



Offshore and Marine Cables



exZtelligent 606

exZtelligent MAR

GENFIRE 606

GENFIRE MAR GENFIRE HCF

FOREWORD

ONE COMPANY CONNECTING THE WORLD
POWERFUL PRESENCE · PRODUCTS ·
PERFORMANCE · PEOPLE

General Cable has been a wire and cable innovator for over 170 years, always dedicated to connecting and powering people's lives. With more than 11,000 employees and \$6 billion in revenues, we are one of the largest wire and cable manufacturers in the world.

Our company serves customers through a global network of 38 manufacturing facilities in our core operating regions and has worldwide sales representation and distribution. We are dedicated to the production of high-quality aluminium, copper and fibre optic wire and cable and systems solutions for the energy, construction, industrial, specialty and communications sectors. With a vast portfolio of products to meet thousands of diverse application requirements, we continue to invest in research and development in order to maintain and extend our technology leadership by developing new materials, designing new products, and creating new solutions to meet tomorrow's market challenges.

In addition to our strong brand recognition and strengths in technology and manufacturing, General Cable is also competitive in such areas as distribution and logistics, sales and customer service. This combination enables us to better serve our customers and as they expand into new geographic markets.

General Cable offers our customers all the strengths and value of a large company, but our people give us the agility and responsiveness of a small one. We service you globally or locally.

Visit our Website at www.generalcable.com



SYMBOLS



FLAME RETARDANT SINGLE WIRE
IEC 60332-1-2



FLAME RETARDANT BUNCHED
WIRES - IEC 60332-3 (categories A or C)



HALOGEN FREE - IEC 60754-1



LOW ACIDITY AND CORROSIVITY OF EVOLVED
GASES - IEC 60754-2



LOW SMOKE EMISSION - IEC 61034-2



FIRE RESISTANT - IEC 60331



INCREASED FLEXIBILITY



SECTORFLEX



ELECTRO-MAGNETIC INTERFERENCE PROTECTION



MINERAL OIL RESISTANCE



MUD OIL RESISTANCE



UV RADIATION RESISTANCE



WORK AT VERY LOW TEMPERATURE -40 °C



MECHANICAL RESISTANCE



HEAVY DUTY



WATERTIGHT



REDUCED BENDING RADIUS

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INTRODUCTION

OFFSHORE AND MARINE CABLES

In this catalogue General Cable presents its series of shipboard power, control and instrumentation cables for fixed installations on vessels and oil rigs.

The safety of people and equipment is a priority consideration in the design and construction of Exzhellent® and Genfire® cables. They are made from halogen free compounds with a low-acidity, low-corrosive gases and low opacity of fumes evolved during combustion, in accordance with the corresponding IEC standards. They therefore allow for a quick and safe evacuation in the event of fire.

The cables are designed to comply with the strictest non-fire propagation standards and prevent the generation of secondary sources of fire even in circumstances of high cable concentration in unfavourable conditions.

Genfire® cables are fire resistant designs that feature not only the above properties, but are also capable to continue providing service even when directly affected by fire. Their use in safety services enables the systems to continue working even in situations of fire.

Reinforced cables feature copper braiding that provides good mechanical protection and may also be used in specific applications such as shielding.

Exzhellent® and Genfire® cables may be used in extreme climates, principally because of their resistance to very low temperatures.

This catalogue also includes specific designs for energy cables used in circuits with variable frequency drives (VFD).

The cables described in this catalogue have been designed in accordance with the following standards and specifications.

TECHNICAL SPECIFICATIONS & STANDARDS

IEC 60092-350

Electrical installations in ships.

IEC 60092-352

Choice and installation of electrical cables.

IEC 60092-353

Single and multicore non-radial field power cables with extruded solid insulation for rated voltages 1 kV and 3 kV.

IEC 60092-354

Single and three-core power cables with extruded solid insulation for rated voltages 6 kV up to 30 kV.

IEC 60092-360

Insulating and sheathing materials for shipboard and offshore units. Power, control, instrumentation and telecommunication cables.

IEC 60092-376

Cables for control and instrumentation circuits 150/250 V.

IEC 60228

Conductors of insulated cables.

IEC 60331-1

Circuit integrity – Test method for a temperature of at least 830 °C for cables rated up to 0.6/1 kV and with an overall diameter exceeding 20 mm.

IEC 60331-2

Circuit integrity – Test method for a temperature of at least 830 °C for cables rated up to 0.6/1 kV and with an overall diameter not exceeding 20 mm.

IEC 60331-21

Circuit integrity – Procedures and requirements for cables up to and including 0.6/1 kV.

IEC 60332-3-22 cat. A

Tests on bunched electric cables under fire conditions, fire retardant.

IEC 60754-1

Determination of the amount of halogen acid gas.

IEC 60754-2

Determination of degree of acidity and corrosivity of gases.

IEC 61034-2

Measurement of smoke density.

IEC 61892-4

Mobile and fixed offshore units – Electrical Installations.

IEEE 1580

IEEE recommended practice for marine cable for use on shipboard and fixed or floating facilities - EMI shielding for those cables for VFD application.

NEK TS 606

Cables for offshore installation – Halogen-free and/or Mud resistant – Technical specification.

APPROVALS

Cables featured in this catalogue are covered with "Type Approvals" from main classification societies:



BUREAU VERITAS



PRODUCT CLASSIFICATION

Depending on their use, the cables are distributed into the following groups:

LOW VOLTAGE POWER CABLES (IEC 60092-352 and NEK TS 606)

- Power cables suitable for operation at up to and including 0.6/1 kV.
- Constructions up to and including 4 cores. Coloured core identification.
- Non armoured and armoured with copper wire braid.
- Available designs with Mud resistance and/or fire resistance (circuit integrity).
- Available designs for variable frequency drives (VFD).

MEDIUM VOLTAGE CABLES (IEC 60092-354 and NEK TS 606)

- Cables for power distribution in voltages of 3.6/6 to 18/30 kV.
- Armoured with copper wire braid.
- Available designs with Mud resistance.
- Available designs for variable frequency drives (VFD).
- Available designs for HydroCarbon Fire (HCF) resistance.

CONTROL CABLES (IEC 60092-353, IEC 60092-376 and NEK TS 606)

- Available from 2 to 37 cores. Identification by numbering.
- Armoured with copper wire braid.
- Available designs with Mud resistance and/or fire resistance (circuit integrity).

INSTRUMENTATION CABLES (IEC 60092-376 and NEK TS 606)

- Multiunit (pairs or triples), with rated voltage 150/250 V.
- Cores identified by colours and numbered tape in each unit.
- Two pair cable without individual screen has a star/quad composition.
- Individual and/or overall screening of units using copper or aluminium/polyester tape and drain wire.
- Cable screening using copper wire braid.

CONSTRUCTION

On the basis of the above-mentioned IEC standards, and reviewing the formation of the cables, we have:

CONDUCTOR

Tinned or untinned annealed copper in accordance with IEC 60092-350:

Class 2: Rigid conductors with 7 wire formation (in small cross-sections) or concentric layers in big cross sections.

Class 2 Flexible: As alternative to Class 2 when flexibility is required but complying with Class 2 conductivity.

Class 5: Flexible conductors bunched or multibunched configurations.

In general class 2 conductors are used more often, but the use of class 5 is growing, due to their easier handling and installation.

Tin plated conductor is used to offer greater protection of connections against oxidation or corrosion in heavy marine environments.

For marine cables, conductors with a 50 mm² and above are made with Sectorflex® technology.

SECTORFLEX®



- More flexible, more manageable
- More compact, smaller diameter, lighter weight
- More cable per coil
- Same section and transport capacity as circular section
- Use of conventional terminals

See the following table for cross-sections and standard compositions:

CROSS SECTIONAL AREA

Cable type	Voltage (kV)	Area of conductor (mm ²)	IEC Standard
Power Low Voltage	1	1.5 ÷ 300	60092-353
	3	10 ÷ 300	
Instrumentation	250 V	0.5 ÷ 2.5	60092-376
	6	10 ÷ 630	
	10	16 ÷ 630	
	15	25 ÷ 630	
	20	35 ÷ 630	
	30	50 ÷ 630	

The cross section area for the earth continuity conductors shall comply the following table:

	Arrangement of earth conductor	Cross section Q of associated current carrying conductor (one phase or pole) mm ²	Minimum cross-section of earth conductor
1	i) Insulated earth conductor in cable for fixed installation.	Q ≤ 16	Q
	ii) Copper braid of cable for fixed installation.		
	iii) Separate, insulated earth conductor for fixed installation in pipes in dry accommodation spaces, when carried in the same pipe as the supply cable.		50 % of the current-carrying conductor, but not less than 16 mm ²
	iv) Separate, insulated earth conductor when installed inside enclosures or behind covers or panels, including earth conductor for hinged doors.		
2	Uninsulated earth conductor in cable for fixed installation, armour or copper braid and in metal-to-metal contact with this.	Q ≤ 2.5	1 mm ²
		2.5 < Q ≤ 6	1.5 mm ²
		Q > 6	Not permitted
3	Separately installed earth conductor for fixed installation other than specified in iii) and iv).	Q < 2.5	Same as current-carrying conductor subject to min. 1.5 mm ² for stranded earthing connection or 2.5 mm ² for unstranded earthing connection.
		2.5 < Q ≤ 120	50 % of the current-carrying conductor, but not less than 4 mm ² .
		Q > 120	70 mm ²
4	Insulated earth conductor in flexible cable.	Q ≤ 16	Same as current-carrying conductor.
		Q > 16	50 % of the current-carrying conductor, but minimum 16 mm ² .

NUMBER OF CORES

Cable type	Number of cores	Standard
Low Voltage Power	1 to 5 cores	IEC 60092-353, NEK 606
Control cables	2, 4, 7, 12, 19, 27, 37 cores	IEC 60092-376, NEK 606
Instrumentation	1, 2*, 4, 7, 10, 14, 19, 24, 30, 37 pairs or triples	IEC 60092-376, NEK 606
Medium Voltage Power	1 or 3 cores	IEC 60092-354, NEK 606

(*) Two pair cable is a star-quad composition, cores are diametrically opposed to make the pairs.

INSULATION MATERIALS

Insulation materials are specified to standard IEC 60092-360. The ones used in the current catalogue are:

XLPE (cross-linked polyethylene). Cross-linked compound without heat distortion and with excellent electrical and mechanical properties.

EPR (ethylene propylene rubber). A cross-linked elastomer, it has almost no distortion due to the action of heat. It provides greater flexibility to the cable. Especially suitable if the sheath has to be a cross-linked compound.

HEPR (hard grade ethylene propylene rubber). Improved EPR compound bringing better performance both in mechanical and electrical properties. This material provides insulation thicknesses equivalent to the XLPE ones.

Type of insulating compound	Abbreviated designation	Maximum rated conductor temperature (°C)	
		Normal operation	Short-circuit
Cross-linked elastomer			
Ethylen-propylene rubber or similar (EPM or EPDM) Halogen free	EPR	90	250
High modulus of hard grade halogen-free ethylene propylene rubber	HEPR	90	250
Cross-linked polyethylene	XLPE	90	250

SHEATHING MATERIALS

The sheath of the cables protects the set of cores from the mechanical or environmental aggressions they may suffer. Mechanical aggressions are mainly abrasions from the dragging of the cables and tears at angles of the tubes and occur during the installation, while the environment aggressions (heat, presence of oils or aggressive agents) will affect the cable throughout its working life.

Halogen-free thermoplastic compound SHF 1.

Thermoplastic polyolefin halogen-free compound that releases neither toxic nor corrosive gases in the event of fire. Weak resistance to oils and fuels.

Halogen-free cross-linked compound SHF 2.

It has the advantages of being a heat-stable compound which does not release toxic gases or opaque smokes in case of fire (see annex 2), and it has good resistance to oils, fuel and solvents. Good resistance to mechanical demands.

Halogen-free Mud-resistant cross-linked compound SHF Mud.

The same characteristics as per material type SHF 2 adding Mud resistance according to NEK TS 606.

Type of sheathing compound	Abbreviated designation
Cross-linked elastomer	
Compound based on copolymer of ethylene and vinyl acetate (EVA)	SHF 2
Compound based on copolymer of ethylene and vinyl acetate (EVA) with enhanced oil-resistant properties – Halogen-free	SHF Mud
Compound based on polyolefins – Halogen-free	SHF 1

ARMOURING

The armour provides mechanical protection to the cable. The copper in tinplated version being used in this case.

The armour performs a dual function as it behaves as armour but also as a screen, when necessary and possible.

Type	Materials
BRAID	Tinned or untinned annealed copper

SCREENING

In low voltage cables, the screens are the elements which provide the cable protection against electromagnetic fields. This is an element especially suitable for cables for instrumentation, control and transmission of signals due to their sensitivity to radiation which can distort the signal transmitted by the cable. To protect the cable from electromagnetic perturbations it is necessary to screen the group of conductors (protection from external disturbance) or each one of the pairs or triples (electromagnetic fields from other elements of the same cable).

According to the standard, screens can be either braid or laminated polyester tape.

In all designs of 2, 3 and 4 cores, the screen cross-section has been defined according to the criteria set in standard IEC 60092-352 Table 2, so it can be used as an earthing conductor.

In armoured cables, the use of copper wire braid armour, when properly earthed, allows to use it as a overall screen.

Type	Materials
BRAID	Tinned or untinned annealed copper
TAPE	Cu or Al / Polyester

ELECTROMAGNETIC COMPATIBILITY (EMC)

When General Cable products are installed in accordance with IEC 60533, they fulfil the requirements for Electro-Magnetic Compatibility.

VFD cable types for Offshore applications comply with the requirements set in paragraphs 5.18.11.2.1, .2 and .3 of IEEE 1580:

- Dielectric constant of insulation below 3.0
- Total cross-section of grounding conductors complies with Table 3 of IEEE 1580 (0.6/1 kV cables) and Table 23.1 of UL 1072 (1.8/3 kV or higher)
- Screen coverage 100 % according to 5.14.2 of IEEE 1580

FIRE PERFORMANCE OF CABLES

All cables or insulated wiring shall meet the requirements for flame spread as given in: IEC 60332-1 and IEC 60332-3-22.

NOTE: It cannot be assumed that, because a cable or an insulated wire meets the requirements of IEC 60332-1, a bunch of similar cables or insulated wires will behave in a similar manner. The flame spread performance of bunched cables is assessed by the requirements of IEC 60332-3-22. This performance requirement (i.e. for cables mounted vertically in a touching formation) has been chosen to best reflect the installation conditions generally observed on board ships. Experience has shown that the test for the flame spread of cables installed vertically is adequate for horizontal installations, all other parameters being generally the same.

For systems required to maintain electrical circuit integrity under fire conditions, e.g. for fire alarm, fire detection, fire extinguishing services, remote stopping and similar control circuits, the cables shall meet the requirements of IEC 60331-21. Requirements for smoke emission and acid gas evolution shall be considered, and where applicable the cables evaluated in accordance with the following test methods, cables shall meet the requirements specified in the individual product standard: IEC 61034-2Part 2; IEC 60754-1Part 1 and IEC 60754-2 Part 2.

FLAME RETARDANT (IEC 60332-1-2)

A 1 kW flame in contact with the cable sheath for a time established in the standard should not spread. The cable will not guarantee a fire caused by a minor incident or by an external heat source with which it comes into accidental contact.

FLAME RETARDANT (IEC 60332-3-22)

A fire unconnected with the cable may affect a wiring system and become more serious if the system is oriented vertically, thus allowing the circulation of air and the creation of a chimney effect. When the decomposition temperature of the organic materials is reached, exothermic combustion of the cables occurs and the fire spreads. The insulation compounds used in Exhellent® and Genfire® cable sheaths are designed to hinder exothermic reaction. To simulate this situation, the test involves the application of powered air and a 20-kW gas burner to a bundle of cables arranged to simulate a vertical wiring system. In these conditions, the burner directly burns the cables during 40 minutes. After extinguishing the burner and the cables stop burning, the burnt length of the cable must not exceed 2.5 metres. The prescribed standard applicable in the ship industry is IEC 60332, part. 3-22, cat A. Category A prescribes the maximum volume of inflammable material (seven litres per metre).



FIRE RESISTANCE (IEC 60331)

IEC 60331 defines the test conditions applied to a cable that must remain in service in safety circuits even when directly affected by a fire and when its organic parts are decomposing.

In the test, the cable is subject to the action of a burner at a minimum flame temperature of 830 °C for a period of 90 minutes, during and at the end of which the cable must remain in service.

HALOGEN-FREE AND LOW SMOKE EMISSION CABLES

Cables subject to fire, depending on the materials of which they are made, may release gases that are toxic for people's health or corrosive and therefore hinder the proper operation and preservation of the electronic and IT components in the vicinity. Opaque smoke that prevents a view of the escape routes from the affected sites may also develop.

To minimise these effects, General Cable has developed the Exhellent® series cables that eliminate harmful emissions of halogenated and toxic gases (IEC 60754-1 and 60754-2), substantially reduce opaque smoke and thus facilitate the evacuation of people (IEC 61034-2).



IEC 60332-3-22 (cat. A)



IEC 60331-1



IEC 60754



IEC 61034

SHEATHING MATERIALS

ANNEX 1

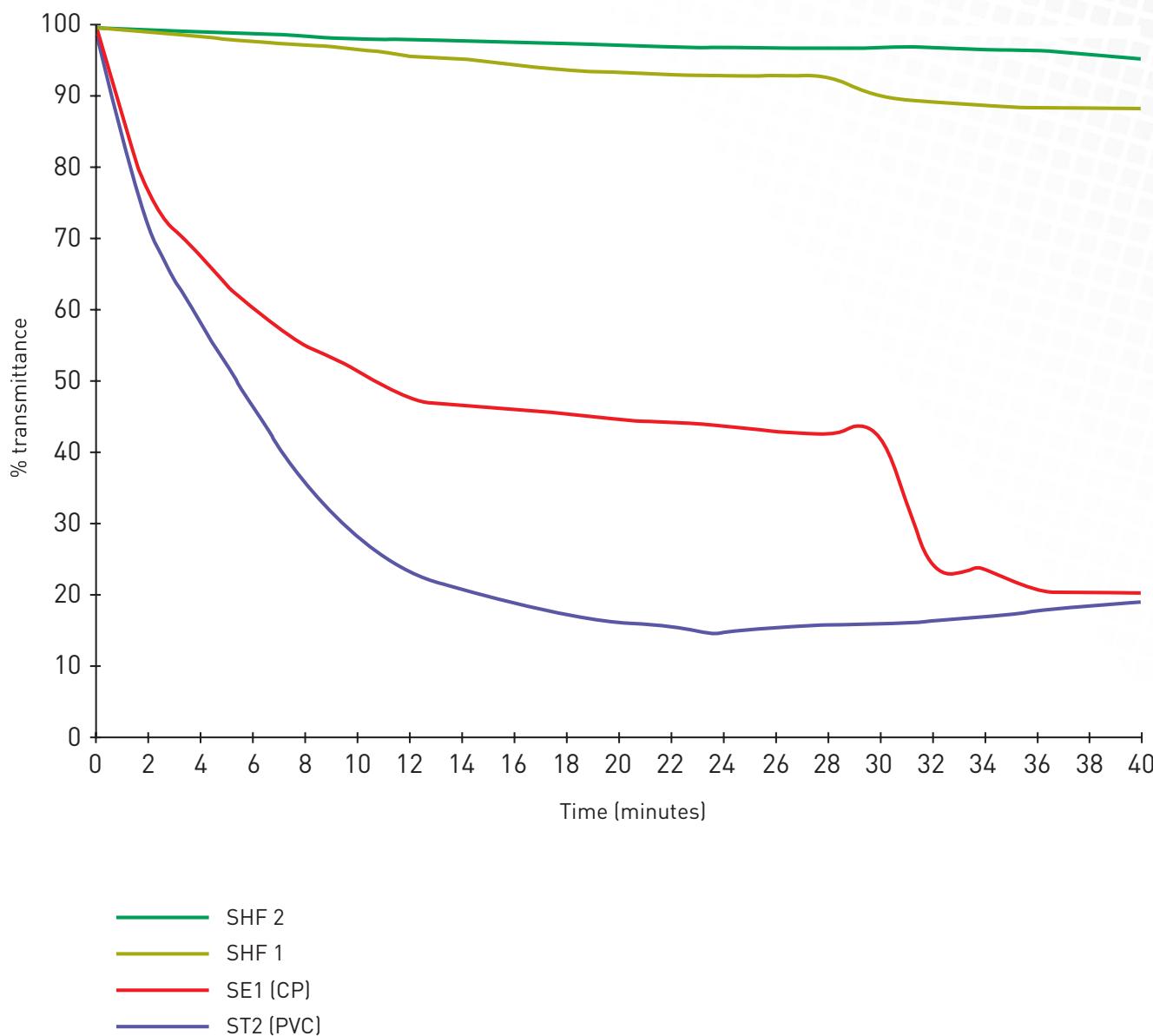
Sheathing material	Standards	Units	Halogen-free Cross-linked	Halogen-free Cross-linked Mud Resistant	Halogen-free Thermoplastic
			SHF 2	SHF Mud	SHF 1
Index oxygen limit	ASTM D-2863	%	36	36	35
Temperature index	ASTM-D-2863	°C	290	290	280
Halogen content	IEC 60754-1	%	<0.5	<0.5	<0.5
Corrosivity index	IEC 60754-2	pH	>4.3	>4.3	>4.3
Smoke density	IEC 61034-2	%	>60	>60	>60

MATERIAL MECHANICAL CHARACTERISTICS

Sheathing material	Standards	Units	Halogen-free Cross-linked	Halogen-free Cross-linked Mud Resistant	Halogen-free Thermoplastic
			SHF 2	SHF Mud	SHF 1
Unaged Tensile Strength	IEC 60092-360	N/mm ²	9.0	9.0	9.0
Unaged Elongation at Break		%	120	120	120
Ageing in air over	IEC 60092-360		7 d. @ 120 °C	7 d. @ 120 °C	7 d. @ 100 °C
Oil Resistance / Mud	IEC 60092-360 NEK TS 606		IRM 902 24h @ 100 °C IRM 903 7 d. @ 100 °C Calcium Bromide Brine 56 d. @ 70 °C Carbo Sea 56 d. @ 70 °C	IRM 902 24h @ 100 °C IRM 903 7 d. @ 100 °C Calcium Bromide Brine 56 d. @ 70 °C Carbo Sea 56 d. @ 70 °C	-
Minimum Low Temp. Operation	IEC 60811		-40 °C	-20 °C	-40 °C

SMOKE EMISSION CHARACTERISTICS

ANNEX 2



TECHNICAL INFORMATION

CABLE DESIGNATION

Cable designation is based in the letter code described in the tables below:

OFFSHORE CABLES (NEK TS 606)

Materials	Insulation	Inner covering	Armour / Shield	Outer Sheath	Additional characteristics
Fire resistant tape +insulation	B				
Ethylene-propylene rubber (EPR)	R				
Unit screening			(i) Individual (c) Overall		
Halogen-Free compound		F			
Tinned copper wire braid			O		
Cross-linked compound SHF 2 or SHF Mud				U	
Variable frequency drives					-VFD
HydroCarbon Fire resistance					-HCF

MARINE CABLES

Materials	Insulation	Inner covering	Armour / Shield	Outer Sheath	Additional characteristics
Mica tape	-M				
Cross-linked polyethylene (XLPE)	R				
Ethylene-propylene rubber (EPR) / High modulus EPR (HEPR)	D				
Radial field	H				
Bare copper wire braid			C4		
Bronze wire braid			Zb		
Unit screening			(i) Individual (c) Overall	U	
Thermoplastic polyolefin SHF 1		Dt		Dt	
Variable frequency drives					-VFD

The cable designation also includes the number and size of cores (NxS), substituting the symbol "x" by the symbol "G" when an earth core is included. In two, three or four core cables armoured power, the NxS/E terminology is used to illustrate the cables in which the copper wire braid armour can be employed as the earth conductor. In this case, the cross sectional area of the braid (E) is equal or greater than 50 % of the phase conductors cross-section.

CURRENT RATINGS

General Cable recommends ratings according to Table A.4 of IEC 60092-352, based on conductor temperature of 90 °C and ambient temperature of 45 °C. As an alternative, it is possible to use the current ratings included in standard IEC 61892-4 or in the regulations of classification societies.

The procedure for cable selection employs rating factors to adjust the current carrying capacities for different ambient temperatures, for the mutual heating effects of grouping with other cables, methods of installation and short circuit time duty. Guidance on the use of these methods are given in IEC 60092-352 and IEC 61892-4.

These carrying current capacities in continuous service must be adjusted for ambient temperature other than 45 °C according the following table:

Maximum rated conductor temperature (°C)	Ambient air temperature (°C)									
	35	40	45	50	55	60	65	70	75	80
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

CABLE OVERALL DIAMETER TOLERANCE

OFFSHORE CABLES

Nominal overall diameter (mm)	Tolerance (mm)				
	Low voltage		Medium voltage		
< 20	-0.5	+1.0	-1.0	+2.0	
20 - 29.9	-0.5	+2.0	-1.0	+2.5	
30 - 39.9	-0.75	+2.5	-1.5	+3.0	
40 - 49.9	-0.75	+3.0	-1.5	+4.0	
50 - 59.9	-0.75	+3.5	-1.5	+4.5	
60 - 69.9	-1.0	+4.0	-1.5	+5.0	
70 - 79.9	-1.0	+5.0	-1.5	+6.0	
> 79.9	-1.0	+5.5	-1.5	+6.5	

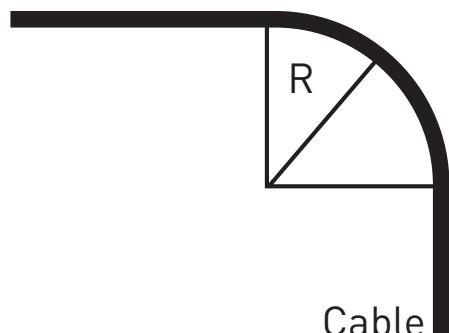
Number of pairs or triples	Tolerance (mm)		
	Instrumentation		
Pairs	<5	-1.5	+1.5
	6-10	-2.0	+1.5
	>10	-2.5	+2.5
Triples	≤ 4	-1.5	+1.5
	5 - 8	-1.5	+2.0
	>8	-2.5	+2.5

MARINE CABLES

Overall diameter (mm)	Tolerance (mm)		
	Single core cables		Multi core cables
<20	-0.5	+1.0	-0.5
20 - 29.9	-0.5	+1.5	-0.5
30 - 39.9	-0.75	+2.0	-0.75
40 - 49.9	-0.75	+2.5	-0.75
50 - 59.9	-0.75	+3.0	-0.75
60 - 69.9	-1.0	+3.5	-1.0
70 - 79.9	-1.0	+4.0	-1.0
>79.9	-1.0	+4.5	-1.0

MINIMUM BENDING RADIUS (IEC 60092-352 AND IEC 61892-4)

R: minimum bending radius; a lower radius does not guarantee cable integrity as it may have suffered potential damage that shortens its useful life.



The minimum handling & installation temperature for all type of cables (Low Voltage and Medium Voltage) is -15 °C. General Cable recommends a minimum cable temperature of 0 °C for an easier and safer handling & installation.

Prior to performing the installation, if the cables have been stored outdoors at temperatures below 0 °C, the cables should be tempered indoors for a minimum of 24 hours at a temperature equal or above 0 °C, in order to assure that the inner layers of the cable are not below 0 °C.

The internal bending radius for the installation of cables shall be as recommended to the type of cable chosen and shall not be less than the values given in the following table:

UP TO AND INCLUDING 1.8/3 kV

Insulation	Covering	Nominal overall diameter (D)	Minimum bending radius during and after installation
Thermoplastic or Cross-linked	Unbraided	<25 mm	4 D ¹
		>25 mm	6 D
Circular copper conductors	Metal braid screened or armoured	Any	6 D
	Composite polyester/metal tape screened units or overall tape screening	Any	8 D
Flexible sector-shaped copper conductor	Any	Any	6 D ²

¹ 6D for circuit integrity cables

² Enhanced values compared to IEC 60092-352 and guaranteed by General Cable

HIGHER THAN 1.8/3 kV

Cable type	Minimum bending radius	
	During installation	After installation*
Single-core	20 D	12 D
3 core cable	15 D	9 D

*Also applicable when the bend is carefully controlled using a former or adjacent to joints and terminations.

Maximum pulling force, $F = 50 \times S$ in Newtons, where S is the addition of the cross-sectional areas of all the cable's main cores in mm^2 .

CORE IDENTIFICATION

POWER CABLES UP TO 1.8/3 kV

Number of cores	Phase	Neutral	Earth
2	●	●	
2+E	●	●	○
3	●	●	●
3+E	●	●	○
4	●	●	●
4+E	●	●	○

POWER CABLES OF 3.6/6 kV AND ABOVE



MULTI-CONDUCTOR CONTROL CABLES OF 250 V OR 0.6/1 kV

OFFSHORE	"n"	1	2	3	4	n
MARINE	"n"	1	2	3	4	n

"n" equals the correlative conductor number

INSTRUMENTATION CABLES OF 150/250 V

Pair	n	n	
Triple	n	n	n
Two pairs overall screen	1 2 2 1		

"n" equals number of each pair or triple.

Grey sheath.

Intrinsically safe circuits: Blue sheath.

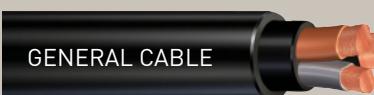
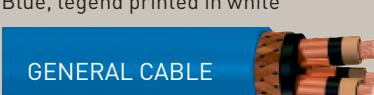
Two pair cables overall screened are laid up with diametrically opposite cores.

Other colour code and cable identification can be offered upon request.

CABLE IDENTIFICATION

All cables have the following legend marked on the sheath:

"General Cable + (cable type)+ (voltage) kV + (composition) mm² + PN: (article code) + (basic design standard) + LOT: (lot number)
+ (meter marking)"

Voltage	Cable sheath colour
Control and Instrumentation 250 V	Grey, legend printed in black 
Low Voltage Power and Control 0.6/1 kV	Black, legend printed in white 
Medium Voltage Power ≥6 kV	Red, legend printed in black 
Intrinsically safe	Blue, legend printed in white 

SELECTION GUIDE

OFFSHORE CABLES

GENERAL SERVICE CABLES

	Rated voltage	Type	Armoured	Mud resistant	Series	Page
Low Voltage Power	0.6/1 kV	P1 RFOU	x		1489 2289	30
		P1/P8 RFOU	x	x	7476 2470	34
		P18 RU			7500 2480	38
		P18 RU MUD		x	7626 2326	42
Medium Voltage Power	3.6/6 kV	P2 RFOU	x		7940	46
	6/10 kV	P3 RFOU	x		7946	46
	8.7/15 kV	P4 RFOU	x		7947	46
	12/20 kV	P19 RFOU	x	x	7948	46
	18/30 kV	P20 RFOU	x	x	7949	46
	3.6/6 kV	P2/P9 RFOU	x	x	7484	50
	6/10 kV	P3/P10 RFOU	x	x	7485	50
	8.7/15 kV	P4/P11 RFOU	x		7486	50
	12/20 kV	P19/P21 RFOU	x	x	7487	50
	18/30 kV	P20/P22 RFOU	x	x	7489	50
Instrumentation	150/250 kV	S1 RFOU (i)	x		4506 4507	54
		S2 RFOU (c)	x	x	4508 4509	58
		S11 RU (i)			4510 4511	62
		S12 RU (c)			4512 4513	66
		RFOU (i)	x		4522 4523	70
		S1/S5 RFOU (i)	x	x	4273 4283	74
		S2/S6 RFOU (c)	x	x	4274 4284	78
		S11 RU (i) MUD		x	4280 4302	82
		S12 RU (c) MUD		x	4303 4304	86
		RFOU (i) (c) MUD	x	x	4317 4318	90
Switchboard and earthing wire	0.6/1 kV	P15 UX			7477	94

FIRE RESISTANT CABLES FOR SAFETY CIRCUITS (IEC 60331)

	Rated voltage	Type	Armoured	Mud resistant	Series	Page
Low Voltage Power	0.6/1 kV	P5 BFOU	x		1492 2292	96
		P5/P12 BFOU	x	x	7474 2474	100
		P17 BU			7467 2481	104
		P17 BU MUD		x	7624 2024	108
Instrumentation	150/250 kV	S3 BFOU (i)			4514 4515	112
		S4 BFOU (c)			4516 4517	116
		S13 BU (i)			4518 4519	120
		S14 BU (c)			4520 4521	124
		BFOU (i) (c)	x		4524 4525	128
		S3/S7 BFOU (i)	x	x	4277 4287	132
		S4/S8 BFOU (c)	x	x	4278 4288	136
		S13 BU (i) MUD		x	4319 4320	140
		S14 BU (c) MUD		x	4328 4330	144
		BFOU (i) (c) MUD		x	4332 4333	148

CABLES FOR VARIABLE FREQUENCY DRIVES (VFD)

	Rated voltage	Type	Armoured	Mud resistant	Series	Page
Low Voltage Power	0.6/1 kV	RFOU-VFD-MUD	x	x	7490	152
	1.8/3 kV		x	x	7977	152
Medium Voltage Power	3.6/6 kV	RFOU-VFD	x	x	7941	154
	6/10 kV		x	x	7942	154
	8.7/15 kV		x	x	7943	154
	12/20 kV		x	x	7944	154
	18/30 kV		x	x	7945	154

CABLES WITH RESISTANCE TO HYDROCARBON FIRE (HCF)

	Rated voltage	Type	Armoured	Mud resistant	Serie	Page
Medium Voltage Power	6/10 kV	RFOU-HCF	x		1N01	156
	8.7/15 kV		x		1N02	156
	12/20 kV		x		1N03	156
	18/30 kV		x		1N04	156

MARINE CABLES

GENERAL SERVICE CABLES

	Rated voltage	Type	Characteristics	Series	Page
Low Voltage Power	0.6/1 kV	RDt	Non armoured	7783	164
		RDtC4Dt	Armoured	7784	168
		RC4Dt	Armoured	7596	172
Medium Voltage Power	3.6/6 kV	RHDtC4Dt	Armoured	7785	176
	6/10 kV			7786	176
	8.7/15 kV			7787	176
	12/20 kV			7788	176
	18/30 kV			7791	176
Control	0.6/1 kV	RDt	Non armoured	2655	180
		RDtC4Dt	Armoured	2656	182
		RC4Dt	Armoured	2501	184
	150/250 V	RDt	Non armoured	2657	186
		RC4Dt	Armoured and screened	2659	188
		RDtC4Dt	Armoured and screened	2660	190
		R02Dt	Screened	2658	192
		R02Dt	Screened	4098	194
Instrumentation	150/250 V	R01Dt	Screened	4099	196
		RC4Dt	Armoured and screened	4100	198
		RDtC4Dt	Armoured and screened	4101	200
		R01C4Dt	Armoured and screened	4102	202
		R01DtC4Dt	Armoured and screened	4104	204
Switchboard and Earthing wire	0.6/1 kV	UX	Unsheathed	7503 7504	206

FIRE RESISTANT CABLES FOR SAFETY CIRCUITS (IEC 60331)

	Rated voltage	Type	Characteristics	Series	Page
Low Voltage Power	0.6/1 kV	RDt-M	Non armoured	7789	208
		RDtC4Dt-M	Armoured	7790	212
Control	0.6/1 kV	RDt-M	Non armoured	2661	216
	150/250 V	RC4Dt-M	Armoured and screened	2663	218
Instrumentation	150/250 V	RC4Dt-M	Screened	4046 4103	220
		R01C4Dt-M	Armoured and screened	4043 4113	222

CABLES FOR SYSTEMS WITH VARIABLE FREQUENCY DRIVES (VFD)

	Rated voltage	Type	Characteristics	Series	Page
Low Voltage Power	0.6/1 kV	RO2C4Dt-VFD	Armoured and screened	7792	224
		RO2C4DtZbDt-VFD	Armoured and screened	7793	226
Medium Voltage Power	3.6/6 kV	DHDtO2C4Dt-VFD	Armoured and screened	7867	228
	6/10 kV			7868	228



CABLES FOR OFFSHORE INSTALLATIONS

LOW VOLTAGE POWER

- 30** EXZHELLENT® 606 P1 RFOU
- 34** EXZHELLENT® 606 P1/P8 RFOU
- 38** EXZHELLENT® 606 P18 RU
- 42** EXZHELLENT® 606 P18 RU MUD

MEDIUM VOLTAGE POWER

- 46** EXZHELLENT® 606 P2, P3, P4, P19, P20 RFOU
- 50** EXZHELLENT® 606 P2/P9, P3/P10, P4/P11, P19/21, P20/P22 RFOU

INSTRUMENTATION

- 54** EXZHELLENT® 606 S1 RFOU (i)
- 58** EXZHELLENT® 606 S2 RFOU (c)
- 62** EXZHELLENT® 606 S11 RU (i)
- 66** EXZHELLENT® 606 S12 RU (c)
- 70** EXZHELLENT® 606 RFOU (i)
- 74** EXZHELLENT® 606 S1/S5 RFOU (i)
- 78** EXZHELLENT® 606 S2/S6 RFOU (c)
- 82** EXZHELLENT® 606 S11 RU (i) MUD
- 86** EXZHELLENT® 606 S12 RU (c) MUD
- 90** EXZHELLENT® 606 RFOU (i) (c) MUD

SWITCHBOARD AND EARTHING WIRE

- 94** EXZHELLENT® 606 P15 UX

FIRE RESISTANT LOW VOLTAGE POWER

- 96** GENFIRE® 606 P5 BF0U
- 100** GENFIRE® 606 P5/P12 BF0U
- 104** GENFIRE® 606 P17 BU
- 108** GENFIRE® 606 P17 BU MUD

FIRE RESISTANT INSTRUMENTATION

- 112** GENFIRE® 606 S3 BF0U (i)
- 116** GENFIRE® 606 S4 BF0U (c)
- 120** GENFIRE® 606 S13 BU (i)
- 124** GENFIRE® 606 S14 BU (c)
- 128** GENFIRE® 606 BF0U (i) (c)
- 132** GENFIRE® 606 S3/S7 BF0U (i)
- 136** GENFIRE® 606 S4/S8 BF0U (c)
- 140** GENFIRE® 606 S13 BU (i) MUD
- 144** GENFIRE® 606 S14 BU (c) MUD
- 148** GENFIRE® 606 BF0U (i) (c) MUD

VARIABLE FREQUENCY DRIVES LOW VOLTAGE POWER

- 152** EXZHELLENT® 606 RFOU-VFD MUD

VARIABLE FREQUENCY DRIVES MEDIUM VOLTAGE POWER

- 154** EXZHELLENT® 606 RFOU-VFD MUD

HYDROCARBON FIRE RESISTANT MEDIUM VOLTAGE POWER

- 156** GENFIRE® HFC P30, P31, P32, P33 RFOU-HCF

STANDARDS:**CONSTRUCTION:** IEC 60092-353 / IEC 60092-360 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free compound.

4. ARMOUR:

Tinned copper wire braid.

5. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes. Oil resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Voltage drop cos μ = 1.0 (V/A·km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
1489106	1x1.5	5.5	8.4	110	50	21	21.74	26.94	12.2	15.6	0.553	0.174
1489107	1x2.5	5.8	8.7	125	52	28	13.53	16.70	7.56	9.64	0.515	0.162
1489108	1x4	6.3	9.2	150	55	38	8.461	10.38	4.70	5.99	0.480	0.151
1489109	1x6	6.9	10.0	180	60	49	5.642	6.869	3.11	3.97	0.451	0.142
1489110	1x10	7.8	10.9	230	65	67	3.387	4.064	1.84	2.35	0.415	0.130
1489111	1x16	8.7	11.8	300	71	91	2.176	2.562	1.16	1.48	0.388	0.122
1489112	1x25	10.2	13.5	415	81	117	1.419	1.621	0.734	0.937	0.373	0.117
1489113	1x35	11.2	14.5	525	87	147	1.050	1.168	0.529	0.675	0.354	0.111
1489114	1x50	12.8	16.7	710	100	180	0.804	0.864	0.391	0.499	0.346	0.109
1489115	1x70	14.2	18.2	930	109	233	0.584	0.596	0.270	0.345	0.326	0.102
1489116	1x95	16.3	20.6	1,230	124	285	0.448	0.431	0.195	0.249	0.318	0.100
1489117	1x120	18.0	22.3	1,505	134	333	0.372	0.340	0.154	0.197	0.305	0.096
1489118	1x150	19.5	24.1	1,780	145	386	0.321	0.278	0.126	0.162	0.302	0.095
1489119	1x185	21.6	26.3	2,175	158	444	0.273	0.221	0.100	0.129	0.296	0.093
1489120	1x240	24.4	29.4	2,795	176	528	0.229	0.168	0.0762	0.099	0.288	0.090
1489121	1x300	27.0	32.1	3,420	193	612	0.200	0.134	0.0607	0.0802	0.283	0.089
1489122	1x400	30.4	36.1	4,415	217	716	0.176	0.105	0.0475	0.0641	0.282	0.089
1489123	1x500	34.4	40.3	5,610	242	823	0.155	0.081	0.0369	0.0515	0.275	0.086
1489124	1x630	39.0	45.3	7,085	272	947	0.138	0.063	0.0286	0.0423	0.269	0.085
1489205	2x1	8.6	11.7	215	70	13	37.28	46.41	18.2	23.2	0.395	0.124
1489206	2x1.5	8.9	12.0	230	72	23	25.04	31.11	12.2	15.6	0.384	0.121
1489207	2x2.5	9.7	13.0	265	78	31	15.56	19.28	7.56	9.64	0.357	0.112
1489208	2x4	10.6	13.9	335	83	43	9.715	11.99	4.70	5.99	0.335	0.105
1489209	2x6	11.8	15.7	450	94	55	6.463	7.931	3.11	3.97	0.314	0.099
1489210	2x10	13.5	17.4	600	104	75	3.865	4.692	1.84	2.35	0.294	0.092
1489211	2x16	15.3	19.4	855	116	100	2.472	2.958	1.16	1.48	0.280	0.088
1489212	2x25	18.3	22.6	1,155	136	130	1.602	1.872	0.734	0.937	0.278	0.087
1489213	2x35	20.4	24.9	1,435	149	161	1.180	1.349	0.529	0.675	0.269	0.085
1489214	2x50	23.6	28.5	1,940	171	196	0.897	0.997	0.391	0.499	0.264	0.083
1489215	2x70	26.4	31.5	2,555	189	251	0.646	0.689	0.270	0.345	0.251	0.079
1489216	2x95	31.0	36.7	3,570	220	306	0.492	0.497	0.195	0.249	0.250	0.079
1489217	2x120	34.3	40.8	4,485	245	357	0.406	0.393	0.154	0.197	0.244	0.077
1489218	2x150	37.4	44.1	5,330	265	412	0.348	0.321	0.126	0.162	0.242	0.076
1489219	2x185	42.0	48.7	6,155	292	472	0.295	0.255	0.100	0.129	0.242	0.076
1489220	2x240	47.6	54.7	7,735	328	558	0.245	0.194	0.0762	0.099	0.239	0.075
1489221	2x300	53.2	60.7	9,565	364	645	0.213	0.155	0.0607	0.0802	0.237	0.074
1489305	3x1	9.2	12.3	225	74	11	32.29	40.20	18.2	23.2	0.395	0.124
1489306	3x1.5	9.5	12.8	250	77	20	21.68	26.94	12.2	15.6	0.384	0.121
1489307	3x2.5	10.3	13.6	295	82	28	13.47	16.70	7.56	9.64	0.357	0.112
1489308	3x4	11.3	15.2	400	91	37	8.413	10.38	4.70	5.99	0.335	0.105
1489309	3x6	12.6	16.5	495	99	47	5.597	6.869	3.11	3.97	0.314	0.099
1489310	3x10	14.4	18.5	670	111	65	3.347	4.064	1.84	2.35	0.294	0.092
1489311	3x16	16.4	20.7	965	124	87	2.141	2.562	1.16	1.48	0.280	0.088
1489312	3x25	19.6	24.1	1,325	145	110	1.388	1.621	0.734	0.937	0.278	0.087
1489313	3x35	21.9	26.6	1,675	160	137	1.022	1.168	0.529	0.675	0.269	0.085
1489314	3x50	25.3	30.2	2,240	181	167	0.777	0.864	0.391	0.499	0.264	0.083

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
1489315	3x70	28.8	33.9	3,045	203	214	0.559	0.596	0.270	0.345	0.251	0.079
1489316	3x95	33.3	39.3	4,195	236	259	0.426	0.431	0.195	0.249	0.250	0.079
1489317	3x120	36.9	43.2	5,180	259	301	0.352	0.340	0.154	0.197	0.244	0.077
1489318	3x150	40.6	47.6	6,375	286	347	0.302	0.278	0.126	0.162	0.242	0.076
1489319	3x185	45.1	52.6	7,870	316	397	0.256	0.221	0.100	0.129	0.242	0.076
1489320	3x240	53.2	60.7	10,500	364	468	0.213	0.168	0.0762	0.099	0.239	0.075
1489321	3x300	58.8	66.7	12,675	400	540	0.185	0.134	0.0607	0.0802	0.237	0.074
1489405	4x1	10.0	13.3	260	80	10	32.29	40.20	18.2	23.2	0.419	0.132
1489406	4x1.5	10.3	13.7	285	82	20	21.69	26.94	12.2	15.6	0.407	0.128
1489407	4x2.5	11.3	14.6	340	88	28	13.48	16.70	7.56	9.64	0.381	0.120
1489408	4x4	12.4	16.3	465	98	37	8.421	10.38	4.70	5.99	0.358	0.112
1489409	4x6	13.9	18.0	595	108	47	5.605	6.869	3.11	3.97	0.337	0.106
1489410	4x10	15.9	20.0	805	120	65	3.355	4.064	1.84	2.35	0.318	0.100
1489411	4x16	18.1	22.4	1,145	134	87	2.149	2.562	1.16	1.48	0.303	0.095
1489412	4x25	21.7	26.4	1,620	158	110	1.395	1.621	0.734	0.937	0.302	0.095
1489413	4x35	24.3	29.2	2,095	175	137	1.030	1.168	0.529	0.675	0.292	0.092
1489414	4x50	28.5	33.6	2,775	202	167	0.785	0.864	0.391	0.499	0.288	0.090
1489415	4x70	31.9	37.8	3,830	227	214	0.567	0.596	0.270	0.345	0.275	0.086
1489416	4x95	37.0	43.3	5,195	260	259	0.434	0.431	0.195	0.249	0.273	0.086
1489417	4x120	41.4	48.4	6,570	290	301	0.359	0.340	0.154	0.197	0.267	0.084
1489418	4x150	46.8	53.7	8,055	322	347	0.309	0.278	0.126	0.162	0.266	0.084
1489419	4x185	52.2	59.7	10,060	358	397	0.263	0.221	0.100	0.129	0.265	0.083
1489420	4x240	59.0	66.9	12,995	401	468	0.220	0.168	0.0762	0.099	0.262	0.082
1489421	4x300	65.7	74.6	16,275	448	540	0.192	0.134	0.0607	0.0802	0.261	0.082
1489505	5x1	11.0	14.7	330	88	9	32.30	40.20	18.2	23.2	0.428	0.134
1489506	5x1.5	11.4	15.3	370	92	20	21.69	26.94	12.2	15.6	0.416	0.131
1489507	5x2.5	12.4	16.4	445	98	28	13.48	16.70	7.56	9.64	0.390	0.123
1489508	5x4	13.7	17.8	560	107	37	8.424	10.38	4.70	5.99	0.367	0.115
1489509	5x6	15.3	19.4	700	116	47	5.608	6.869	3.11	3.97	0.347	0.109
1489510	5x10	17.6	21.9	970	131	65	3.358	4.064	1.84	2.35	0.327	0.103
1489511	5x16	20.1	24.6	1,330	148	87	2.152	2.562	1.16	1.48	0.313	0.098
1489512	5x25	24.2	29.1	1,940	175	110	1.398	1.621	0.734	0.937	0.311	0.098
1489513	5x35	27.0	32.1	2,520	193	137	1.033	1.168	0.529	0.675	0.301	0.095
1489514	5x50	31.8	37.3	3,420	224	167	0.788	0.864	0.391	0.499	0.297	0.093
1489515	5x70	35.6	41.7	4,615	250	214	0.570	0.596	0.270	0.345	0.284	0.089
1489516	5x95	41.7	48.3	6,340	290	259	0.437	0.431	0.195	0.249	0.282	0.089
1489517	5x120	46.2	53.1	8,035	319	301	0.362	0.340	0.154	0.197	0.276	0.087
1489518	5x150	50.8	58.1	9,745	349	347	0.312	0.278	0.126	0.162	0.275	0.086

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

CONTROL

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	DC conductor resistance at 20 °C (Ohm/km)
2289055	5x1	11.1	14.8	340	89	18.2
2289056	5x1.5	11.5	15.4	375	92	12.2
2289057	5x2.5	12.6	16.5	455	99	7.56
2289075	7x1	12.1	16.0	390	96	18.2
2289076	7x1.5	12.5	16.4	430	98	12.2
2289077	7x2.5	13.6	17.5	525	105	7.56
2289125	12x1	15.9	20.0	570	120	18.2
2289126	12x1.5	16.5	20.8	645	125	12.2
2289127	12x2.5	18.1	22.4	800	134	7.56
2289195	19x1	18.8	23.1	755	139	18.2
2289196	19x1.5	19.5	24.0	870	144	12.2
2289197	19x2.5	21.4	26.1	1,110	157	7.56
2289205	20x1	19.8	24.3	810	146	18.2
2289206	20x1.5	20.5	25.0	915	150	12.2
2289207	20x1.5	22.6	27.3	1,170	164	7.56
2289275	27x1	22.5	27.2	1,000	163	18.2
2289276	27x1.5	23.4	28.1	1,145	169	12.2
2289277	27x2.5	25.8	30.7	1,480	184	7.56
2289375	37x1	25.2	30.1	1,240	181	18.2
2289376	37x1.5	26.2	31.1	1,425	187	12.2
2289377	37x2.5	28.9	34.2	1,880	205	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

exZhellent® 606

EXZHELLENT® 606

P1/P8 RFOU Mud Resistant Armoured Low Voltage
Power and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free compound.

4. ARMOUR:

Tinned copper wire braid.

5. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes. Halogen-free, oil and mud resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
7476106	1x1.5	5.5	8.5	130	51	21	21.74	26.94	12.2	15.6	0.556	0.175
7476107	1x2.5	5.8	8.9	145	53	28	13.53	16.70	7.56	9.64	0.517	0.162
7476108	1x4	6.4	9.4	170	56	38	8.462	10.38	4.70	5.99	0.485	0.152
7476109	1x6	7.2	10.5	210	63	49	5.645	6.869	3.11	3.97	0.459	0.144
7476110	1x10	8.1	11.5	280	69	67	3.390	4.064	1.84	2.35	0.427	0.134
7476111	1x16	9.0	12.4	345	74	91	2.180	2.562	1.16	1.48	0.399	0.125
7476112	1x25	10.5	13.9	465	83	117	1.421	1.621	0.734	0.937	0.380	0.119
7476113	1x35	11.5	15.4	610	92	147	1.054	1.168	0.529	0.675	0.366	0.115
7476114	1x50	13.1	17.4	790	104	180	0.806	0.864	0.391	0.499	0.354	0.111
7476115	1x70	14.5	18.8	1.010	113	233	0.586	0.596	0.270	0.345	0.332	0.104
7476116	1x95	16.6	21.1	1.320	127	285	0.450	0.431	0.195	0.249	0.322	0.101
7476117	1x120	18.3	22.7	1.600	136	333	0.373	0.340	0.154	0.197	0.310	0.097
7476118	1x150	19.8	24.5	1.895	147	386	0.322	0.278	0.126	0.162	0.304	0.096
7476119	1x185	21.9	27.0	2.325	162	444	0.275	0.221	0.100	0.129	0.301	0.095
7476120	1x240	24.7	30.0	2.960	180	528	0.230	0.168	0.0762	0.0993	0.292	0.092
7476121	1x300	27.3	32.8	3.625	197	612	0.201	0.134	0.0607	0.0802	0.287	0.090
7476122	1x400	30.3	36.0	4.535	216	716	0.176	0.105	0.0475	0.0641	0.281	0.088
7476123	1x500	35.6	41.8	5.915	251	823	0.157	0.081	0.0369	0.0515	0.282	0.089
7476124	1x630	39.7	46.3	7.455	278	947	0.140	0.063	0.0286	0.0423	0.273	0.086
7476205	2x1	8.6	12.5	240	75	13	37.28	46.41	18.2	23.2	0.395	0.124
7476206	2x1.5	8.9	12.1	250	73	23	25.04	31.11	12.2	15.6	0.384	0.121
7476207	2x2.5	9.7	13.1	295	79	31	15.56	19.28	7.56	9.64	0.357	0.112
7476208	2x4	10.6	14.6	390	88	43	9.715	11.99	4.70	5.99	0.335	0.105
7476209	2x6	11.8	15.8	470	95	55	6.463	7.931	3.11	3.97	0.314	0.099
7476210	2x10	14.0	18.0	635	108	75	3.868	4.692	1.84	2.35	0.302	0.095
7476211	2x16	15.8	20.0	885	120	100	2.475	2.958	1.16	1.48	0.287	0.090
7476212	2x25	18.8	23.2	1.205	139	130	1.605	1.872	0.734	0.937	0.284	0.089
7476213	2x35	20.9	25.7	1.480	154	161	1.182	1.349	0.529	0.675	0.274	0.086
7476214	2x50	24.1	29.3	1.980	176	196	0.899	0.997	0.391	0.499	0.269	0.085
7476215	2x70	26.9	32.3	2.590	194	251	0.647	0.689	0.270	0.345	0.255	0.080
7476216	2x95	31.5	37.5	3.600	225	306	0.493	0.497	0.195	0.249	0.253	0.079
7476217	2x120	34.8	41.6	4.560	250	357	0.407	0.393	0.154	0.197	0.247	0.078
7476218	2x150	37.9	44.9	5.330	269	412	0.349	0.321	0.126	0.162	0.245	0.077
7476219	2x185	42.5	49.9	6.760	299	472	0.296	0.255	0.100	0.129	0.244	0.077
7476220	2x240	48.1	56.6	8.755	340	558	0.246	0.194	0.0762	0.0993	0.241	0.076
7476221	2x300	55.8	64.8	11.650	389	645	0.214	0.155	0.0607	0.0802	0.239	0.075
7476305	3x1	9.2	12.4	260	74	11	32.29	40.20	18.2	23.2	0.395	0.124
7476306	3x1.5	9.5	12.9	285	77	20	21.68	26.94	12.2	15.6	0.384	0.121
7476307	3x2.5	10.3	14.1	365	85	28	13.47	16.70	7.56	9.64	0.357	0.112
7476308	3x4	11.3	15.3	450	92	37	8.413	10.38	4.70	5.99	0.335	0.105
7476309	3x6	13.1	17.1	570	103	47	5.601	6.869	3.11	3.97	0.324	0.102
7476310	3x10	14.9	19.2	770	115	65	3.350	4.064	1.84	2.35	0.302	0.095
7476311	3x16	16.9	21.3	1.065	128	87	2.143	2.562	1.16	1.48	0.287	0.090
7476312	3x25	20.1	24.7	1.450	148	110	1.390	1.621	0.734	0.937	0.284	0.089
7476313	3x35	22.4	27.4	1.865	164	137	1.024	1.168	0.529	0.675	0.274	0.086
7476314	3x50	25.8	31.1	2.435	187	167	0.779	0.864	0.391	0.499	0.269	0.085

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1)[2]} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
7476315	3x70	29.3	34.7	3.285	208	214	0.560	0.596	0.270	0.345	0.255	0.080
7476316	3x95	33.8	40.0	4.470	240	259	0.427	0.431	0.195	0.249	0.253	0.079
7476317	3x120	37.4	44.4	5.535	266	301	0.353	0.340	0.154	0.197	0.247	0.078
7476318	3x150	41.1	48.3	6.775	290	347	0.303	0.278	0.126	0.162	0.245	0.077
7476319	3x185	45.7	53.3	8.330	320	397	0.256	0.221	0.100	0.129	0.244	0.077
7476320	3x240	54.2	63.1	11.095	379	468	0.213	0.168	0.0762	0.0993	0.241	0.076
7476321	3x300	59.8	69.1	13.935	415	540	0.185	0.134	0.0607	0.0802	0.239	0.075
7476405	4x1	10.0	13.5	300	81	10	32.29	40.20	18.2	23.2	0.419	0.132
7476406	4x1.5	10.3	13.8	325	83	20	21.69	26.94	12.2	15.6	0.407	0.128
7476407	4x2.5	11.3	15.1	420	91	28	13.48	16.70	7.56	9.64	0.381	0.120
7476408	4x4	12.4	16.4	520	98	37	8.421	10.38	4.70	5.99	0.358	0.112
7476409	4x6	14.4	18.7	680	112	47	5.608	6.869	3.11	3.97	0.347	0.109
7476410	4x10	16.5	20.7	910	124	65	3.357	4.064	1.84	2.35	0.326	0.102
7476411	4x16	18.7	23.1	1.260	139	87	2.151	2.562	1.16	1.48	0.311	0.098
7476412	4x25	22.3	27.3	1.815	164	110	1.397	1.621	0.734	0.937	0.308	0.097
7476413	4x35	24.8	30.1	2.275	181	137	1.032	1.168	0.529	0.675	0.297	0.093
7476414	4x50	29.1	34.7	3.050	208	167	0.786	0.864	0.391	0.499	0.292	0.092
7476415	4x70	32.5	38.7	4.120	232	214	0.568	0.596	0.270	0.345	0.279	0.088
7476416	4x95	37.6	44.2	5.540	265	259	0.435	0.431	0.195	0.249	0.277	0.087
7476417	4x120	42.0	49.2	6.985	295	301	0.360	0.340	0.154	0.197	0.270	0.085
7476418	4x150	47.4	55.1	8.535	331	347	0.310	0.278	0.126	0.162	0.269	0.085
7476419	4x185	52.9	61.4	10.600	368	397	0.264	0.221	0.100	0.129	0.268	0.084
7476420	4x240	60.1	69.5	14.000	417	468	0.221	0.168	0.0762	0.0993	0.264	0.083
7476421	4x300	66.4	76.2	17.460	457	540	0.193	0.134	0.0607	0.0802	0.263	0.083
7476505	5x1	11.0	14.4	350	86	9	32.30	40.20	18.2	23.2	0.428	0.134
7476506	5x1.5	11.4	14.8	380	89	20	21.69	26.94	12.2	15.6	0.416	0.131
7476507	5x2.5	12.4	16.5	500	99	28	13.48	16.70	7.56	9.64	0.390	0.123
7476508	5x4	13.7	17.9	625	107	37	8.424	10.38	4.70	5.99	0.367	0.115
7476509	5x6	16.0	20.2	805	121	47	5.611	6.869	3.11	3.97	0.356	0.112
7476510	5x10	18.3	22.7	1.095	136	65	3.360	4.064	1.84	2.35	0.335	0.105
7476511	5x16	20.7	25.5	1.480	153	87	2.154	2.562	1.16	1.48	0.320	0.101
7476512	5x25	24.8	30.0	2.145	180	110	1.400	1.621	0.734	0.937	0.317	0.100
7476513	5x35	27.7	33.1	2.750	199	137	1.035	1.168	0.529	0.675	0.307	0.096
7476514	5x50	32.4	38.2	3.670	229	167	0.789	0.864	0.391	0.499	0.302	0.095
7476515	5x70	36.2	42.6	4.960	256	214	0.571	0.596	0.270	0.345	0.288	0.090
7476516	5x95	42.3	49.2	6.665	295	259	0.438	0.431	0.195	0.249	0.286	0.090
7476517	5x120	46.8	54.0	8.235	324	301	0.363	0.340	0.154	0.197	0.279	0.088
7476518	5x150	51.5	59.8	9.955	359	347	0.313	0.278	0.126	0.162	0.278	0.087

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4. Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

CONTROL

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	DC conductor resistance at 20 °C (0hm/km)
2470055	5x1	11.0	15.1	355	91	18.2
2470056	5x1.5	11.5	14.9	385	89	12.2
2470057	5x2.5	12.6	17.4	525	104	7.56
2470075	7x1	12.1	16.1	445	97	18.2
2470076	7x1.5	12.5	16.5	490	99	12.2
2470077	7x2.5	13.6	17.8	600	107	7.56
2470125	12x1	15.9	20.1	655	121	18.2
2470126	12x1.5	16.5	20.9	735	125	12.2
2470127	12x2.5	18.1	22.7	915	136	7.56
2470195	19x1	18.8	23.2	875	139	18.2
2470196	19x1.5	19.5	24.1	995	145	12.2
2470197	19x2.5	21.4	26.4	1,265	158	7.56
2470205	20x1	19.8	25.2	980	151	18.2
2470206	20x1.5	20.5	25.3	1,080	152	12.2
2470207	20x2.5	22.6	27.6	1,360	166	7.56
2470275	27x1	22.6	27.6	1,175	166	18.2
2470276	27x1.5	23.4	28.6	1,340	172	12.2
2470277	27x2.5	25.8	31.2	1,700	187	7.56
2470375	37x1	25.3	30.6	1,465	184	18.2
2470376	37x1.5	26.3	31.7	1,680	190	12.2
2470377	37x2.5	29.0	34.6	2,150	208	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

STANDARDS:**CONSTRUCTION:** IEC 60092-353 / IEC 60092-360 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. OUTER SHEATH:

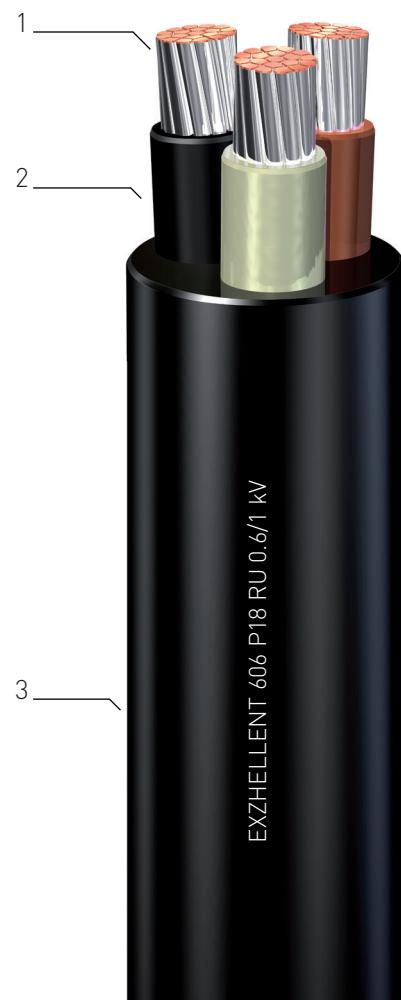
Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.
Oil resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (0mH/km)
7500106	1x1.5	5.5	44	22	21	21.71	26.94	12.2	15.6	0.468	0.147
7500107	1x2.5	5.8	55	23	28	13.50	16.70	7.56	9.64	0.434	0.136
7500108	1x4	6.3	71	25	38	8.436	10.38	4.70	5.99	0.404	0.127
7500109	1x6	6.9	93	28	49	5.618	6.869	3.11	3.97	0.376	0.118
7500110	1x10	8.2	140	33	67	3.368	4.064	1.84	2.35	0.358	0.112
7500111	1x16	9.1	200	36	91	2.159	2.562	1.16	1.48	0.336	0.106
7500112	1x25	10.6	295	42	117	1.403	1.621	0.734	0.937	0.324	0.102
7500113	1x35	11.6	395	46	147	1.036	1.168	0.529	0.675	0.310	0.097
7500114	1x50	13.2	525	53	180	0.789	0.864	0.391	0.499	0.299	0.094
7500115	1x70	15.0	735	60	233	0.571	0.596	0.270	0.345	0.287	0.090
7500116	1x95	17.1	990	68	285	0.436	0.431	0.195	0.249	0.280	0.088
7500117	1x120	18.8	1,240	75	333	0.361	0.340	0.154	0.197	0.271	0.085
7500118	1x150	20.5	1,495	82	386	0.310	0.278	0.126	0.162	0.269	0.085
7500119	1x185	22.8	1,870	91	444	0.264	0.221	0.100	0.129	0.267	0.084
7500120	1x240	25.8	2,440	155	528	0.220	0.168	0.0762	0.099	0.262	0.082
7500121	1x300	28.6	3,040	172	612	0.192	0.134	0.0607	0.0802	0.260	0.082
7500122	1x400	31.8	3,875	191	716	0.168	0.105	0.0475	0.0641	0.257	0.081
7500123	1x500	36.0	4,950	216	823	0.148	0.081	0.0369	0.0515	0.252	0.079
7500124	1x630	40.6	6,365	244	947	0.131	0.063	0.0286	0.0423	0.247	0.078
7500205	2x1	8.6	105	34	13	37.28	46.41	18.2	23.2	0.395	0.124
7500206	2x1.5	9.1	120	36	23	25.04	31.11	12.2	15.6	0.384	0.121
7500207	2x2.5	9.9	150	40	31	15.56	19.28	7.56	9.64	0.357	0.112
7500208	2x4	10.8	190	43	43	9.715	11.99	4.70	5.99	0.335	0.105
7500209	2x6	12.2	255	49	55	6.463	7.931	3.11	3.97	0.314	0.099
7500210	2x10	13.9	365	56	75	3.865	4.692	1.84	2.35	0.294	0.092
7500211	2x16	15.9	520	64	100	2.472	2.958	1.16	1.48	0.280	0.088
7500212	2x25	19.1	785	76	130	1.602	1.872	0.734	0.937	0.278	0.087
7500213	2x35	21.4	1,035	86	161	1.180	1.349	0.529	0.675	0.269	0.085
7500214	2x50	25.0	1,405	150	196	0.897	0.997	0.391	0.499	0.264	0.083
7500215	2x70	28.0	1,905	168	251	0.646	0.689	0.270	0.345	0.251	0.079
7500216	2x95	32.4	2,585	194	306	0.492	0.497	0.195	0.249	0.250	0.079
7500217	2x120	35.9	3,235	215	357	0.406	0.393	0.154	0.197	0.244	0.077
7500218	2x150	39.4	3,910	236	412	0.348	0.321	0.126	0.162	0.242	0.076
7500219	2x185	43.8	4,875	263	472	0.295	0.255	0.100	0.129	0.242	0.076
7500220	2x240	50.0	6,395	300	558	0.245	0.194	0.0762	0.099	0.239	0.075
7500221	2x300	55.4	7,930	332	645	0.213	0.155	0.0607	0.0802	0.237	0.074
7500305	3x1	9.6	120	38	11	32.29	40.20	18.2	23.2	0.395	0.124
7500306	3x1.5	9.9	135	40	20	21.68	26.94	12.2	15.6	0.384	0.121
7500307	3x2.5	10.5	190	42	28	13.47	16.70	7.56	9.64	0.357	0.112
7500308	3x4	11.7	255	47	37	8.413	10.38	4.70	5.99	0.335	0.105
7500309	3x6	13.0	315	52	47	5.597	6.869	3.11	3.97	0.314	0.099
7500310	3x10	15.0	465	60	65	3.347	4.064	1.84	2.35	0.294	0.092
7500311	3x16	17.2	670	69	87	2.141	2.562	1.16	1.48	0.280	0.088
7500312	3x25	20.6	1,015	82	110	1.388	1.621	0.734	0.937	0.278	0.087
7500313	3x35	23.1	1,365	92	137	1.022	1.168	0.529	0.675	0.269	0.085

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
7500314	3x50	26.9	1,830	161	167	0.777	0.864	0.391	0.499	0.264	0.083
7500315	3x70	30.4	2,525	182	214	0.559	0.596	0.270	0.345	0.251	0.079
7500316	3x95	35.1	3,435	211	259	0.426	0.431	0.195	0.249	0.250	0.079
7500317	3x120	38.9	4,310	233	301	0.352	0.340	0.154	0.197	0.244	0.077
7500318	3x150	42.4	5,185	254	347	0.302	0.278	0.126	0.162	0.242	0.076
7500319	3x185	47.3	6,490	284	397	0.256	0.221	0.100	0.129	0.242	0.076
7500320	3x240	53.8	8,490	323	468	0.213	0.168	0.0762	0.099	0.239	0.075
7500321	3x300	59.8	10,580	359	540	0.185	0.134	0.0607	0.0802	0.237	0.074
7500405	4x1	10.2	140	41	10	32.29	40.20	18.2	23.2	0.419	0.132
7500406	4x1.5	10.5	165	42	20	21.69	26.94	12.2	15.6	0.407	0.128
7500407	4x2.5	11.7	215	47	28	13.48	16.70	7.56	9.64	0.381	0.120
7500408	4x4	12.8	310	51	37	8.421	10.38	4.70	5.99	0.358	0.112
7500409	4x6	14.5	395	58	47	5.605	6.869	3.11	3.97	0.337	0.106
7500410	4x10	16.5	580	66	65	3.355	4.064	1.84	2.35	0.318	0.100
7500411	4x16	18.9	840	76	87	2.149	2.562	1.16	1.48	0.303	0.095
7500412	4x25	22.9	1,290	92	110	1.395	1.621	0.734	0.937	0.302	0.095
7500413	4x35	25.7	1,725	154	137	1.030	1.168	0.529	0.675	0.292	0.092
7500414	4x50	29.9	2,335	179	167	0.785	0.864	0.391	0.499	0.288	0.090
7500415	4x70	34.5	3,305	207	214	0.567	0.596	0.270	0.345	0.275	0.086
7500416	4x95	39.0	4,395	234	259	0.434	0.431	0.195	0.249	0.273	0.086
7500417	4x120	43.2	5,520	259	301	0.359	0.340	0.154	0.197	0.267	0.084
7500418	4x150	47.4	6,670	284	347	0.309	0.278	0.126	0.162	0.266	0.084
7500419	4x185	52.8	8,345	317	397	0.263	0.221	0.100	0.129	0.265	0.083
7500420	4x240	60.0	10,920	360	468	0.220	0.168	0.0762	0.099	0.262	0.082
7500421	4x300	66.9	13,635	401	540	0.192	0.134	0.0607	0.0802	0.261	0.082
7500505	5x1	11.2	170	45	9	32.30	40.20	18.2	23.2	0.428	0.134
7500506	5x1.5	11.8	205	47	20	21.69	26.94	12.2	15.6	0.416	0.131
7500507	5x2.5	12.8	265	51	28	13.48	16.70	7.56	9.64	0.390	0.123
7500508	5x4	14.3	360	57	37	8.424	10.38	4.70	5.99	0.367	0.115
7500509	5x6	15.9	480	64	47	5.608	6.869	3.11	3.97	0.347	0.109
7500510	5x10	18.4	720	74	65	3.358	4.064	1.84	2.35	0.327	0.103
7500511	5x16	21.1	1,050	84	87	2.152	2.562	1.16	1.48	0.313	0.098
7500512	5x25	25.6	1,610	154	110	1.398	1.621	0.734	0.937	0.311	0.098
7500513	5x35	28.6	2,150	172	137	1.033	1.168	0.529	0.675	0.301	0.095
7500514	5x50	33.4	2,910	200	167	0.788	0.864	0.391	0.499	0.297	0.093
7500515	5x70	37.4	4,010	224	214	0.570	0.596	0.270	0.345	0.284	0.089
7500516	5x95	43.5	5,480	261	259	0.437	0.431	0.195	0.249	0.282	0.089
7500517	5x120	48.4	6,910	290	301	0.362	0.340	0.154	0.197	0.276	0.087
7500518	5x150	53.0	8,345	318	347	0.312	0.278	0.126	0.162	0.275	0.086

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

CONTROL

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	DC conductor resistance at 20 °C (Ohm/km)
2480055	5x1	11.3	175	45	18.2
2480056	5x1.5	11.9	210	48	12.2
2480057	5x2.5	13.0	270	52	7.56
2480075	7x1	12.1	200	48	18.2
2480076	7x1.5	12.9	250	52	12.2
2480077	7x2.5	14.2	370	57	7.56
2480125	12x1	16.5	345	66	18.2
2480126	12x1.5	17.3	410	69	12.2
2480127	12x2.5	18.9	545	76	7.56
2480195	19x1	19.6	490	78	18.2
2480196	19x1.5	20.5	595	82	12.2
2480197	19x2.5	22.6	810	90	7.56
2480205	20x1	20.8	550	83	18.2
2480206	20x1.5	21.5	650	86	12.2
2480207	20x2.5	23.8	885	95	7.56
2480275	27x1	23.8	685	95	18.2
2480276	27x1.5	24.6	820	98	12.2
2480277	27x2.5	27.2	1,120	163	7.56
2480375	37x1	26.7	890	160	18.2
2480376	37x1.5	27.9	1,085	167	12.2
2480377	37x2.5	30.8	1,485	185	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

exZhellent® 606

EXZHELLENT® 606

P18 RU Mud Resistant Non Armoured Low Voltage Power
and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. OUTER SHEATH:

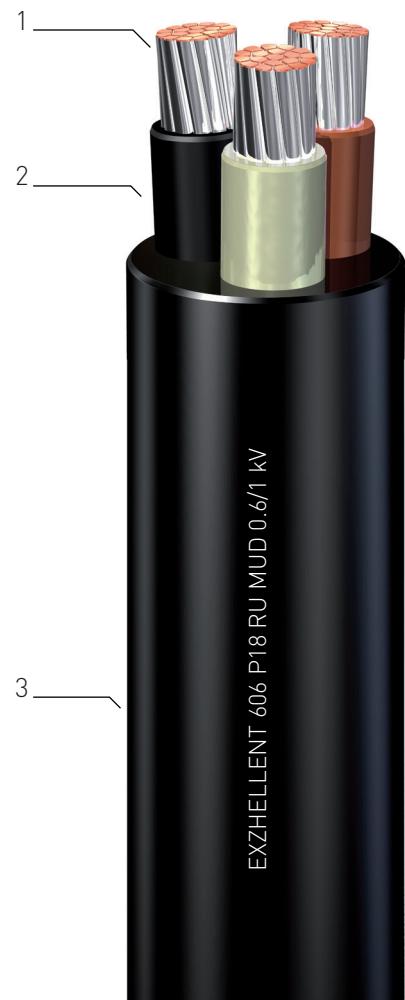
Halogen-free Mud resistant cross-linked compound (SHF Mud).
NEK TS 606.

APPLICATIONS:

Unarmoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.
Oil and mud resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (0mH/km)
7626106	1x1.5	5.6	53	22	21	21.71	26.94	12.2	15.6	0.472	0.148
7626107	1x2.5	5.9	66	24	28	13.50	16.70	7.56	9.64	0.437	0.137
7626108	1x4	6.4	83	26	38	8.437	10.38	4.70	5.99	0.408	0.128
7626109	1x6	7.2	110	29	49	5.621	6.869	3.11	3.97	0.386	0.121
7626110	1x10	8.1	155	32	67	3.367	4.064	1.84	2.35	0.357	0.112
7626111	1x16	9.2	225	37	91	2.160	2.562	1.16	1.48	0.339	0.106
7626112	1x25	10.7	325	43	117	1.404	1.621	0.734	0.937	0.327	0.103
7626113	1x35	11.9	435	48	147	1.038	1.168	0.529	0.675	0.316	0.099
7626114	1x50	13.5	570	54	180	0.790	0.864	0.391	0.499	0.304	0.096
7626115	1x70	15.1	780	60	233	0.572	0.596	0.270	0.345	0.289	0.091
7626116	1x95	17.4	1,060	70	285	0.437	0.431	0.195	0.249	0.284	0.089
7626117	1x120	19.1	1,315	76	333	0.362	0.340	0.154	0.197	0.275	0.086
7626118	1x150	20.8	1,585	83	386	0.312	0.278	0.126	0.162	0.273	0.086
7626119	1x185	23.1	1,975	92	444	0.265	0.221	0.100	0.129	0.270	0.085
7626120	1x240	26.1	2,575	157	528	0.221	0.168	0.0762	0.0993	0.265	0.083
7626121	1x300	28.9	3,195	173	612	0.193	0.134	0.0607	0.0802	0.262	0.082
7626122	1x400	32.1	4,065	193	716	0.168	0.105	0.0475	0.0641	0.259	0.081
7626123	1x500	36.9	5,215	221	823	0.149	0.081	0.0369	0.0515	0.257	0.081
7626124	1x630	41.5	6,675	249	947	0.133	0.063	0.0286	0.0423	0.251	0.079
7626205	2x1	8.6	120	34	13	37.29	46.41	18.2	23.2	0.395	0.124
7626206	2x1.5	9.1	140	36	23	25.05	31.11	12.2	15.6	0.384	0.121
7626207	2x2.5	9.9	175	40	31	15.57	19.28	7.56	9.64	0.357	0.112
7626208	2x4	10.8	220	43	43	9.723	11.99	4.70	5.99	0.335	0.105
7626209	2x6	12.7	305	51	55	6.470	7.931	3.11	3.97	0.324	0.102
7626210	2x10	14.4	425	58	75	3.874	4.692	1.84	2.35	0.302	0.095
7626211	2x16	16.4	595	66	100	2.480	2.958	1.16	1.48	0.287	0.090
7626212	2x25	19.6	885	78	130	1.609	1.872	0.734	0.937	0.284	0.089
7626213	2x35	21.9	1,155	88	161	1.186	1.349	0.529	0.675	0.274	0.086
7626214	2x50	25.5	1,560	153	196	0.903	0.997	0.391	0.499	0.269	0.085
7626215	2x70	28.5	2,095	171	251	0.649	0.689	0.270	0.345	0.255	0.080
7626216	2x95	32.9	2,830	197	306	0.496	0.497	0.195	0.249	0.253	0.079
7626217	2x120	36.8	3,565	221	357	0.410	0.393	0.154	0.197	0.247	0.078
7626218	2x150	39.9	4,255	239	412	0.352	0.321	0.126	0.162	0.245	0.077
7626219	2x185	44.3	5,290	266	472	0.298	0.255	0.100	0.129	0.244	0.077
7626220	2x240	50.5	6,925	303	558	0.248	0.194	0.0762	0.0993	0.241	0.076
7626221	2x300	55.4	8,505	332	645	0.216	0.155	0.0607	0.0802	0.237	0.074
7626305	3x1	9.4	145	38	11	32.29	40.20	18.2	23.2	0.395	0.124
7626306	3x1.5	9.7	165	39	20	21.68	26.94	12.2	15.6	0.384	0.121
7626307	3x2.5	10.5	205	42	28	13.47	16.70	7.56	9.64	0.357	0.112
7626308	3x4	11.7	270	47	37	8.413	10.38	4.70	5.99	0.335	0.105
7626309	3x6	13.5	370	54	47	5.601	6.869	3.11	3.97	0.324	0.102
7626310	3x10	15.5	535	62	65	3.350	4.064	1.84	2.35	0.302	0.095
7626311	3x16	17.7	755	71	87	2.143	2.562	1.16	1.48	0.287	0.090
7626312	3x25	21.1	1,130	84	110	1.390	1.621	0.734	0.937	0.284	0.089
7626313	3x35	23.6	1,485	94	137	1.024	1.168	0.529	0.675	0.274	0.086

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current ratings air 45 °C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (mH/km)
7626314	3x50	27.2	1,990	163	167	0.779	0.864	0.391	0.499	0.269	0.085
7626315	3x70	30.7	2,720	184	214	0.560	0.596	0.270	0.345	0.255	0.080
7626316	3x95	35.4	3,690	212	259	0.427	0.431	0.195	0.249	0.253	0.079
7626317	3x120	39.2	4,610	235	301	0.353	0.340	0.154	0.197	0.247	0.078
7626318	3x150	42.9	5,570	257	347	0.303	0.278	0.126	0.162	0.245	0.077
7626319	3x185	47.9	6,960	287	397	0.256	0.221	0.100	0.129	0.244	0.077
7626320	3x240	54.3	9,080	326	468	0.213	0.168	0.0762	0.0993	0.241	0.076
7626321	3x300	60.3	11,295	362	540	0.185	0.134	0.0607	0.0802	0.239	0.075
7626405	4x1	10.2	170	41	10	32.29	40.20	18.2	23.2	0.419	0.132
7626406	4x1.5	10.5	190	42	20	21.69	26.94	12.2	15.6	0.407	0.128
7626407	4x2.5	11.7	250	47	28	13.48	16.70	7.56	9.64	0.381	0.120
7626408	4x4	12.8	330	51	37	8.421	10.38	4.70	5.99	0.358	0.112
7626409	4x6	15.0	465	60	47	5.608	6.869	3.11	3.97	0.347	0.109
7626410	4x10	17.1	660	68	65	3.357	4.064	1.84	2.35	0.326	0.102
7626411	4x16	19.5	940	78	87	2.151	2.562	1.16	1.48	0.311	0.098
7626412	4x25	23.5	1,430	94	110	1.397	1.621	0.734	0.937	0.308	0.097
7626413	4x35	26.2	1,885	157	137	1.032	1.168	0.529	0.675	0.297	0.093
7626414	4x50	30.3	2,530	182	167	0.786	0.864	0.391	0.499	0.292	0.092
7626415	4x70	34.1	3,470	205	214	0.568	0.596	0.270	0.345	0.279	0.088
7626416	4x95	39.6	4,725	238	259	0.435	0.431	0.195	0.249	0.277	0.087
7626417	4x120	43.8	5,900	263	301	0.360	0.340	0.154	0.197	0.270	0.085
7626418	4x150	47.9	7,130	287	347	0.310	0.278	0.126	0.162	0.269	0.085
7626419	4x185	53.4	8,910	320	397	0.264	0.221	0.100	0.129	0.268	0.084
7626420	4x240	60.6	11,620	364	468	0.221	0.168	0.0762	0.0993	0.264	0.083
7626421	4x300	67.5	14,495	405	540	0.193	0.134	0.0607	0.0802	0.263	0.083
7626505	5x1	11.2	210	45	9	32.30	40.20	18.2	23.2	0.428	0.134
7626506	5x1.5	11.8	245	47	20	21.69	26.94	12.2	15.6	0.416	0.131
7626507	5x2.5	12.8	310	51	28	13.48	16.70	7.56	9.64	0.390	0.123
7626508	5x4	14.3	415	57	37	8.424	10.38	4.70	5.99	0.367	0.115
7626509	5x6	16.6	570	66	47	5.611	6.869	3.11	3.97	0.356	0.112
7626510	5x10	19.1	830	76	65	3.360	4.064	1.84	2.35	0.335	0.105
7626511	5x16	21.7	1,180	87	87	2.154	2.562	1.16	1.48	0.320	0.101
7626512	5x25	26.2	1,795	157	110	1.400	1.621	0.734	0.937	0.317	0.100
7626513	5x35	29.3	2,370	176	137	1.035	1.168	0.529	0.675	0.307	0.096
7626514	5x50	34.0	3,200	204	167	0.789	0.864	0.391	0.499	0.302	0.095
7626515	5x70	38.0	4,355	228	214	0.571	0.596	0.270	0.345	0.288	0.090
7626516	5x95	44.1	5,930	265	259	0.438	0.431	0.195	0.249	0.286	0.090
7626517	5x120	49.0	7,440	294	301	0.363	0.340	0.154	0.197	0.279	0.088
7626518	5x150	53.7	8,980	322	347	0.313	0.278	0.126	0.162	0.278	0.087

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:**CONTROL**

General Cable Code	Cross section (mm²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	DC conductor resistance at 20 °C (0hm/km)
2326055	5x1	11.3	210	45	18.2
2326056	5x1.5	11.9	245	48	12.2
2326057	5x2.5	13.0	310	52	7.56
2326075	7x1	12.5	255	50	18.2
2326076	7x1.5	12.9	295	52	12.2
2326077	7x2.5	14.2	385	57	7.56
2326125	12x1	16.5	410	66	18.2
2326126	12x1.5	17.3	485	69	12.2
2326127	12x2.5	18.9	630	76	7.56
2326195	19x1	19.6	590	78	18.2
2326196	19x1.5	20.5	700	82	12.2
2326197	19x2.5	22.6	935	136	7.56
2326205	20x1	20.8	660	125	18.2
2326206	20x1.5	21.5	765	129	12.2
2326207	20x2.5	23.8	1,015	143	7.56
2326275	27x1	23.8	830	143	18.2
2326276	27x1.5	24.6	965	148	12.2
2326277	27x2.5	27.2	1,290	163	7.56
2326375	37x1	26.7	1,075	160	18.2
2326376	37x1.5	27.9	1,275	167	12.2
2326377	37x2.5	30.8	1,710	185	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

EXZHELLENT® 606

P2, P3, P4, P19, P20 RFOU Armoured Medium Voltage
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

STANDARDS:

CONSTRUCTION: IEC 60092-354 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. CONDUCTOR SCREENING:

Semiconducting material.

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

4. INSULATION SCREENING:

Semiconducting material and tinned copper wire braid.
Core identification: see page 21.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Medium voltage power cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



EXZHELLENT® 606
 P2, P3, P4, P19, P20 RFOU Armoured Medium Voltage
 3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

exZhellent 606

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P2 RFOU 3.6/6 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7940111	1x16	10.7	15.2	19.5	670	390	234	87	1.16	1.48	0.489	0.154	0.228
7940112	1x25	11.8	16.3	20.6	795	412	247	111	0.734	0.937	0.458	0.144	0.261
7940113	1x35	12.8	17.3	21.6	925	432	259	140	0.529	0.675	0.434	0.136	0.292
7940114	1x50	14.0	18.5	23.0	1,095	460	276	171	0.391	0.499	0.410	0.129	0.327
7940115	1x70	15.4	19.9	24.4	1,345	488	293	221	0.270	0.345	0.385	0.121	0.368
7940116	1x95	17.1	21.6	26.3	1,660	526	316	271	0.195	0.249	0.367	0.115	0.418
7940117	1x120	18.8	23.3	28.2	1,970	564	338	316	0.154	0.197	0.352	0.111	0.466
7940118	1x150	19.9	24.4	29.4	2,235	588	353	367	0.126	0.162	0.341	0.107	0.499
7940119	1x185	21.6	26.1	31.3	2,650	626	376	422	0.100	0.129	0.331	0.104	0.549
7940120	1x240	24.2	29.1	34.5	3,355	690	414	502	0.0762	0.0993	0.320	0.101	0.597
7940121	1x300	26.8	31.7	37.7	4,105	754	452	581	0.0607	0.0802	0.315	0.099	0.616
7940122	1x400	30.5	35.8	42.2	5,270	844	506	680	0.0475	0.0641	0.313	0.098	0.660
7940123	1x500	35.8	41.5	48.1	6,670	962	577	782	0.0369	0.0515	0.310	0.097	0.734
7940124	1x630	40.0	45.7	52.5	8,255	1050	473	900	0.0286	0.0423	0.298	0.094	0.828
7940311	3x16	10.7	32.3	38.3	2,335	575	345	83	1.16	1.48	0.419	0.132	0.228
7940312	3x25	11.8	34.8	41.0	2,810	615	369	105	0.734	0.937	0.392	0.123	0.261
7940313	3x35	12.8	37.0	43.4	3,280	651	391	130	0.529	0.675	0.372	0.117	0.292
7940314	3x50	14.0	40.2	46.8	3,910	702	421	159	0.391	0.499	0.351	0.110	0.327
7940315	3x70	15.4	43.4	50.4	4,855	756	454	203	0.270	0.345	0.329	0.103	0.368
7940316	3x95	17.1	47.2	54.4	6,035	816	490	246	0.195	0.249	0.314	0.099	0.418
7940317	3x120	18.8	51.3	58.7	7,280	881	528	286	0.154	0.197	0.302	0.095	0.466
7940318	3x150	19.9	53.9	62.1	8,520	932	559	330	0.126	0.162	0.293	0.092	0.499
7940319	3x185	21.6	57.7	66.0	10,055	990	594	377	0.100	0.129	0.284	0.089	0.549
7940320	3x240	24.2	66.8	73.7	12,905	1106	663	445	0.0762	0.0993	0.274	0.086	0.597
7940321	3x300	26.8	73.9	81.1	16,045	1217	730	513	0.0607	0.0802	0.270	0.085	0.616

TYPE P3 RFOU 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7946111	1x16	12.5	17.0	21.3	765	426	256	87	1.16	1.48	0.507	0.159	0.183
7946112	1x25	13.6	18.1	22.6	905	452	271	111	0.734	0.937	0.476	0.150	0.207
7946113	1x35	14.6	19.1	23.6	1,035	472	283	140	0.529	0.675	0.452	0.142	0.230
7946114	1x50	15.8	20.3	25.0	1,210	500	300	171	0.391	0.499	0.427	0.134	0.257
7946115	1x70	17.2	21.7	26.4	1,460	528	317	221	0.270	0.345	0.401	0.126	0.287
7946116	1x95	18.9	23.4	28.3	1,775	566	340	271	0.195	0.249	0.381	0.120	0.324
7946117	1x120	20.6	25.1	30.1	2,095	602	361	316	0.154	0.197	0.366	0.115	0.359
7946118	1x150	21.7	26.6	31.8	2,410	636	382	367	0.126	0.162	0.357	0.112	0.384
7946119	1x185	23.4	28.3	33.7	2,830	674	404	422	0.100	0.129	0.346	0.109	0.421
7946120	1x240	25.8	30.7	36.1	3,460	722	433	502	0.0762	0.0993	0.329	0.103	0.472
7946121	1x300	28.0	32.9	38.9	4,205	778	467	581	0.0607	0.0802	0.321	0.101	0.519
7946122	1x400	31.3	36.6	43.0	5,295	860	516	680	0.0475	0.0641	0.317	0.100	0.590
7946123	1x500	35.5	41.2	47.8	6,615	956	574	782	0.0369	0.0515	0.309	0.097	0.679

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable] or F [Single core cable].

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P3 RFOU 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7946124	1x630	39.5	45.2	51.9	8,245	1038	623	900	0.0286	0.0423	0.296	0.093	0.764
7946311	3x16	12.5	36.0	42.5	2,760	638	383	83	1.16	1.48	0.445	0.140	0.183
7946312	3x25	13.6	39.2	46.0	3,490	690	414	105	0.734	0.937	0.416	0.131	0.207
7946313	3x35	14.6	41.6	48.4	3,805	726	436	130	0.529	0.675	0.395	0.124	0.230
7946314	3x50	15.8	44.3	51.3	4,420	770	462	159	0.391	0.499	0.372	0.117	0.257
7946315	3x70	17.2	47.4	54.5	5,300	818	491	203	0.270	0.345	0.349	0.110	0.287
7946316	3x95	18.9	51.7	59.3	6,575	890	534	246	0.195	0.249	0.332	0.104	0.324
7946317	3x120	20.6	55.4	63.2	7,815	948	569	286	0.154	0.197	0.319	0.100	0.359
7946318	3x150	21.7	58.0	66.4	9,085	996	598	330	0.126	0.162	0.308	0.097	0.384
7946319	3x185	23.4	61.7	70.3	10,770	1055	633	377	0.100	0.129	0.299	0.094	0.421
7946320	3x240	25.8	71.6	78.8	13,765	1182	709	445	0.0762	0.0993	0.286	0.090	0.472
7946321	3x300	28.0	76.6	84.1	16,665	1262	757	513	0.0607	0.0802	0.278	0.087	0.519

TYPE P4 RFOU 8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7947111	1x16	14.7	19.2	23.7	900	474	284	87	1.16	1.48	0.528	0.166	0.152
7947112	1x25	15.8	20.3	25.0	1,040	500	300	111	0.734	0.937	0.496	0.156	0.170
7947113	1x35	16.8	21.3	26.0	1,180	520	312	140	0.529	0.675	0.471	0.148	0.188
7947114	1x50	18.0	22.5	27.4	1,360	548	329	171	0.391	0.499	0.445	0.140	0.208
7947115	1x70	19.4	23.9	28.8	1,615	576	346	221	0.270	0.345	0.418	0.131	0.232
7947116	1x95	21.1	25.6	30.7	1,940	614	368	271	0.195	0.249	0.398	0.125	0.260
7947117	1x120	22.8	27.7	32.8	2,285	656	394	316	0.154	0.197	0.383	0.120	0.287
7947118	1x150	23.9	28.8	34.1	2,580	682	409	367	0.126	0.162	0.371	0.117	0.306
7947119	1x185	25.6	30.5	36.0	3,015	720	432	422	0.100	0.129	0.359	0.113	0.333
7947120	1x240	28.0	32.9	38.6	3,670	772	463	502	0.0762	0.0993	0.343	0.108	0.373
7947121	1x300	30.8	36.1	42.4	4,590	848	509	581	0.0607	0.0802	0.338	0.106	0.418
7947122	1x400	34.1	39.8	46.3	5,645	926	556	680	0.0475	0.0641	0.332	0.104	0.471
7947123	1x500	37.7	43.4	50.1	6,865	1002	601	782	0.0369	0.0515	0.318	0.100	0.530
7947124	1x630	41.9	47.6	54.5	8,460	1090	654	900	0.0286	0.0423	0.306	0.096	0.597
7947311	3x16	14.7	41.7	48.6	3,315	729	437	83	1.16	1.48	0.473	0.149	0.152
7947312	3x25	15.8	44.2	51.3	4,000	770	462	105	0.734	0.937	0.442	0.139	0.170
7947313	3x35	16.8	46.5	53.8	4,445	807	484	130	0.529	0.675	0.420	0.132	0.188
7947314	3x50	18.0	49.6	57.0	5,195	855	513	159	0.391	0.499	0.395	0.124	0.208
7947315	3x70	19.4	52.8	60.4	6,075	906	544	203	0.270	0.345	0.370	0.116	0.232
7947316	3x95	21.1	56.6	64.4	7,340	966	580	246	0.195	0.249	0.352	0.111	0.260
7947317	3x120	22.8	60.3	68.5	8,575	1028	617	286	0.154	0.197	0.337	0.106	0.287
7947318	3x150	23.9	62.9	71.7	9,820	1076	645	330	0.126	0.162	0.326	0.102	0.306
7947319	3x185	25.6	66.7	75.7	11,705	1136	681	377	0.100	0.129	0.315	0.099	0.333
7947320	3x240	28.0	75.8	83.3	14,485	1250	750	445	0.0762	0.0993	0.302	0.095	0.373

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values [Note 2 of point A.1 of IEC 60092-352].

EXZHELLENT® 606

P2, P3, P4, P19, P20 RFOU Armoured Medium Voltage
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

exZhellent 606

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P19 RFOU 12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ [A]	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7948113	1x35	18.8	23.3	28.2	1,320	564	338	140	0.529	0.675	0.487	0.153	0.164
7948114	1x50	20.0	24.5	29.4	1,495	588	353	171	0.391	0.499	0.459	0.144	0.181
7948115	1x70	21.4	25.9	31.0	1,770	620	372	221	0.270	0.345	0.433	0.136	0.200
7948116	1x95	23.1	28.0	33.3	2,135	666	400	271	0.195	0.249	0.414	0.130	0.223
7948117	1x120	24.8	29.7	35.0	2,455	700	420	316	0.154	0.197	0.396	0.124	0.246
7948118	1x150	25.9	30.8	36.3	2,760	726	436	367	0.126	0.162	0.383	0.120	0.261
7948119	1x185	27.6	32.5	38.4	3,265	768	461	422	0.100	0.129	0.372	0.117	0.284
7948120	1x240	30.0	35.3	41.6	4,050	832	499	502	0.0762	0.0993	0.358	0.112	0.316
7948121	1x300	32.2	37.9	44.2	4,765	884	530	581	0.0607	0.0802	0.347	0.109	0.346
7948122	1x400	36.1	41.8	48.5	5,880	970	582	680	0.0475	0.0641	0.341	0.107	0.398
7948123	1x500	39.7	45.4	52.3	7,120	1046	628	782	0.0369	0.0515	0.327	0.103	0.445
7948124	1x630	43.9	49.6	56.7	8,730	1134	680	900	0.0286	0.0423	0.314	0.099	0.500
7948313	3x35	18.8	51.4	58.8	5,095	882	529	130	0.529	0.675	0.440	0.138	0.164
7948314	3x50	20.0	54.1	61.9	5,800	929	557	159	0.391	0.499	0.414	0.130	0.181
7948315	3x70	21.4	57.3	65.3	6,770	980	588	203	0.270	0.345	0.388	0.122	0.200
7948316	3x95	23.1	61.1	69.3	8,020	1040	624	246	0.195	0.249	0.368	0.116	0.223
7948317	3x120	24.8	65.2	73.6	9,445	1104	662	286	0.154	0.197	0.353	0.111	0.246
7948318	3x150	25.9	67.8	77.0	10,700	1155	693	330	0.126	0.162	0.341	0.107	0.261
7948319	3x185	27.6	71.6	81.0	12,590	1215	729	377	0.100	0.129	0.329	0.103	0.284
7948320	3x240	30.0	81.2	89.1	15,675	1337	802	445	0.0762	0.0993	0.317	0.100	0.316

TYPE P20 RFOU 18/30 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ [A]	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7949114	1x50	25.0	29.9	35.2	1,930	704	422	171	0.391	0.499	0.495	0.156	0.141
7949115	1x70	26.4	31.3	37.2	2,305	744	446	221	0.270	0.345	0.469	0.147	0.155
7949116	1x95	28.1	33.0	39.1	2,665	782	469	271	0.195	0.249	0.446	0.140	0.171
7949117	1x120	29.8	35.1	41.2	3,100	824	494	316	0.154	0.197	0.428	0.135	0.187
7949118	1x150	30.9	35.8	42.1	3,325	842	505	367	0.126	0.162	0.413	0.130	0.198
7949119	1x185	32.6	38.3	44.8	3,935	896	538	422	0.100	0.129	0.403	0.126	0.214
7949120	1x240	35.0	40.3	46.8	4,515	936	562	502	0.0762	0.0993	0.381	0.120	0.236
7949121	1x300	37.2	42.9	49.6	5,335	992	595	581	0.0607	0.0802	0.370	0.116	0.257
7949122	1x400	41.1	46.8	53.9	6,500	1078	647	680	0.0475	0.0641	0.362	0.114	0.293
7949123	1x500	44.7	50.8	58.1	7,835	1162	697	782	0.0369	0.0515	0.348	0.109	0.326
7949124	1x630	48.9	55.1	62.6	9,545	1252	751	900	0.0286	0.0423	0.333	0.105	0.364
7949314	3x50	25.0	65.8	74.4	7,460	1116	670	159	0.391	0.499	0.455	0.143	0.141
7949315	3x70	26.4	68.9	77.7	8,695	1166	699	203	0.270	0.345	0.427	0.134	0.155
7949316	3x95	28.1	72.8	81.8	10,045	1227	736	246	0.195	0.249	0.405	0.127	0.171
7949317	3x120	29.8	77.4	86.8	11,980	1302	781	286	0.154	0.197	0.390	0.122	0.187
7949318	3x150	30.9	78.9	88.8	12,945	1332	799	330	0.126	0.162	0.374	0.118	0.198
7949319	3x185	32.6	83.6	93.9	15,315	1409	845	377	0.100	0.129	0.363	0.114	0.214
7949320	3x240	35.0	93.5	102.3	18,470	1535	921	445	0.0762	0.0993	0.346	0.109	0.236

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

exZhellent® 606

EXZHELLENT® 606

P2/P9, P3/P10, P4/P11, P19/P21, P20/P22 RFOU
Mud Resistant Armoured Medium Voltage
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

STANDARDS:

CONSTRUCTION: IEC 60092-354 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. CONDUCTOR SCREENING:

Semiconducting material.

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

4. INSULATION SCREENING:

Semiconducting material and tinned copper wire braid.

Core identification: see page 21.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Medium voltage power armoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, oil and mud resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.



EXZHELLENT® 606

P2/P9, P3/P10, P4/P11, P19/P21, P20/P22 RFOU Mud Resistant Armoured Medium Voltage
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

exZhellent 606

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P2/P9 RFOU 3.6/6 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7484111	1x16	10.7	15.3	19.7	725	394	236	87	1.16	1.48	0.491	0.154	0.228
7484112	1x25	11.8	16.4	20.8	855	416	250	111	0.734	0.937	0.460	0.144	0.261
7484113	1x35	12.8	17.6	22.0	995	440	264	140	0.529	0.675	0.438	0.138	0.292
7484114	1x50	14.0	18.8	23.4	1,175	468	281	171	0.391	0.499	0.414	0.130	0.327
7484115	1x70	15.4	20.2	24.8	1,430	496	298	221	0.270	0.345	0.388	0.122	0.368
7484116	1x95	17.1	21.9	26.9	1,760	538	323	271	0.195	0.249	0.371	0.117	0.418
7484117	1x120	18.8	23.6	28.8	2,085	576	346	316	0.154	0.197	0.357	0.112	0.466
7484118	1x150	19.9	24.7	29.9	2,350	598	359	367	0.126	0.162	0.345	0.108	0.499
7484119	1x185	21.8	27.0	32.4	2,820	648	389	422	0.100	0.129	0.338	0.106	0.530
7484120	1x240	24.2	29.4	35.0	3,470	700	420	502	0.0762	0.0993	0.323	0.102	0.597
7484121	1x300	26.8	32.0	38.2	4,260	764	458	581	0.0607	0.0802	0.318	0.100	0.616
7484122	1x400	31.1	36.7	43.3	5,530	866	520	680	0.0475	0.0641	0.318	0.100	0.674
7484123	1x500	35.1	41.1	47.9	6,795	958	575	782	0.0369	0.0515	0.309	0.097	0.718
7484124	1x630	39.3	45.3	52.6	8,485	1052	473	900	0.0286	0.0423	0.299	0.094	0.812
7484311	3x16	10.7	32.1	38.3	2,475	575	345	83	1.16	1.48	0.419	0.132	0.228
7484312	3x25	11.8	34.8	41.2	2,975	618	371	105	0.734	0.937	0.392	0.123	0.261
7484313	3x35	12.8	37.1	43.7	3,475	656	393	130	0.529	0.675	0.372	0.117	0.292
7484314	3x50	14.0	40.2	47.0	4,135	705	423	159	0.391	0.499	0.351	0.110	0.327
7484315	3x70	15.4	43.4	50.6	5,070	759	455	203	0.270	0.345	0.329	0.103	0.368
7484316	3x95	17.1	47.2	54.6	6,300	819	491	246	0.195	0.249	0.314	0.099	0.418
7484317	3x120	18.8	51.3	59.7	7,675	896	537	286	0.154	0.197	0.302	0.095	0.466
7484318	3x150	19.9	53.9	63.1	8,920	947	568	330	0.126	0.162	0.293	0.092	0.499
7484319	3x185	21.6	57.7	67.1	10,505	1007	604	377	0.100	0.129	0.284	0.089	0.549
7484320	3x240	24.2	63.4	74.6	13,435	1119	671	445	0.0762	0.0993	0.274	0.086	0.597
7484321	3x300	26.8	69.7	82.0	16,755	1230	738	513	0.0607	0.0802	0.270	0.085	0.616

TYPE P3/P10 RFOU 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7485111	1x16	12.5	17.3	21.7	835	434	260	87	1.16	1.48	0.511	0.160	0.183
7485112	1x25	13.6	18.4	23.0	985	460	276	111	0.734	0.937	0.480	0.151	0.207
7485113	1x35	14.6	19.4	24.0	1,130	480	288	140	0.529	0.675	0.455	0.143	0.230
7485114	1x50	15.8	20.6	25.4	1,305	508	305	171	0.391	0.499	0.430	0.135	0.257
7485115	1x70	17.2	22.0	27.0	1,565	540	324	221	0.270	0.345	0.405	0.127	0.287
7485116	1x95	18.9	23.7	28.9	1,900	578	347	271	0.195	0.249	0.385	0.121	0.324
7485117	1x120	20.6	25.4	30.6	2,205	612	367	316	0.154	0.197	0.369	0.116	0.359
7485118	1x150	21.7	26.9	32.3	2,540	646	388	367	0.126	0.162	0.360	0.113	0.384
7485119	1x185	23.4	28.6	34.2	2,975	684	410	422	0.100	0.129	0.349	0.110	0.421
7485120	1x240	25.8	31.0	36.6	3,610	732	439	502	0.0762	0.0993	0.332	0.104	0.472
7485121	1x300	28.0	33.2	39.4	4,375	788	473	581	0.0607	0.0802	0.324	0.102	0.519
7485122	1x400	31.3	37.0	43.6	5,505	872	523	680	0.0475	0.0641	0.320	0.101	0.590
7485123	1x500	35.3	41.4	48.2	6,825	964	578	782	0.0369	0.0515	0.311	0.098	0.675

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P3/P10 RFOU 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7485124	1x630	39.5	45.6	52.6	8,445	1052	631	900	0.0286	0.0423	0.299	0.094	0.764
7485311	3x16	12.5	36.7	43.3	2,990	650	390	83	1.16	1.48	0.447	0.140	0.183
7485312	3x25	13.6	39.2	46.0	3,515	690	414	105	0.734	0.937	0.416	0.131	0.207
7485313	3x35	14.6	41.6	48.6	4,055	729	437	130	0.529	0.675	0.395	0.124	0.230
7485314	3x50	15.8	44.3	51.5	4,695	773	464	159	0.391	0.499	0.372	0.117	0.257
7485315	3x70	17.2	47.4	54.8	5,620	822	493	203	0.270	0.345	0.349	0.110	0.287
7485316	3x95	18.9	51.7	60.2	6,955	903	542	246	0.195	0.249	0.332	0.104	0.324
7485317	3x120	20.6	55.4	64.1	8,280	962	577	286	0.154	0.197	0.319	0.100	0.359
7485318	3x150	21.7	58.0	67.3	9,545	1010	606	330	0.126	0.162	0.308	0.097	0.384
7485319	3x185	23.4	62.5	72.1	11,315	1082	649	377	0.100	0.129	0.299	0.094	0.421
7485320	3x240	25.8	67.4	80.0	14,485	1200	720	445	0.0762	0.0993	0.286	0.090	0.472
7485321	3x300	28.0	73.3	85.8	17,130	1287	772	513	0.0607	0.0802	0.278	0.087	0.519

TYPE P4/P11 RFOU 8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7486111	1x16	14.7	19.5	24.3	1,000	486	292	87	1.16	1.48	0.533	0.168	0.152
7486112	1x25	15.8	20.6	25.4	1,140	508	305	111	0.734	0.937	0.500	0.157	0.170
7486113	1x35	16.8	21.6	26.6	1,290	532	319	140	0.529	0.675	0.476	0.149	0.188
7486114	1x50	18.0	22.8	28.0	1,480	560	336	171	0.391	0.499	0.450	0.141	0.208
7486115	1x70	19.4	24.2	29.4	1,740	588	353	221	0.270	0.345	0.422	0.133	0.232
7486116	1x95	21.1	25.9	31.3	2,080	626	376	271	0.195	0.249	0.401	0.126	0.260
7486117	1x120	22.8	28.0	33.4	2,440	668	401	316	0.154	0.197	0.386	0.121	0.287
7486118	1x150	23.9	29.1	34.7	2,745	694	416	367	0.126	0.162	0.374	0.118	0.306
7486119	1x185	25.6	30.8	36.4	3,170	728	437	422	0.100	0.129	0.361	0.113	0.333
7486120	1x240	28.0	33.2	39.6	3,955	792	475	502	0.0762	0.0993	0.348	0.109	0.373
7486121	1x300	30.2	35.8	42.4	4,740	848	509	581	0.0607	0.0802	0.338	0.106	0.408
7486122	1x400	34.1	39.8	46.6	5,855	932	559	680	0.0475	0.0641	0.333	0.105	0.471
7486123	1x500	37.7	43.4	50.4	7,100	1008	605	782	0.0369	0.0515	0.320	0.100	0.530
7486124	1x630	41.7	47.5	54.7	8,720	1094	656	900	0.0286	0.0423	0.306	0.096	0.593
7486311	3x16	14.7	41.5	48.5	3,630	728	437	83	1.16	1.48	0.473	0.149	0.152
7486312	3x25	15.8	44.2	51.7	4,220	776	465	105	0.734	0.937	0.442	0.139	0.170
7486313	3x35	16.8	46.5	53.9	4,735	809	485	130	0.529	0.675	0.420	0.132	0.188
7486314	3x50	18.0	49.6	58.0	5,535	870	522	159	0.391	0.499	0.395	0.124	0.208
7486315	3x70	19.4	52.8	61.3	6,530	920	552	203	0.270	0.345	0.370	0.116	0.232
7486316	3x95	21.1	56.6	65.4	7,800	981	589	246	0.195	0.249	0.352	0.111	0.260
7486317	3x120	22.8	60.7	69.9	9,180	1049	629	286	0.154	0.197	0.336	0.106	0.287
7486318	3x150	23.9	63.3	73.1	10,465	1097	658	330	0.126	0.162	0.325	0.102	0.306
7486319	3x185	28.0	67.5	85.8	15,655	1287	772	377	0.100	0.129	0.302	0.095	0.373
7486320	3x240	30.2	73.3	92.1	18,600	1382	829	445	0.0762	0.0993	0.295	0.093	0.408

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

EXZHELLENT® 606

P2/P9, P3/P10, P4/P11, P19/P21, P20/P22 RFOU Mud Resistant Armoured Medium Voltage
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV

exZhellent 606

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TYPE P19/P21 RFOU 12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7487113	1x35	18,8	23,6	28,8	1,450	576	346	140	0,529	0,675	0,492	0,154	0,164
7487114	1x50	20,0	24,8	30,0	1,630	600	360	171	0,391	0,499	0,464	0,146	0,181
7487115	1x70	21,4	26,2	31,6	1,915	632	379	221	0,270	0,345	0,437	0,137	0,200
7487116	1x95	23,1	28,3	33,9	2,300	678	407	271	0,195	0,249	0,417	0,131	0,223
7487117	1x120	24,8	30,0	35,6	2,630	712	427	316	0,154	0,197	0,399	0,125	0,246
7487118	1x150	25,9	31,1	37,3	3,030	746	448	367	0,126	0,162	0,389	0,122	0,261
7487119	1x185	27,6	32,8	39,0	3,465	780	468	422	0,100	0,129	0,375	0,118	0,284
7487120	1x240	30,0	35,6	42,2	4,275	844	506	502	0,0762	0,0993	0,361	0,113	0,316
7487121	1x300	32,2	38,2	44,8	5,005	896	538	581	0,0607	0,0802	0,349	0,110	0,346
7487122	1x400	36,1	42,1	49,1	6,160	982	589	680	0,0475	0,0641	0,344	0,108	0,398
7487123	1x500	39,1	45,1	52,3	7,340	1046	628	782	0,0369	0,0515	0,327	0,103	0,437
7487124	1x630	43,9	49,9	58,0	9,130	1160	696	900	0,0286	0,0423	0,318	0,100	0,500
7487313	3x35	18,8	51,4	59,8	5,525	897	538	130	0,529	0,675	0,440	0,138	0,164
7487314	3x50	20,0	54,1	62,9	6,270	944	566	159	0,391	0,499	0,414	0,130	0,181
7487315	3x70	21,4	57,3	66,2	7,295	993	596	203	0,270	0,345	0,388	0,122	0,200
7487316	3x95	23,1	61,1	70,1	8,550	1052	631	246	0,195	0,249	0,368	0,116	0,223
7487317	3x120	24,8	65,1	74,4	10,055	1116	670	286	0,154	0,197	0,353	0,111	0,246
7487318	3x150	25,9	68,6	78,6	11,450	1179	707	330	0,126	0,162	0,341	0,107	0,261
7487319	3x185	27,6	72,4	82,7	13,355	1241	744	377	0,100	0,129	0,329	0,103	0,284
7487320	3x240	30,0	78,7	92,0	16,975	1380	828	445	0,0762	0,0993	0,317	0,100	0,316

TYPE P20/P22 RFOU 18/30 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius (mm)		Current ratings air 45 °C ³⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance 50 Hz (Ohm/km)	Capacitance (μF/km)
						During installation	After installation ²⁾						
7489114	1x50	25,0	30,2	35,8	2,120	716	430	171	0,391	0,499	0,499	0,157	0,141
7489115	1x70	26,4	31,6	37,8	2,515	756	454	221	0,270	0,345	0,472	0,148	0,155
7489116	1x95	28,1	33,3	39,7	2,890	794	476	271	0,195	0,249	0,449	0,141	0,171
7489117	1x120	29,8	35,4	41,8	3,340	836	502	316	0,154	0,197	0,431	0,135	0,187
7489118	1x150	30,9	36,5	43,1	3,675	862	517	367	0,126	0,162	0,418	0,131	0,198
7489119	1x185	32,6	38,6	45,4	4,210	908	545	422	0,100	0,129	0,405	0,127	0,214
7489120	1x240	35,0	41,0	48,0	4,940	960	576	502	0,0762	0,0993	0,386	0,121	0,236
7489121	1x300	37,6	43,6	50,6	5,700	1012	607	581	0,0607	0,0802	0,374	0,117	0,261
7489122	1x400	41,1	47,3	55,1	6,935	1102	661	680	0,0475	0,0641	0,367	0,115	0,293
7489123	1x500	43,8	50,6	59,0	8,205	1180	708	782	0,0369	0,0515	0,351	0,110	0,318
7489124	1x630	48,7	55,8	64,4	10,045	1288	773	900	0,0286	0,0423	0,339	0,107	0,362
7489314	3x50	25,0	65,7	75,1	8,380	1127	676	159	0,391	0,499	0,455	0,143	0,141
7489315	3x70	26,4	68,8	78,5	9,485	1178	707	203	0,270	0,345	0,427	0,134	0,155
7489316	3x95	28,1	72,7	82,6	10,930	1239	743	246	0,195	0,249	0,405	0,127	0,171
7489317	3x120	29,8	77,3	86,6	12,735	1299	779	286	0,154	0,197	0,390	0,122	0,187
7489318	3x150	30,9	79,9	90,0	14,130	1350	810	330	0,126	0,162	0,377	0,118	0,198
7489319	3x185	32,6	83,6	96,1	16,415	1442	865	377	0,100	0,129	0,363	0,114	0,214
7489320	3x240	35,0	89,0	101,9	19,585	1529	917	445	0,0762	0,0993	0,346	0,109	0,236

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Also applicable according when the bend is carefully controlled using a former or adjacent to joints and terminations.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

STANDARDS:**CONSTRUCTION:** IEC 60092-360 / IEC 60092-376 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

2. INSULATION:Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.**3. INDIVIDUAL SCREEN:**

Copper polyester tape with drain wire.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, individually screened pairs/triples cables for installation in offshore with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ωhm/km)
4506014	1x2x0.75	6.9	9.9	165	79	0.108	0.6717	26.3
4506015	1x2x1	7.4	10.5	190	84	0.124	0.6353	19.3
4506016	1x2x1.5	8.0	11.2	215	90	0.118	0.6469	12.9
4506017	1x2x2.5	8.8	11.9	255	95	0.141	0.6030	8.02
4506024	2x2x0.75	11.5	14.8	325	118	0.108	0.6717	26.3
4506025	2x2x1	12.3	15.7	360	126	0.124	0.6353	19.3
4506026	2x2x1.5	13.6	17.5	475	140	0.118	0.6469	12.9
4506027	2x2x2.5	15.1	19.0	565	152	0.141	0.6030	8.02
4506034	3x2x0.75	12.3	15.6	345	125	0.108	0.6717	26.3
4506035	3x2x1	13.2	16.5	390	132	0.124	0.6353	19.3
4506036	3x2x1.5	14.5	18.4	505	147	0.118	0.6469	12.9
4506037	3x2x2.5	16.1	20.2	620	162	0.141	0.6030	8.02
4506044	4x2x0.75	13.5	17.4	455	139	0.108	0.6717	26.3
4506045	4x2x1	14.5	18.4	515	147	0.124	0.6353	19.3
4506046	4x2x1.5	16.0	20.1	610	161	0.118	0.6469	12.9
4506047	4x2x2.5	17.8	21.9	745	175	0.141	0.6030	8.02
4506074	7x2x0.75	16.2	20.3	635	162	0.108	0.6717	26.3
4506075	7x2x1	17.5	21.6	730	173	0.124	0.6353	19.3
4506076	7x2x1.5	19.3	23.7	875	190	0.118	0.6469	12.9
4506077	7x2x2.5	21.6	26.1	1,105	209	0.141	0.6030	8.02
4506084	8x2x0.75	17.8	21.9	715	175	0.108	0.6717	26.3
4506085	8x2x1	19.2	23.5	835	188	0.124	0.6353	19.3
4506086	8x2x1.5	21.3	25.8	1,000	206	0.118	0.6469	12.9
4506087	8x2x2.5	23.8	28.5	1,275	228	0.141	0.6030	8.02
4506124	12x2x0.75	21.7	26.0	980	208	0.108	0.6717	26.3
4506125	12x2x1	23.4	27.9	1,150	223	0.124	0.6353	19.3
4506126	12x2x1.5	26.0	30.7	1,390	246	0.118	0.6469	12.9
4506127	12x2x2.5	29.5	34.4	1,820	275	0.141	0.6030	8.02
4506164	16x2x0.75	24.3	28.8	1,215	230	0.108	0.6717	26.3
4506165	16x2x1	26.3	31.0	1,435	248	0.124	0.6353	19.3
4506166	16x2x1.5	29.7	34.6	1,770	277	0.118	0.6469	12.9
4506167	16x2x2.5	33.2	38.5	2,310	308	0.141	0.6030	8.02
4506194	19x2x0.75	25.8	30.5	1,470	244	0.108	0.6717	26.3
4506195	19x2x1	27.9	32.6	1,610	261	0.124	0.6353	19.3
4506196	19x2x1.5	31.1	36.2	1,980	290	0.118	0.6469	12.9
4506197	19x2x2.5	34.8	40.1	2,560	321	0.141	0.6030	8.02
4506244	24x2x0.75	30.4	35.3	1,795	282	0.108	0.6717	26.3
4506245	24x2x1	32.9	38.0	2,055	304	0.124	0.6353	19.3
4506246	24x2x1.5	37.0	43.0	2,660	344	0.118	0.6469	12.9
4506247	24x2x2.5	41.5	47.8	3,465	382	0.141	0.6030	8.02
4506274	27x2x0.75	31.1	36.2	1,885	290	0.108	0.6717	26.3
4506275	27x2x1	33.7	38.8	2,215	310	0.124	0.6353	19.3
4506276	27x2x1.5	37.9	43.9	2,890	351	0.118	0.6469	12.9
4506277	27x2x2.5	42.5	48.8	3,740	390	0.141	0.6030	8.02
4506324	32x2x0.75	34.1	39.2	2,200	314	0.108	0.6717	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ⁽¹⁾ (mm)	Overall diameter ⁽¹⁾ (mm)	Weight ⁽¹⁾ (kg/km)	Minimum bending radius ⁽¹⁾⁽²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4506325	32x2x1	36.9	42.2	2,605	338	0.124	0.6353	19.3
4506326	32x2x1.5	41.2	47.3	3,305	378	0.118	0.6469	12.9
4506327	32x2x2.5	46.5	53.0	4,355	424	0.141	0.6030	8.02
4506374	37x2x0.75	35.5	40.8	2,440	326	0.108	0.6717	26.3
4506375	37x2x1	38.4	43.7	2,880	350	0.124	0.6353	19.3
4506376	37x2x1.5	42.8	49.1	3,675	393	0.118	0.6469	12.9
4506377	37x2x2.5	48.4	55.1	4,855	441	0.141	0.6030	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ⁽¹⁾ (mm)	Overall diameter ⁽¹⁾ (mm)	Weight ⁽¹⁾ (kg/km)	Minimum bending radius ⁽¹⁾⁽²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4507014	1x3x0.75	7.3	10.4	180	83	0.108	0.6717	26.3
4507015	1x3x1	7.8	10.9	205	87	0.124	0.6353	19.3
4507016	1x3x1.5	8.5	11.6	235	93	0.118	0.6469	12.9
4507017	1x3x2.5	9.3	12.5	285	100	0.141	0.6030	8.02
4507024	2x3x0.75	12.8	16.1	385	129	0.108	0.6717	26.3
4507025	2x3x1	13.7	17.7	485	142	0.124	0.6353	19.3
4507026	2x3x1.5	15.2	19.1	570	153	0.118	0.6469	12.9
4507027	2x3x2.5	16.9	21.0	645	168	0.141	0.6030	8.02
4507034	3x3x0.75	13.6	17.6	505	141	0.108	0.6717	26.3
4507035	3x3x1	14.7	18.6	575	149	0.124	0.6353	19.3
4507036	3x3x1.5	16.2	20.3	695	162	0.118	0.6469	12.9
4507037	3x3x2.5	18.0	22.4	875	179	0.141	0.6030	8.02
4507044	4x3x0.75	15.0	18.9	535	151	0.108	0.6717	26.3
4507045	4x3x1	16.1	20.0	610	160	0.124	0.6353	19.3
4507046	4x3x1.5	17.8	22.0	740	176	0.118	0.6469	12.9
4507047	4x3x2.5	19.9	24.2	935	194	0.141	0.6030	8.02
4507074	7x3x0.75	18.1	22.2	765	178	0.108	0.6717	26.3
4507075	7x3x1	19.5	23.8	900	190	0.124	0.6353	19.3
4507076	7x3x1.5	21.7	26.2	1,105	210	0.118	0.6469	12.9
4507077	7x3x2.5	24.2	28.9	1,425	231	0.141	0.6030	8.02
4507084	8x3x0.75	19.9	24.2	875	194	0.108	0.6717	26.3
4507085	8x3x1	21.5	25.8	1,015	206	0.124	0.6353	19.3
4507086	8x3x1.5	23.9	28.6	1,255	229	0.118	0.6469	12.9
4507087	8x3x2.5	26.7	31.6	1,615	253	0.141	0.6030	8.02
4507124	12x3x0.75	24.3	28.8	1,210	230	0.108	0.6717	26.3
4507125	12x3x1	26.3	31.1	1,435	249	0.124	0.6353	19.3
4507126	12x3x1.5	29.3	34.3	1,765	274	0.118	0.6469	12.9

⁽¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.⁽²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4507127	12x3x2.5	33.2	38.6	2,315	309	0.141	0.6030	8.02
4507164	16x3x0.75	27.4	32.2	1,515	258	0.108	0.6717	26.3
4507165	16x3x1	29.6	34.5	1,790	276	0.124	0.6353	19.3
4507166	16x3x1.5	33.4	38.7	2,290	310	0.118	0.6469	12.9
4507167	16x3x2.5	37.4	43.3	3,085	346	0.141	0.6030	8.02
4507194	19x3x0.75	29.0	34.0	1,725	272	0.108	0.6717	26.3
4507195	19x3x1	31.4	36.4	2,035	291	0.124	0.6353	19.3
4507196	19x3x1.5	35.4	40.8	2,595	326	0.118	0.6469	12.9
4507197	19x3x2.5	39.7	45.9	3,545	367	0.141	0.6030	8.02
4507244	24x3x0.75	34.6	39.9	2,225	319	0.108	0.6717	26.3
4507245	24x3x1	37.4	42.7	2,620	342	0.124	0.6353	19.3
4507246	24x3x1.5	41.7	48.0	3,400	384	0.118	0.6469	12.9
4507247	24x3x2.5	47.2	53.9	4,495	431	0.141	0.6030	8.02
4507324	32x3x0.75	38.4	44.4	2,870	355	0.108	0.6717	26.3
4507325	32x3x1	41.7	47.8	3,415	382	0.124	0.6353	19.3
4507326	32x3x1.5	46.9	53.4	4,305	427	0.118	0.6469	12.9
4507327	32x3x2.5	52.6	59.7	5,700	478	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

EXZHELLENT® 606

S2 RFOU (c) Armoured Overall Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60032-360.

Core identification: see page 21.

3. OVERALL SCREEN:

Copper polyester tape with drain wire.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ωhm/km)
4508014	1x2x0.75	6.9	9.9	165	79	0.108	0.6717	26.3
4508015	1x2x1	7.4	10.5	190	84	0.124	0.6353	19.3
4508016	1x2x1.5	8.0	11.2	215	90	0.118	0.6469	12.9
4508017	1x2x2.5	8.8	11.9	255	95	0.141	0.6030	8.02
4508024	2x2x0.75	7.9	11.0	205	88	0.074	0.6717	26.3
4508025	2x2x1	8.4	11.6	230	93	0.081	0.6353	19.3
4508026	2x2x1.5	9.2	12.4	265	99	0.078	0.6469	12.9
4508027	2x2x2.5	10.2	13.5	335	108	0.088	0.6030	8.02
4508034	3x2x0.75	10.7	14.0	290	112	0.070	0.6717	26.3
4508035	3x2x1	11.5	14.8	325	118	0.075	0.6353	19.3
4508036	3x2x1.5	12.7	16.6	430	133	0.073	0.6469	12.9
4508037	3x2x2.5	14.2	18.1	530	145	0.079	0.6030	8.02
4508044	4x2x0.75	11.7	15.0	330	120	0.070	0.6717	26.3
4508045	4x2x1	12.6	15.9	380	127	0.075	0.6353	19.3
4508046	4x2x1.5	13.9	17.8	495	142	0.073	0.6469	12.9
4508047	4x2x2.5	15.5	19.7	635	158	0.079	0.6030	8.02
4508074	7x2x0.75	14.7	18.6	515	149	0.070	0.6717	26.3
4508075	7x2x1	15.9	19.8	595	158	0.075	0.6353	19.3
4508076	7x2x1.5	17.6	21.7	730	174	0.073	0.6469	12.9
4508077	7x2x2.5	19.7	24.0	940	192	0.079	0.6030	8.02
4508084	8x2x0.75	14.7	18.8	540	150	0.070	0.6717	26.3
4508085	8x2x1	15.9	20.0	630	160	0.075	0.6353	19.3
4508086	8x2x1.5	17.6	21.9	775	175	0.073	0.6469	12.9
4508087	8x2x2.5	19.7	24.2	1,010	194	0.079	0.6030	8.02
4508124	12x2x0.75	18.1	22.4	735	179	0.070	0.6717	26.3
4508125	12x2x1	19.6	23.9	865	191	0.075	0.6353	19.3
4508126	12x2x1.5	21.8	26.6	1,085	213	0.073	0.6469	12.9
4508127	12x2x2.5	24.6	29.5	1,425	236	0.079	0.6030	8.02
4508164	16x2x0.75	19.1	23.6	870	189	0.070	0.6717	26.3
4508165	16x2x1	20.7	25.2	1,020	202	0.075	0.6353	19.3
4508166	16x2x1.5	23.1	28.0	1,290	224	0.073	0.6469	12.9
4508167	16x2x2.5	25.9	31.0	1,740	248	0.079	0.6030	8.02
4508194	19x2x0.75	22.1	26.6	1,035	213	0.070	0.6717	26.3
4508195	19x2x1	24.0	28.5	1,215	228	0.075	0.6353	19.3
4508196	19x2x1.5	26.8	31.7	1,550	254	0.073	0.6469	12.9
4508197	19x2x2.5	30.5	35.6	2,090	285	0.079	0.6030	8.02
4508244	24x2x0.75	24.5	29.4	1,245	235	0.070	0.6717	26.3
4508245	24x2x1	26.7	31.6	1,475	253	0.075	0.6353	19.3
4508246	24x2x1.5	30.2	35.5	1,910	284	0.073	0.6469	12.9
4508247	24x2x2.5	33.9	40.1	2,665	321	0.079	0.6030	8.02
4508274	27x2x0.75	25.5	30.4	1,355	243	0.070	0.6717	26.3
4508275	27x2x1	27.7	32.6	1,595	261	0.075	0.6353	19.3
4508276	27x2x1.5	31.4	36.7	2,090	294	0.073	0.6469	12.9
4508277	27x2x2.5	35.4	41.5	2,905	332	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4508324	32x2x0.75	26.5	31.6	1,510	253	0.070	0.6717	26.3
4508325	32x2x1	29.2	34.3	1,825	274	0.075	0.6353	19.3
4508326	32x2x1.5	32.7	38.6	2,440	309	0.073	0.6469	12.9
4508327	32x2x2.5	37.1	43.5	3,320	348	0.079	0.6030	8.02
4508374	37x2x0.75	28.7	33.8	1,720	270	0.070	0.6717	26.3
4508375	37x2x1	31.1	36.2	2,040	290	0.075	0.6353	19.3
4508376	37x2x1.5	34.9	41.0	2,750	328	0.073	0.6469	12.9
4508377	37x2x2.5	39.6	46.1	3,750	369	0.079	0.6030	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4509014	1x3x0.75	7.3	10.4	180	83	0.108	0.6717	26.3
4509015	1x3x1	7.8	10.9	205	87	0.124	0.6353	19.3
4509016	1x3x1.5	8.5	11.6	235	93	0.118	0.6469	12.9
4509017	1x3x2.5	9.3	12.5	285	100	0.141	0.6030	8.02
4509024	2x3x0.75	10.3	13.7	305	110	0.070	0.6717	26.3
4509025	2x3x1	11.1	14.4	345	115	0.075	0.6353	19.3
4509026	2x3x1.5	12.2	16.1	450	129	0.073	0.6469	12.9
4509027	2x3x2.5	13.6	17.7	565	142	0.079	0.6030	8.02
4509034	3x3x0.75	11.4	14.7	335	118	0.070	0.6717	26.3
4509035	3x3x1	12.3	16.2	425	130	0.075	0.6353	19.3
4509036	3x3x1.5	13.6	17.5	510	140	0.073	0.6469	12.9
4509037	3x3x2.5	15.1	19.2	650	154	0.079	0.6030	8.02
4509044	4x3x0.75	12.5	16.4	435	131	0.070	0.6717	26.3
4509045	4x3x1	13.4	17.3	500	138	0.075	0.6353	19.3
4509046	4x3x1.5	14.8	18.9	605	151	0.073	0.6469	12.9
4509047	4x3x2.5	16.6	20.9	785	167	0.079	0.6030	8.02
4509074	7x3x0.75	15.7	19.8	630	158	0.070	0.6717	26.3
4509075	7x3x1	16.9	21.0	730	168	0.075	0.6353	19.3
4509076	7x3x1.5	18.8	23.1	910	185	0.073	0.6469	12.9
4509077	7x3x2.5	21.1	25.6	1,195	205	0.079	0.6030	8.02
4509084	8x3x0.75	15.7	20.0	670	160	0.070	0.6717	26.3
4509085	8x3x1	16.9	21.2	780	170	0.075	0.6353	19.3
4509086	8x3x1.5	18.8	23.3	980	186	0.073	0.6469	12.9
4509087	8x3x2.5	21.1	25.8	1,290	206	0.079	0.6030	8.02
4509124	12x3x0.75	19.4	23.9	920	191	0.070	0.6717	26.3
4509125	12x3x1	21.0	25.5	1,085	204	0.075	0.6353	19.3
4509126	12x3x1.5	23.5	28.4	1,385	227	0.073	0.6469	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour. ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4509127	12x3x2.5	26.3	31.4	1,845	251	0.079	0.6030	8.02
4509164	16x3x0.75	20.4	25.2	1,095	202	0.070	0.6717	26.3
4509165	16x3x1	22.2	26.9	1,300	215	0.075	0.6353	19.3
4509166	16x3x1.5	24.8	29.9	1,675	239	0.073	0.6469	12.9
4509167	16x3x2.5	28.2	33.5	2,295	268	0.079	0.6030	8.02
4509194	19x3x0.75	23.6	28.4	1,300	227	0.070	0.6717	26.3
4509195	19x3x1	25.7	30.6	1,560	245	0.075	0.6353	19.3
4509196	19x3x1.5	29.1	34.2	2,030	274	0.073	0.6469	12.9
4509197	19x3x2.5	32.7	38.6	2,840	309	0.079	0.6030	8.02
4509244	24x3x0.75	25.7	30.8	1,580	246	0.070	0.6717	26.3
4509245	24x3x1	27.9	33.0	1,880	264	0.075	0.6353	19.3
4509246	24x3x1.5	31.2	37.3	2,540	298	0.073	0.6469	12.9
4509247	24x3x2.5	35.5	42.0	3,480	336	0.079	0.6030	8.02
4509324	32x3x0.75	28.8	34.1	1,975	273	0.070	0.6717	26.3
4509325	32x3x1	31.3	36.8	2,380	294	0.075	0.6353	19.3
4509326	32x3x1.5	35.1	41.4	3,190	331	0.073	0.6469	12.9
4509327	32x3x2.5	39.9	46.6	4,405	373	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

EXZHELLENT® 606

S11 RU (i) Non Armoured Individually Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

4. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4510014	1x2x0.75	6.9	75	55	0.108	0.6717	26.3
4510015	1x2x1	7.4	88	59	0.124	0.6353	19.3
4510016	1x2x1.5	8.0	110	64	0.118	0.6469	12.9
4510017	1x2x2.5	9.0	145	72	0.141	0.6030	8.02
4510024	2x2x0.75	11.7	195	94	0.108	0.6717	26.3
4510025	2x2x1	12.5	225	100	0.124	0.6353	19.3
4510026	2x2x1.5	14.0	230	112	0.118	0.6469	12.9
4510027	2x2x2.5	15.7	305	126	0.141	0.6030	8.02
4510034	3x2x0.75	12.5	240	100	0.108	0.6717	26.3
4510035	3x2x1	13.6	290	109	0.124	0.6353	19.3
4510036	3x2x1.5	14.9	355	119	0.118	0.6469	12.9
4510037	3x2x2.5	16.7	470	134	0.141	0.6030	8.02
4510044	4x2x0.75	13.9	255	111	0.108	0.6717	26.3
4510045	4x2x1	14.9	295	119	0.124	0.6353	19.3
4510046	4x2x1.5	16.6	375	133	0.118	0.6469	12.9
4510047	4x2x2.5	18.6	490	149	0.141	0.6030	8.02
4510074	7x2x0.75	16.8	400	134	0.108	0.6717	26.3
4510075	7x2x1	18.1	480	145	0.124	0.6353	19.3
4510076	7x2x1.5	20.1	605	161	0.118	0.6469	12.9
4510077	7x2x2.5	22.6	810	181	0.141	0.6030	8.02
4510084	8x2x0.75	18.4	460	147	0.108	0.6717	26.3
4510085	8x2x1	20.0	560	160	0.124	0.6353	19.3
4510086	8x2x1.5	22.3	705	178	0.118	0.6469	12.9
4510087	8x2x2.5	25.0	940	200	0.141	0.6030	8.02
4510124	12x2x0.75	22.7	685	182	0.108	0.6717	26.3
4510125	12x2x1	24.4	820	195	0.124	0.6353	19.3
4510126	12x2x1.5	27.2	1,025	218	0.118	0.6469	12.9
4510127	12x2x2.5	30.5	1,380	244	0.141	0.6030	8.02
4510164	16x2x0.75	25.3	875	202	0.108	0.6717	26.3
4510165	16x2x1	27.5	1,065	220	0.124	0.6353	19.3
4510166	16x2x1.5	30.7	1,325	246	0.118	0.6469	12.9
4510167	16x2x2.5	34.6	1,795	277	0.141	0.6030	8.02
4510194	19x2x0.75	27.0	1,020	216	0.108	0.6717	26.3
4510195	19x2x1	29.1	1,225	233	0.124	0.6353	19.3
4510196	19x2x1.5	32.7	1,565	262	0.118	0.6469	12.9
4510197	19x2x2.5	36.6	2,095	293	0.141	0.6030	8.02
4510244	24x2x0.75	31.8	1,315	254	0.108	0.6717	26.3
4510245	24x2x1	34.5	1,600	276	0.124	0.6353	19.3
4510246	24x2x1.5	38.6	2,015	309	0.118	0.6469	12.9
4510247	24x2x2.5	43.5	2,740	348	0.141	0.6030	8.02
4510274	27x2x0.75	32.7	1,450	262	0.108	0.6717	26.3
4510275	27x2x1	35.3	1,745	282	0.124	0.6353	19.3
4510276	27x2x1.5	39.5	2,225	316	0.118	0.6469	12.9
4510277	27x2x2.5	44.5	3,000	356	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4510324	32x2x0.75	35.3	1,690	282	0.108	0.6717	26.3
4510325	32x2x1	38.3	2,055	306	0.124	0.6353	19.3
4510326	32x2x1.5	43.0	2,620	344	0.118	0.6469	12.9
4510327	32x2x2.5	48.3	3,535	386	0.141	0.6030	8.02
4510374	37x2x0.75	36.9	1,910	295	0.108	0.6717	26.3
4510375	37x2x1	39.8	2,310	318	0.124	0.6353	19.3
4510376	37x2x1.5	44.8	2,965	358	0.118	0.6469	12.9
4510377	37x2x2.5	50.4	4,005	403	0.141	0.6030	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4511014	1x3x0.75	7.3	84	58	0.108	0.6717	26.3
4511015	1x3x1	7.8	100	62	0.124	0.6353	19.3
4511016	1x3x1.5	8.5	125	68	0.118	0.6469	12.9
4511017	1x3x2.5	9.5	170	76	0.141	0.6030	8.02
4511024	2x3x0.75	13.2	245	106	0.108	0.6717	26.3
4511025	2x3x1	14.1	290	113	0.124	0.6353	19.3
4511026	2x3x1.5	15.8	365	126	0.118	0.6469	12.9
4511027	2x3x2.5	17.5	475	140	0.141	0.6030	8.02
4511034	3x3x0.75	14.0	255	112	0.108	0.6717	26.3
4511035	3x3x1	15.1	305	121	0.124	0.6353	19.3
4511036	3x3x1.5	16.8	390	134	0.118	0.6469	12.9
4511037	3x3x2.5	18.8	525	150	0.141	0.6030	8.02
4511044	4x3x0.75	15.4	320	123	0.108	0.6717	26.3
4511045	4x3x1	16.7	390	134	0.124	0.6353	19.3
4511046	4x3x1.5	18.4	485	147	0.118	0.6469	12.9
4511047	4x3x2.5	20.7	660	166	0.141	0.6030	8.02
4511074	7x3x0.75	18.7	505	150	0.108	0.6717	26.3
4511075	7x3x1	20.3	620	162	0.124	0.6353	19.3
4511076	7x3x1.5	22.7	795	182	0.118	0.6469	12.9
4511077	7x3x2.5	25.4	1,080	203	0.141	0.6030	8.02
4511084	8x3x0.75	20.7	595	166	0.108	0.6717	26.3
4511085	8x3x1	22.3	715	178	0.124	0.6353	19.3
4511086	8x3x1.5	25.1	925	201	0.118	0.6469	12.9
4511087	8x3x2.5	28.1	1,260	225	0.141	0.6030	8.02
4511124	12x3x0.75	25.5	880	204	0.108	0.6717	26.3
4511125	12x3x1	27.5	1,060	220	0.124	0.6353	19.3
4511126	12x3x1.5	30.7	1,360	246	0.118	0.6469	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4511127	12x3x2.5	34.6	1,870	277	0.141	0.6030	8.02
4511164	16x3x0.75	28.6	1,125	229	0.108	0.6717	26.3
4511165	16x3x1	31.0	1,375	248	0.124	0.6353	19.3
4511166	16x3x1.5	34.8	1,785	278	0.118	0.6469	12.9
4511167	16x3x2.5	39.0	2,430	312	0.141	0.6030	8.02
4511194	19x3x0.75	30.4	1,310	243	0.108	0.6717	26.3
4511195	19x3x1	32.8	1,590	262	0.124	0.6353	19.3
4511196	19x3x1.5	36.8	2,060	294	0.118	0.6469	12.9
4511197	19x3x2.5	41.5	2,840	332	0.141	0.6030	8.02
4511244	24x3x0.75	36.0	1,710	288	0.108	0.6717	26.3
4511245	24x3x1	38.8	2,065	310	0.124	0.6353	19.3
4511246	24x3x1.5	43.7	2,695	350	0.118	0.6469	12.9
4511247	24x3x2.5	49.2	3,695	394	0.141	0.6030	8.02
4511324	32x3x0.75	40.0	2,165	320	0.108	0.6717	26.3
4511325	32x3x1	43.5	2,635	348	0.124	0.6353	19.3
4511326	32x3x1.5	48.7	3,420	390	0.118	0.6469	12.9
4511327	32x3x2.5	54.8	4,705	438	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

STANDARDS:**CONSTRUCTION:** IEC 60092-360 / IEC 60092-376 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. OVERALL SCREEN:

Copper polyester tape with drain wire.

4. OUTER SHEATH:

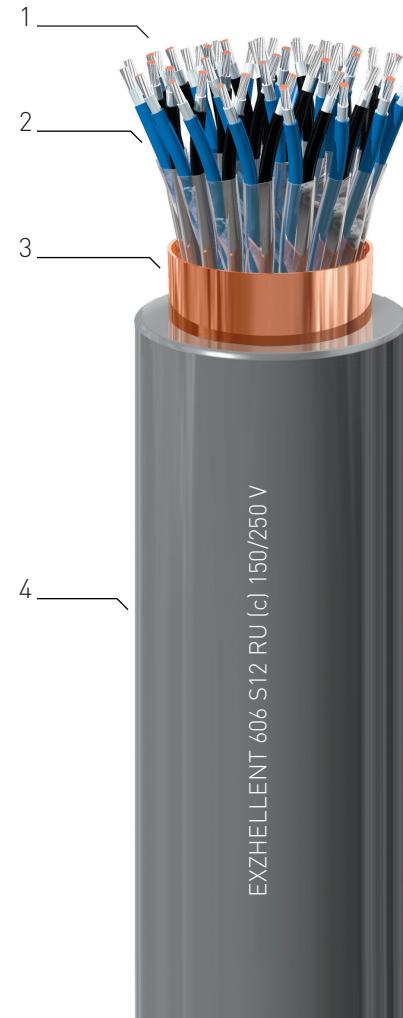
Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4512014	1x2x0.75	6.9	75	55	0.108	0.6717	26.3
4512015	1x2x1	7.4	88	59	0.124	0.6353	19.3
4512016	1x2x1.5	8.0	110	64	0.118	0.6469	12.9
4512017	1x2x2.5	9.0	145	72	0.141	0.6030	8.02
4512024	2x2x0.75	7.9	97	63	0.074	0.6717	26.3
4512025	2x2x1	8.4	120	67	0.081	0.6353	19.3
4512026	2x2x1.5	9.4	150	75	0.078	0.6469	12.9
4512027	2x2x2.5	10.4	200	83	0.088	0.6030	8.02
4512034	3x2x0.75	10.9	160	87	0.070	0.6717	26.3
4512035	3x2x1	11.7	190	94	0.075	0.6353	19.3
4512036	3x2x1.5	13.1	245	105	0.073	0.6469	12.9
4512037	3x2x2.5	14.8	330	118	0.079	0.6030	8.02
4512044	4x2x0.75	11.9	195	95	0.070	0.6717	26.3
4512045	4x2x1	13.0	240	104	0.075	0.6353	19.3
4512046	4x2x1.5	14.4	300	115	0.073	0.6469	12.9
4512047	4x2x2.5	16.1	410	129	0.079	0.6030	8.02
4512074	7x2x0.75	15.1	305	121	0.070	0.6717	26.3
4512075	7x2x1	16.5	375	132	0.075	0.6353	19.3
4512076	7x2x1.5	18.4	490	147	0.073	0.6469	12.9
4512077	7x2x2.5	20.5	665	164	0.079	0.6030	8.02
4512084	8x2x0.75	15.3	335	122	0.070	0.6717	26.3
4512085	8x2x1	16.5	405	132	0.075	0.6353	19.3
4512086	8x2x1.5	18.4	530	147	0.073	0.6469	12.9
4512087	8x2x2.5	20.7	725	166	0.079	0.6030	8.02
4512124	12x2x0.75	18.9	485	151	0.070	0.6717	26.3
4512125	12x2x1	20.4	585	163	0.075	0.6353	19.3
4512126	12x2x1.5	23.1	785	185	0.073	0.6469	12.9
4512127	12x2x2.5	26.0	1,085	208	0.079	0.6030	8.02
4512164	16x2x0.75	20.1	600	161	0.070	0.6717	26.3
4512165	16x2x1	21.7	725	174	0.075	0.6353	19.3
4512166	16x2x1.5	24.5	975	196	0.073	0.6469	12.9
4512167	16x2x2.5	27.5	1,355	220	0.079	0.6030	8.02
4512194	19x2x0.75	23.1	725	185	0.070	0.6717	26.3
4512195	19x2x1	25.2	890	202	0.075	0.6353	19.3
4512196	19x2x1.5	28.2	1,175	226	0.073	0.6469	12.9
4512197	19x2x2.5	31.7	1,640	254	0.079	0.6030	8.02
4512244	24x2x0.75	25.9	910	207	0.070	0.6717	26.3
4512245	24x2x1	28.1	1,105	225	0.075	0.6353	19.3
4512246	24x2x1.5	31.6	1,475	253	0.073	0.6469	12.9
4512247	24x2x2.5	35.8	2,075	286	0.079	0.6030	8.02
4512274	27x2x0.75	26.9	995	215	0.070	0.6717	26.3
4512275	27x2x1	29.1	1,215	233	0.075	0.6353	19.3
4512276	27x2x1.5	32.8	1,625	262	0.073	0.6469	12.9
4512277	27x2x2.5	37.2	2,285	298	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4512324	32x2x0.75	28.1	1,140	225	0.070	0.6717	26.3
4512325	32x2x1	30.4	1,390	243	0.075	0.6353	19.3
4512326	32x2x1.5	34.3	1,865	274	0.073	0.6469	12.9
4512327	32x2x2.5	38.7	2,635	310	0.079	0.6030	8.02
4512374	37x2x0.75	29.9	1,290	239	0.070	0.6717	26.3
4512375	37x2x1	32.5	1,600	260	0.075	0.6353	19.3
4512376	37x2x1.5	36.7	2,140	294	0.073	0.6469	12.9
4512377	37x2x2.5	41.4	3,025	331	0.079	0.6030	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4513014	1x3x0.75	7.3	84	58	0.108	0.6717	26.3
4513015	1x3x1	7.8	100	62	0.124	0.6353	19.3
4513016	1x3x1.5	8.5	125	68	0.118	0.6469	12.9
4513017	1x3x2.5	9.5	170	76	0.141	0.6030	8.02
4513024	2x3x0.75	10.5	180	84	0.070	0.6717	26.3
4513025	2x3x1	11.3	175	90	0.075	0.6353	19.3
4513026	2x3x1.5	12.6	225	101	0.073	0.6469	12.9
4513027	2x3x2.5	14.2	310	114	0.079	0.6030	8.02
4513034	3x3x0.75	11.8	205	94	0.070	0.6717	26.3
4513035	3x3x1	12.7	245	102	0.075	0.6353	19.3
4513036	3x3x1.5	14.2	320	114	0.073	0.6469	12.9
4513037	3x3x2.5	15.7	430	126	0.079	0.6030	8.02
4513044	4x3x0.75	12.9	250	103	0.070	0.6717	26.3
4513045	4x3x1	13.8	305	110	0.075	0.6353	19.3
4513046	4x3x1.5	15.5	395	124	0.073	0.6469	12.9
4513047	4x3x2.5	17.4	550	139	0.079	0.6030	8.02
4513074	7x3x0.75	16.3	405	130	0.070	0.6717	26.3
4513075	7x3x1	17.5	490	140	0.075	0.6353	19.3
4513076	7x3x1.5	19.6	645	157	0.073	0.6469	12.9
4513077	7x3x2.5	22.1	895	177	0.079	0.6030	8.02
4513084	8x3x0.75	16.5	440	132	0.070	0.6717	26.3
4513085	8x3x1	17.7	540	142	0.075	0.6353	19.3
4513086	8x3x1.5	19.8	710	158	0.073	0.6469	12.9
4513087	8x3x2.5	22.3	990	178	0.079	0.6030	8.02
4513124	12x3x0.75	20.4	645	163	0.070	0.6717	26.3
4513125	12x3x1	22.0	790	176	0.075	0.6353	19.3
4513126	12x3x1.5	24.9	1,055	199	0.073	0.6469	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4513127	12x3x2.5	27.9	1,480	223	0.079	0.6030	8.02
4513164	16x3x0.75	21.6	805	173	0.070	0.6717	26.3
4513165	16x3x1	23.4	985	187	0.075	0.6353	19.3
4513166	16x3x1.5	26.4	1,325	211	0.073	0.6469	12.9
4513167	16x3x2.5	29.6	1,870	237	0.079	0.6030	8.02
4513194	19x3x0.75	24.8	970	198	0.070	0.6717	26.3
4513195	19x3x1	27.1	1,200	217	0.075	0.6353	19.3
4513196	19x3x1.5	30.3	1,600	242	0.073	0.6469	12.9
4513197	19x3x2.5	34.3	2,270	274	0.079	0.6030	8.02
4513244	24x3x0.75	26.9	1,195	215	0.070	0.6717	26.3
4513245	24x3x1	29.1	1,465	233	0.075	0.6353	19.3
4513246	24x3x1.5	33.0	1,985	264	0.073	0.6469	12.9
4513247	24x3x2.5	37.1	2,800	297	0.079	0.6030	8.02
4513324	32x3x0.75	30.2	1,540	242	0.070	0.6717	26.3
4513325	32x3x1	32.9	1,915	263	0.075	0.6353	19.3
4513326	32x3x1.5	37.1	2,575	297	0.073	0.6469	12.9
4513327	32x3x2.5	41.9	3,665	335	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

STANDARDS:**CONSTRUCTION:** IEC 60092-360 / IEC 60092-376 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

2. INSULATION:Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.**3. INDIVIDUAL SCREEN:**

Copper polyester tape with drain wire.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, individually and overall screened pairs/triples cables for installation in offshore with special performances on flame spread and low emission of smoke and fumes.

Oil resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (pF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4522024	2x2x0.75	11.7	15.1	310	121	0.108	0.6717	26.3
4522025	2x2x1	12.6	15.9	365	127	0.124	0.6353	19.3
4522026	2x2x1.5	13.8	17.7	450	142	0.118	0.6469	12.9
4522027	2x2x2.5	15.3	19.2	565	154	0.141	0.6030	8.02
4522034	3x2x0.75	12.5	15.8	360	126	0.108	0.6717	26.3
4522035	3x2x1	13.4	16.7	410	134	0.124	0.6353	19.3
4522036	3x2x1.5	14.7	18.7	530	150	0.118	0.6469	12.9
4522037	3x2x2.5	16.3	20.5	650	164	0.141	0.6030	8.02
4522044	4x2x0.75	13.7	17.6	470	141	0.108	0.6717	26.3
4522045	4x2x1	14.7	18.6	535	149	0.124	0.6353	19.3
4522046	4x2x1.5	16.3	20.4	635	163	0.118	0.6469	12.9
4522047	4x2x2.5	18.1	22.2	775	178	0.141	0.6030	8.02
4522074	7x2x0.75	16.5	20.6	660	165	0.108	0.6717	26.3
4522075	7x2x1	17.7	21.8	760	174	0.124	0.6353	19.3
4522076	7x2x1.5	19.6	23.9	915	191	0.118	0.6469	12.9
4522077	7x2x2.5	21.8	26.3	1,155	210	0.141	0.6030	8.02
4522084	8x2x0.75	18.0	22.1	740	177	0.108	0.6717	26.3
4522085	8x2x1	19.4	23.7	860	190	0.124	0.6353	19.3
4522086	8x2x1.5	21.5	26.0	1,045	208	0.118	0.6469	12.9
4522087	8x2x2.5	24.0	28.7	1,310	230	0.141	0.6030	8.02
4522124	12x2x0.75	21.9	26.2	1,005	210	0.108	0.6717	26.3
4522125	12x2x1	23.6	28.1	1,180	225	0.124	0.6353	19.3
4522126	12x2x1.5	26.2	30.9	1,430	247	0.118	0.6469	12.9
4522127	12x2x2.5	29.3	34.2	1,820	274	0.141	0.6030	8.02
4522164	16x2x0.75	24.6	29.1	1,245	233	0.108	0.6717	26.3
4522165	16x2x1	26.9	31.6	1,495	253	0.124	0.6353	19.3
4522166	16x2x1.5	29.5	34.4	1,785	275	0.118	0.6469	12.9
4522167	16x2x2.5	33.4	38.7	2,345	310	0.141	0.6030	8.02
4522194	19x2x0.75	26.0	30.8	1,410	246	0.108	0.6717	26.3
4522195	19x2x1	28.2	32.9	1,650	263	0.124	0.6353	19.3
4522196	19x2x1.5	31.3	36.4	2,035	291	0.118	0.6469	12.9
4522197	19x2x2.5	35.5	40.8	2,655	326	0.141	0.6030	8.02
4522244	24x2x0.75	30.6	35.5	1,765	284	0.108	0.6717	26.3
4522245	24x2x1	33.1	38.2	2,090	306	0.124	0.6353	19.3
4522246	24x2x1.5	37.3	43.2	2,720	346	0.118	0.6469	12.9
4522247	24x2x2.5	41.7	48.0	3,505	384	0.141	0.6030	8.02
4522274	27x2x0.75	31.3	36.5	1,915	292	0.108	0.6717	26.3
4522275	27x2x1	34.3	39.4	2,285	315	0.124	0.6353	19.3
4522276	27x2x1.5	38.2	44.1	2,925	353	0.118	0.6469	12.9
4522277	27x2x2.5	42.8	49.1	3,780	393	0.141	0.6030	8.02
4522324	32x2x0.75	34.4	39.5	2,230	316	0.108	0.6717	26.3
4522325	32x2x1	37.2	42.5	2,640	340	0.124	0.6353	19.3
4522326	32x2x1.5	41.4	47.5	3,375	380	0.118	0.6469	12.9
4522327	32x2x2.5	46.8	53.3	4,425	426	0.141	0.6030	8.02
4522374	37x2x0.75	35.7	41.0	2,475	328	0.108	0.6717	26.3
4522375	37x2x1	38.6	43.9	2,915	351	0.124	0.6353	19.3
4522376	37x2x1.5	43.0	49.3	3,750	394	0.118	0.6469	12.9
4522377	37x2x2.5	48.6	55.3	4,930	442	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4523024	2x3x0.75	13.0	16.3	365	130	0.108	0.6717	26.3
4523025	2x3x1	14.0	17.9	460	143	0.124	0.6353	19.3
4523026	2x3x1.5	15.4	19.3	535	154	0.118	0.6469	12.9
4523027	2x3x2.5	17.1	21.2	665	170	0.141	0.6030	8.02
4523034	3x3x0.75	13.9	17.8	480	142	0.108	0.6717	26.3
4523035	3x3x1	14.9	18.8	545	150	0.124	0.6353	19.3
4523036	3x3x1.5	16.5	20.6	650	165	0.118	0.6469	12.9
4523037	3x3x2.5	18.3	22.6	815	181	0.141	0.6030	8.02
4523044	4x3x0.75	15.2	19.1	555	153	0.108	0.6717	26.3
4523045	4x3x1	16.4	20.3	640	162	0.124	0.6353	19.3
4523046	4x3x1.5	18.1	22.2	765	178	0.118	0.6469	12.9
4523047	4x3x2.5	20.1	24.4	970	195	0.141	0.6030	8.02
4523074	7x3x0.75	18.3	22.5	780	180	0.108	0.6717	26.3
4523075	7x3x1	19.8	24.1	910	193	0.124	0.6353	19.3
4523076	7x3x1.5	21.9	26.4	1,115	211	0.118	0.6469	12.9
4523077	7x3x2.5	24.5	29.2	1,435	234	0.141	0.6030	8.02
4523084	8x3x0.75	20.2	24.5	900	196	0.108	0.6717	26.3
4523085	8x3x1	21.7	26.1	1,045	209	0.124	0.6353	19.3
4523086	8x3x1.5	24.1	28.8	1,295	230	0.118	0.6469	12.9
4523087	8x3x2.5	27.0	31.9	1,675	255	0.141	0.6030	8.02
4523124	12x3x0.75	24.6	29.1	1,245	233	0.108	0.6717	26.3
4523125	12x3x1	26.6	31.3	1,470	250	0.124	0.6353	19.3
4523126	12x3x1.5	29.5	34.4	1,800	275	0.118	0.6469	12.9
4523127	12x3x2.5	33.5	38.8	2,410	310	0.141	0.6030	8.02
4523164	16x3x0.75	27.6	32.3	1,535	258	0.108	0.6717	26.3
4523165	16x3x1	29.9	34.8	1,830	278	0.124	0.6353	19.3
4523166	16x3x1.5	33.6	39.0	2,330	312	0.118	0.6469	12.9
4523194	19x3x0.75	29.2	34.2	1,745	274	0.108	0.6717	26.3
4523195	19x3x1	31.7	36.6	2,055	293	0.124	0.6353	19.3
4523196	19x3x1.5	35.7	41.0	2,620	328	0.118	0.6469	12.9
4523197	19x3x2.5	39.9	46.0	3,570	368	0.141	0.6030	8.02
4523244	24x3x0.75	34.8	40.1	2,255	321	0.108	0.6717	26.3
4523245	24x3x1	37.7	43.0	2,655	344	0.124	0.6353	19.3
4523246	24x3x1.5	42.0	48.3	3,460	386	0.118	0.6469	12.9
4523247	24x3x2.5	47.4	54.2	4,600	434	0.141	0.6030	8.02
4523324	32x3x0.75	38.7	44.6	2,905	357	0.108	0.6717	26.3
4523325	32x3x1	41.9	48.0	3,450	384	0.124	0.6353	19.3
4523326	32x3x1.5	47.1	53.6	4,370	429	0.118	0.6469	12.9
4523327	32x3x2.5	52.8	59.9	5,805	479	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.



STANDARDS:**CONSTRUCTION:** IEC 60092-360 / IEC 60092-376 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

2. INSULATION:Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.**3. INDIVIDUAL SCREEN:**

Copper polyester tape with drain wire.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured, individually screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4273014	1x2x0.75	7.3	10.4	195	83	0.097	0.7050	26.3
4273015	1x2x1	8.2	11.4	235	91	0.101	0.6942	19.3
4273016	1x2x1.5	8.0	11.3	240	90	0.118	0.6469	12.9
4273017	1x2x2.5	9.2	12.4	295	99	0.128	0.6269	8.02
4273024	2x2x0.75	11.6	15.0	365	120	0.097	0.7050	26.3
4273025	2x2x1	13.1	16.5	440	132	0.101	0.6942	19.3
4273026	2x2x1.5	13.6	17.6	525	141	0.108	0.6740	12.9
4273027	2x2x2.5	15.0	19.2	625	154	0.128	0.6269	8.02
4273034	3x2x0.75	12.3	16.8	435	134	0.097	0.7050	26.3
4273035	3x2x1	13.1	17.7	480	142	0.111	0.6658	19.3
4273036	3x2x1.5	14.4	18.6	560	149	0.108	0.6740	12.9
4273037	3x2x2.5	15.8	20.2	680	162	0.128	0.6269	8.02
4273044	4x2x0.75	13.4	17.5	500	140	0.097	0.7050	26.3
4273045	4x2x1	15.2	19.4	605	155	0.101	0.6942	19.3
4273046	4x2x1.5	14.9	19.1	635	153	0.118	0.6469	12.9
4273047	4x2x2.5	17.4	21.8	815	174	0.128	0.6269	8.02
4273074	7x2x0.75	17.1	21.5	760	172	0.089	0.7357	26.3
4273075	7x2x1	18.3	22.7	865	182	0.101	0.6942	19.3
4273076	7x2x1.5	18.9	23.5	965	188	0.108	0.6740	12.9
4273077	7x2x2.5	21.0	25.8	1,205	206	0.128	0.6269	8.02
4273084	8x2x0.75	18.8	23.2	855	186	0.089	0.7357	26.3
4273085	8x2x1	20.1	24.7	990	198	0.101	0.6942	19.3
4273086	8x2x1.5	19.6	24.3	1,040	194	0.118	0.6469	12.9
4273087	8x2x2.5	23.1	28.1	1,410	225	0.128	0.6269	8.02
4273124	12x2x0.75	21.4	26.0	1,090	208	0.097	0.7050	26.3
4273125	12x2x1	24.4	29.2	1,360	234	0.101	0.6942	19.3
4273126	12x2x1.5	23.9	28.9	1,455	231	0.118	0.6469	12.9
4273127	12x2x2.5	28.1	33.3	1,935	266	0.128	0.6269	8.02
4273164	16x2x0.75	23.8	28.6	1,350	229	0.097	0.7050	26.3
4273165	16x2x1	27.2	32.2	1,690	258	0.101	0.6942	19.3
4273166	16x2x1.5	28.3	33.5	1,915	268	0.108	0.6740	12.9
4273167	16x2x2.5	31.9	37.5	2,475	300	0.128	0.6269	8.02
4273194	19x2x0.75	26.9	31.9	1,640	255	0.089	0.7357	26.3
4273195	19x2x1	25.3	30.3	1,675	242	0.124	0.6353	19.3
4273196	19x2x1.5	28.2	33.6	2,070	269	0.118	0.6469	12.9
4273197	19x2x2.5	31.9	37.5	2,700	300	0.141	0.6030	8.02
4273244	24x2x0.75	31.5	36.7	2,060	294	0.089	0.7357	26.3
4273245	24x2x1	33.8	39.2	2,410	314	0.101	0.6942	19.3
4273246	24x2x1.5	35.5	41.7	2,880	334	0.108	0.6740	12.9
4273247	24x2x2.5	39.5	46.1	3,705	369	0.128	0.6269	8.02
4273274	27x2x0.75	30.5	35.9	2,180	287	0.097	0.7050	26.3
4273275	27x2x1	32.8	38.2	2,460	306	0.111	0.6658	19.3
4273276	27x2x1.5	36.3	42.5	3,095	340	0.108	0.6740	12.9
4273277	27x2x2.5	40.8	47.4	4,020	379	0.128	0.6269	8.02
4273324	32x2x0.75	35.2	40.6	2,670	325	0.089	0.7357	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1[2]} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4273325	32x2x1	37.7	43.3	3,045	346	0.101	0.6942	19.3
4273326	32x2x1.5	39.2	45.6	3,570	365	0.108	0.6740	12.9
4273327	32x2x2.5	44.0	50.8	4,645	406	0.128	0.6269	8.02
4273374	37x2x0.75	34.2	39.8	2,685	318	0.097	0.7050	26.3
4273375	37x2x1	36.8	43.0	3,260	344	0.111	0.6658	19.3
4273376	37x2x1.5	40.7	47.3	3,975	378	0.108	0.6740	12.9
4273377	37x2x2.5	45.7	53.1	5,210	425	0.128	0.6269	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1[2]} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4283014	1x3x0.75	8.2	11.4	230	91	0.089	0.7357	26.3
4283015	1x3x1	8.7	11.9	255	95	0.101	0.6942	19.3
4283016	1x3x1.5	8.9	12.2	275	98	0.108	0.6740	12.9
4283017	1x3x2.5	9.8	13.0	325	104	0.128	0.6269	8.02
4283024	2x3x0.75	13.7	17.9	525	143	0.089	0.7357	26.3
4283025	2x3x1	14.6	18.8	585	150	0.101	0.6942	19.3
4283026	2x3x1.5	15.1	19.6	645	157	0.108	0.6740	12.9
4283027	2x3x2.5	16.7	20.9	770	167	0.128	0.6269	8.02
4283034	3x3x0.75	13.7	18.4	570	147	0.097	0.7050	26.3
4283035	3x3x1	15.5	19.7	690	158	0.101	0.6942	19.3
4283036	3x3x1.5	15.2	19.4	710	155	0.118	0.6469	12.9
4283037	3x3x2.5	16.9	22.0	825	176	0.141	0.6030	8.02
4283044	4x3x0.75	15.0	19.2	605	154	0.097	0.7050	26.3
4283045	4x3x1	17.0	21.4	750	171	0.101	0.6942	19.3
4283046	4x3x1.5	17.6	22.1	820	177	0.108	0.6740	12.9
4283047	4x3x2.5	19.5	24.1	1,030	193	0.128	0.6269	8.02
4283074	7x3x0.75	19.2	23.6	935	189	0.089	0.7357	26.3
4283075	7x3x1	20.5	25.1	1,080	201	0.101	0.6942	19.3
4283076	7x3x1.5	21.3	26.1	1,215	209	0.108	0.6740	12.9
4283077	7x3x2.5	22.4	27.4	1,475	219	0.141	0.6030	8.02
4283084	8x3x0.75	21.1	25.7	1,070	206	0.089	0.7357	26.3
4283085	8x3x1	22.5	27.1	1,215	217	0.101	0.6942	19.3
4283086	8x3x1.5	23.4	28.6	1,405	229	0.108	0.6740	12.9
4283087	8x3x2.5	26.0	31.2	1,780	250	0.128	0.6269	8.02
4283124	12x3x0.75	25.6	30.4	1,480	243	0.089	0.7357	26.3
4283125	12x3x1	27.4	32.4	1,715	259	0.101	0.6942	19.3
4283126	12x3x1.5	28.5	33.7	1,905	270	0.108	0.6740	12.9
4283127	12x3x2.5	30.4	36.0	2,395	288	0.141	0.6030	8.02
4283164	16x3x0.75	28.6	33.6	1,840	269	0.089	0.7357	26.3
4283165	16x3x1	30.7	35.9	2,145	287	0.101	0.6942	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4283166	16x3x1.5	32.3	37.9	2,515	303	0.108	0.6740	12.9
4283167	16x3x2.5	35.9	42.1	3,370	337	0.128	0.6269	8.02
4283194	19x3x0.75	30.2	35.4	2,100	283	0.089	0.7357	26.3
4283195	19x3x1	30.8	36.0	2,310	288	0.111	0.6658	19.3
4283196	19x3x1.5	32.1	38.1	2,780	305	0.118	0.6469	12.9
4283197	19x3x2.5	35.9	42.3	3,645	338	0.141	0.6030	8.02
4283244	24x3x0.75	35.9	41.6	2,705	333	0.089	0.7357	26.3
4283245	24x3x1	38.5	44.1	3,105	353	0.101	0.6942	19.3
4283246	24x3x1.5	40.0	46.6	3,700	373	0.108	0.6740	12.9
4283247	24x3x2.5	42.7	49.7	4,640	398	0.141	0.6030	8.02
4283324	32x3x0.75	37.1	43.3	3,175	346	0.097	0.7050	26.3
4283325	32x3x1	39.9	46.3	3,755	370	0.111	0.6658	19.3
4283326	32x3x1.5	42.0	48.8	4,435	390	0.118	0.6469	12.9
4283327	32x3x2.5	47.1	54.8	6,240	438	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

EXZHELLENT® 606

S2/S6 RFOU (c) Mud Resistant Armoured Overall
Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. OVERALL SCREEN:

Copper polyester tape with drain wire.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾⁽²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4274014	1x2x0.75	7.7	10.8	205	86	0.089	0.7357	26.3
4274015	1x2x1	8.2	11.4	235	91	0.101	0.6942	19.3
4274016	1x2x1.5	8.4	11.7	250	94	0.108	0.6740	12.9
4274017	1x2x2.5	9.2	12.4	295	99	0.128	0.6269	8.02
4274024	2x2x0.75	8.9	12.1	255	97	0.064	0.7357	26.3
4274025	2x2x1	9.4	12.6	285	101	0.070	0.6942	19.3
4274026	2x2x1.5	9.7	12.9	310	103	0.073	0.6740	12.9
4274027	2x2x2.5	10.7	14.1	385	113	0.082	0.6269	8.02
4274034	3x2x0.75	11.1	14.6	340	117	0.066	0.7050	26.3
4274035	3x2x1	11.9	15.3	380	122	0.071	0.6658	19.3
4274036	3x2x1.5	13.1	17.1	495	137	0.070	0.6740	12.9
4274037	3x2x2.5	14.4	18.4	595	147	0.076	0.6269	8.02
4274044	4x2x0.75	12.9	16.3	420	130	0.063	0.7357	26.3
4274045	4x2x1	13.8	17.2	475	138	0.067	0.6942	19.3
4274046	4x2x1.5	14.3	18.5	585	148	0.070	0.6740	12.9
4274047	4x2x2.5	15.8	20.2	720	162	0.076	0.6269	8.02
4274074	7x2x0.75	16.2	20.4	665	163	0.063	0.7357	26.3
4274075	7x2x1	16.3	21.1	710	169	0.071	0.6658	19.3
4274076	7x2x1.5	18.0	22.4	860	179	0.070	0.6740	12.9
4274077	7x2x2.5	20.0	24.6	1,070	197	0.076	0.6269	8.02
4274084	8x2x0.75	16.2	20.6	700	165	0.063	0.7357	26.3
4274085	8x2x1	17.3	21.7	800	174	0.067	0.6942	19.3
4274086	8x2x1.5	18.2	22.8	915	182	0.070	0.6740	12.9
4274087	8x2x2.5	20.0	24.8	1,150	198	0.076	0.6269	8.02
4274124	12x2x0.75	20.1	24.7	965	198	0.063	0.7357	26.3
4274125	12x2x1	21.5	26.1	1,105	209	0.067	0.6942	19.3
4274126	12x2x1.5	22.3	27.3	1,275	218	0.070	0.6740	12.9
4274127	12x2x2.5	24.9	30.1	1,620	241	0.076	0.6269	8.02
4274164	16x2x0.75	21.1	25.9	1,135	207	0.063	0.7357	26.3
4274165	16x2x1	22.6	27.4	1,305	219	0.067	0.6942	19.3
4274166	16x2x1.5	23.5	28.7	1,520	230	0.070	0.6740	12.9
4274167	16x2x2.5	26.2	31.6	1,965	253	0.076	0.6269	8.02
4274194	19x2x0.75	24.4	29.2	1,350	234	0.063	0.7357	26.3
4274195	19x2x1	24.5	29.3	1,435	234	0.071	0.6658	19.3
4274196	19x2x1.5	27.3	32.5	1,810	260	0.070	0.6740	12.9
4274197	19x2x2.5	30.8	36.2	2,375	290	0.076	0.6269	8.02
4274244	24x2x0.75	27.1	32.3	1,640	258	0.063	0.7357	26.3
4274245	24x2x1	29.1	34.3	1,895	274	0.067	0.6942	19.3
4274246	24x2x1.5	30.7	36.3	2,245	290	0.070	0.6740	12.9
4274247	24x2x2.5	34.2	40.6	3,030	325	0.076	0.6269	8.02
4274274	27x2x0.75	26.2	31.4	1,630	251	0.066	0.7050	26.3
4274275	27x2x1	28.7	33.9	1,930	271	0.071	0.6658	19.3
4274276	27x2x1.5	31.8	37.5	2,435	300	0.070	0.6740	12.9
4274277	27x2x2.5	36.1	42.5	3,320	340	0.076	0.6269	8.02
4274324	32x2x0.75	29.2	34.6	1,985	277	0.063	0.7357	26.3
4274325	32x2x1	31.8	37.4	2,370	299	0.067	0.6942	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1) 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4274326	32x2x1.5	33.0	39.5	2,860	316	0.070	0.6740	12.9
4274327	32x2x2.5	37.3	43.9	3,765	351	0.076	0.6269	8.02
4274374	37x2x0.75	29.3	34.7	2,075	278	0.066	0.7050	26.3
4274375	37x2x1	31.7	37.1	2,425	297	0.071	0.6658	19.3
4274376	37x2x1.5	35.2	41.6	3,200	333	0.070	0.6740	12.9
4274377	37x2x2.5	39.7	46.5	4,255	372	0.076	0.6269	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1) 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4284014	1x3x0.75	7.7	11.7	220	94	0.097	0.7050	26.3
4284015	1x3x1	8.2	12.2	245	98	0.111	0.6658	19.3
4284016	1x3x1.5	8.9	12.2	275	98	0.108	0.6740	12.9
4284017	1x3x2.5	9.8	13.0	325	104	0.128	0.6269	8.02
4284024	2x3x0.75	11.5	15.5	430	124	0.063	0.7357	26.3
4284025	2x3x1	11.6	15.8	380	126	0.071	0.6658	19.3
4284026	2x3x1.5	12.0	16.0	455	128	0.073	0.6469	12.9
4284027	2x3x2.5	13.3	18.3	575	146	0.079	0.6030	8.02
4284034	3x3x0.75	11.9	16.1	405	129	0.066	0.7050	26.3
4284035	3x3x1	12.8	17.5	510	140	0.071	0.6658	19.3
4284036	3x3x1.5	13.3	18.0	565	144	0.073	0.6469	12.9
4284037	3x3x2.5	14.8	19.7	715	158	0.079	0.6030	8.02
4284044	4x3x0.75	13.0	17.8	520	142	0.066	0.7050	26.3
4284045	4x3x1	14.0	18.7	595	150	0.071	0.6658	19.3
4284046	4x3x1.5	14.5	19.5	680	156	0.073	0.6469	12.9
4284047	4x3x2.5	16.2	21.4	870	171	0.079	0.6030	8.02
4284074	7x3x0.75	16.4	21.4	760	171	0.066	0.7050	26.3
4284075	7x3x1	17.6	22.6	875	181	0.071	0.6658	19.3
4284076	7x3x1.5	18.4	23.5	1,015	188	0.073	0.6469	12.9
4284077	7x3x2.5	20.5	25.9	1,320	207	0.079	0.6030	8.02
4284084	8x3x0.75	17.4	22.0	870	176	0.063	0.7357	26.3
4284085	8x3x1	17.6	22.8	940	182	0.071	0.6658	19.3
4284086	8x3x1.5	19.4	24.2	1,150	194	0.070	0.6740	12.9
4284087	8x3x2.5	20.5	26.1	1,425	209	0.079	0.6030	8.02
4284124	12x3x0.75	21.6	26.4	1,210	211	0.063	0.7357	26.3
4284125	12x3x1	21.8	26.6	1,295	213	0.071	0.6658	19.3
4284126	12x3x1.5	24.1	29.3	1,625	234	0.070	0.6740	12.9
4284127	12x3x2.5	25.5	30.9	2,020	247	0.079	0.6030	8.02
4284164	16x3x0.75	22.8	27.8	1,445	222	0.063	0.7357	26.3
4284165	16x3x1	22.9	27.9	1,555	223	0.071	0.6658	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1[2]} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4284166	16x3x1.5	25.4	30.8	1,965	246	0.070	0.6740	12.9
4284167	16x3x2.5	27.3	32.9	2,510	263	0.079	0.6030	8.02
4284194	19x3x0.75	24.6	29.6	1,575	237	0.066	0.7050	26.3
4284195	19x3x1	26.6	31.8	1,865	254	0.071	0.6658	19.3
4284196	19x3x1.5	28.1	33.5	2,255	268	0.073	0.6469	12.9
4284197	19x3x2.5	31.6	37.8	3,100	302	0.079	0.6030	8.02
4284244	24x3x0.75	29.7	35.1	2,140	281	0.063	0.7357	26.3
4284245	24x3x1	31.9	37.5	2,505	300	0.067	0.6942	19.3
4284246	24x3x1.5	31.2	37.6	2,870	301	0.073	0.6469	12.9
4284247	24x3x2.5	35.5	42.3	3,870	338	0.079	0.6030	8.02
4284324	32x3x0.75	29.8	35.4	2,395	283	0.066	0.7050	26.3
4284325	32x3x1	32.2	38.0	2,850	304	0.071	0.6658	19.3
4284326	32x3x1.5	33.6	40.2	3,535	322	0.073	0.6469	12.9
4284327	32x3x2.5	38.2	45.2	4,800	362	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

exZhellent® 606

EXZHELLENT® 606

S11 RU (i) Mud Resistant Non Armoured Individually Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

4. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).

NEK TS 606.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil and mud resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4280014	1x2x0.75	7.7	100	62	0.089	0.7357	26.3
4280015	1x2x1	8.2	120	66	0.101	0.6942	19.3
4280016	1x2x1.5	8.4	130	67	0.108	0.6740	12.9
4280017	1x2x2.5	9.4	170	75	0.128	0.6269	8.02
4280024	2x2x0.75	8.9	130	71	0.064	0.7357	26.3
4280025	2x2x1	9.4	155	75	0.070	0.6942	19.3
4280026	2x2x1.5	9.9	180	79	0.073	0.6740	12.9
4280027	2x2x2.5	10.9	235	87	0.082	0.6269	8.02
4280034	3x2x0.75	13.2	250	106	0.089	0.7357	26.3
4280035	3x2x1	14.3	300	114	0.101	0.6942	19.3
4280036	3x2x1.5	14.8	340	118	0.108	0.6740	12.9
4280037	3x2x2.5	16.4	440	131	0.128	0.6269	8.02
4280044	4x2x0.75	14.7	320	118	0.089	0.7357	26.3
4280045	4x2x1	15.6	375	125	0.101	0.6942	19.3
4280046	4x2x1.5	16.4	430	131	0.108	0.6740	12.9
4280047	4x2x2.5	18.2	560	146	0.128	0.6269	8.02
4280074	7x2x0.75	17.7	500	142	0.089	0.7357	26.3
4280075	7x2x1	18.9	595	151	0.101	0.6942	19.3
4280076	7x2x1.5	19.7	685	158	0.108	0.6740	12.9
4280077	7x2x2.5	22.0	895	176	0.128	0.6269	8.02
4280084	8x2x0.75	19.4	570	155	0.089	0.7357	26.3
4280085	8x2x1	20.9	695	167	0.101	0.6942	19.3
4280086	8x2x1.5	21.8	795	174	0.108	0.6740	12.9
4280087	8x2x2.5	24.3	1,045	194	0.128	0.6269	8.02
4280124	12x2x0.75	23.8	850	190	0.089	0.7357	26.3
4280125	12x2x1	25.4	1,015	203	0.101	0.6942	19.3
4280126	12x2x1.5	26.5	1,165	212	0.108	0.6740	12.9
4280127	12x2x2.5	29.5	1,525	236	0.128	0.6269	8.02
4280164	16x2x0.75	26.4	1,075	211	0.089	0.7357	26.3
4280165	16x2x1	28.4	1,310	227	0.101	0.6942	19.3
4280166	16x2x1.5	29.7	1,505	238	0.108	0.6740	12.9
4280167	16x2x2.5	33.3	2,000	266	0.128	0.6269	8.02
4280194	19x2x0.75	28.1	1,250	225	0.089	0.7357	26.3
4280195	19x2x1	30.0	1,505	240	0.101	0.6942	19.3
4280196	19x2x1.5	31.5	1,750	252	0.108	0.6740	12.9
4280197	19x2x2.5	35.1	2,305	281	0.128	0.6269	8.02
4280244	24x2x0.75	32.9	1,610	263	0.089	0.7357	26.3
4280245	24x2x1	35.4	1,960	283	0.101	0.6942	19.3
4280246	24x2x1.5	31.5	1,750	252	0.108	0.6740	12.9
4280247	24x2x2.5	41.5	3,005	332	0.128	0.6269	8.02
4280274	27x2x0.75	33.8	1,775	270	0.089	0.7357	26.3
4280275	27x2x1	36.1	2,140	289	0.101	0.6942	19.3
4280276	27x2x1.5	37.9	2,480	303	0.108	0.6740	12.9
4280277	27x2x2.5	42.4	3,285	339	0.128	0.6269	8.02
4280324	32x2x0.75	36.4	2,065	291	0.089	0.7357	26.3
4280325	32x2x1	39.1	2,515	313	0.101	0.6942	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4280326	32x2x1.5	41.0	2.910	328	0.108	0.6740	12.9
4280327	32x2x2.5	45.8	3.865	366	0.128	0.6269	8.02
4280374	37x2x0.75	37.9	2.335	303	0.089	0.7357	26.3
4280375	37x2x1	40.5	2.825	324	0.101	0.6942	19.3
4280376	37x2x1.5	42.7	3.295	342	0.108	0.6740	12.9
4280377	37x2x2.5	47.7	4.380	382	0.128	0.6269	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4302014	1x3x0.75	7.7	105	62	0.097	0.7050	26.3
4302015	1x3x1	8.2	125	66	0.111	0.6658	19.3
4302016	1x3x1.5	8.5	140	68	0.118	0.6469	12.9
4302017	1x3x2.5	9.5	190	76	0.141	0.6030	8.02
4302024	2x3x0.75	13.3	235	106	0.097	0.7050	26.3
4302025	2x3x1	14.2	280	114	0.111	0.6658	19.3
4302026	2x3x1.5	14.9	325	119	0.118	0.6469	12.9
4302027	2x3x2.5	16.5	420	132	0.141	0.6030	8.02
4302034	3x3x0.75	14.1	300	113	0.097	0.7050	26.3
4302035	3x3x1	15.0	355	120	0.111	0.6658	19.3
4302036	3x3x1.5	15.8	420	126	0.118	0.6469	12.9
4302037	3x3x2.5	17.7	560	142	0.141	0.6030	8.02
4302044	4x3x0.75	15.4	370	123	0.097	0.7050	26.3
4302045	4x3x1	16.6	455	133	0.111	0.6658	19.3
4302046	4x3x1.5	17.3	525	138	0.118	0.6469	12.9
4302047	4x3x2.5	19.4	705	155	0.141	0.6030	8.02
4302074	7x3x0.75	18.6	590	149	0.097	0.7050	26.3
4302075	7x3x1	20.1	725	161	0.111	0.6658	19.3
4302076	7x3x1.5	21.1	855	169	0.118	0.6469	12.9
4302077	7x3x2.5	23.6	1,155	189	0.141	0.6030	8.02
4302084	8x3x0.75	20.6	690	165	0.097	0.7050	26.3
4302085	8x3x1	22.0	830	176	0.111	0.6658	19.3
4302086	8x3x1.5	23.3	995	186	0.118	0.6469	12.9
4302087	8x3x2.5	26.1	1,340	209	0.141	0.6030	8.02
4302124	12x3x0.75	25.2	1,020	202	0.097	0.7050	26.3
4302125	12x3x1	27.0	1,230	216	0.111	0.6658	19.3
4302126	12x3x1.5	28.2	1,455	226	0.118	0.6469	12.9
4302127	12x3x2.5	31.8	1,985	254	0.141	0.6030	8.02
4302164	16x3x0.75	28.0	1,300	224	0.097	0.7050	26.3
4302165	16x3x1	30.2	1,590	242	0.111	0.6658	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4302166	16x3x1.5	31.8	1,905	254	0.118	0.6469	12.9
4302167	16x3x2.5	35.6	2,575	285	0.141	0.6030	8.02
4302194	19x3x0.75	29.7	1,510	238	0.097	0.7050	26.3
4302195	19x3x1	31.8	1,835	254	0.111	0.6658	19.3
4302196	19x3x1.5	33.5	2,200	268	0.118	0.6469	12.9
4302197	19x3x2.5	37.7	3,000	302	0.141	0.6030	8.02
4302244	24x3x0.75	35.0	1,965	280	0.097	0.7050	26.3
4302245	24x3x1	37.6	2,380	301	0.111	0.6658	19.3
4302246	24x3x1.5	39.7	2,865	318	0.118	0.6469	12.9
4302247	24x3x2.5	44.7	3,895	358	0.141	0.6030	8.02
4302324	32x3x0.75	38.7	2,515	310	0.097	0.7050	26.3
4302325	32x3x1	41.7	3,085	334	0.111	0.6658	19.3
4302326	32x3x1.5	43.8	3,685	350	0.118	0.6469	12.9
4302327	32x3x2.5	49.3	5,020	394	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

exZhellent® 606

EXZHELLENT® 606

S12 RU (c) Mud Resistant Non Armoured Overall Screened
Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

3. OVERALL SCREEN:

Copper polyester tape with drain wire.

4. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Oil and mud resistant.

Minimum handling & laying temperature: -15 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾⁽²⁾ (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4303014	1x2x0.75	7.7	100	62	0.089	0.7357	26.3
4303015	1x2x1	8.2	120	66	0.101	0.6942	19.3
4303016	1x2x1.5	8.4	130	67	0.108	0.6740	12.9
4303017	1x2x2.5	9.4	170	75	0.128	0.6269	8.02
4303024	2x2x0.75	8.9	130	71	0.064	0.7357	26.3
4303025	2x2x1	9.4	155	75	0.070	0.6942	19.3
4303026	2x2x1.5	9.9	180	79	0.073	0.6740	12.9
4303027	2x2x2.5	10.9	235	87	0.082	0.6269	8.02
4303034	3x2x0.75	12.0	215	96	0.063	0.7357	26.3
4303035	3x2x1	12.8	250	102	0.067	0.6942	19.3
4303036	3x2x1.5	13.4	290	107	0.070	0.6740	12.9
4303037	3x2x2.5	15.0	385	120	0.076	0.6269	8.02
4303044	4x2x0.75	13.1	260	105	0.063	0.7357	26.3
4303045	4x2x1	14.2	310	114	0.067	0.6942	19.3
4303046	4x2x1.5	14.7	360	118	0.070	0.6740	12.9
4303047	4x2x2.5	16.4	475	131	0.076	0.6269	8.02
4303074	7x2x0.75	16.6	415	133	0.063	0.7357	26.3
4303075	7x2x1	17.3	465	138	0.067	0.6942	19.3
4303076	7x2x1.5	18.8	585	150	0.070	0.6740	12.9
4303077	7x2x2.5	20.8	770	166	0.076	0.6269	8.02
4303084	8x2x0.75	16.8	455	134	0.063	0.7357	26.3
4303085	8x2x1	17.9	535	143	0.067	0.6942	19.3
4303086	8x2x1.5	18.8	630	150	0.070	0.6740	12.9
4303087	8x2x2.5	21.0	850	168	0.076	0.6269	8.02
4303124	12x2x0.75	20.8	665	166	0.063	0.7357	26.3
4303125	12x2x1	22.3	785	178	0.067	0.6942	19.3
4303126	12x2x1.5	23.5	940	188	0.070	0.6740	12.9
4303127	12x2x2.5	26.3	1,265	210	0.076	0.6269	8.02
4303164	16x2x0.75	22.1	820	177	0.063	0.7357	26.3
4303165	16x2x1	23.6	970	189	0.067	0.6942	19.3
4303166	16x2x1.5	24.9	1,170	199	0.070	0.6740	12.9
4303167	16x2x2.5	27.8	1,580	222	0.076	0.6269	8.02
4303194	19x2x0.75	25.4	990	203	0.063	0.7357	26.3
4303195	19x2x1	27.3	1,190	218	0.067	0.6942	19.3
4303196	19x2x1.5	28.6	1,410	229	0.070	0.6740	12.9
4303197	19x2x2.5	32.0	1,905	256	0.076	0.6269	8.02
4303244	24x2x0.75	28.4	1,245	227	0.063	0.7357	26.3
4303245	24x2x1	30.4	1,475	243	0.067	0.6942	19.3
4303246	24x2x1.5	32.0	1,770	256	0.070	0.6740	12.9
4303247	24x2x2.5	36.0	2,415	288	0.076	0.6269	8.02
4303274	27x2x0.75	29.5	1,370	236	0.063	0.7357	26.3
4303275	27x2x1	31.6	1,625	253	0.067	0.6942	19.3
4303276	27x2x1.5	33.2	1,950	266	0.070	0.6740	12.9
4303277	27x2x2.5	37.4	2,660	299	0.076	0.6269	8.02
4303324	32x2x0.75	30.7	1,565	246	0.063	0.7357	26.3
4303325	32x2x1	32.9	1,860	263	0.067	0.6942	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4303326	32x2x1.5	34.6	2,240	277	0.070	0.6740	12.9
4303327	32x2x2.5	38.9	3,060	311	0.076	0.6269	8.02
4303374	37x2x0.75	32.6	1,775	261	0.063	0.7357	26.3
4303375	37x2x1	35.2	2,135	282	0.067	0.6942	19.3
4303376	37x2x1.5	36.9	2,565	295	0.070	0.6740	12.9
4303377	37x2x2.5	41.5	3,510	332	0.076	0.6269	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4304014	1x3x0.75	7.7	105	62	0.097	0.7050	26.3
4304015	1x3x1	8.2	125	66	0.111	0.6658	19.3
4304016	1x3x1.5	8.5	140	68	0.118	0.6469	12.9
4304017	1x3x2.5	9.5	190	76	0.141	0.6030	8.02
4304024	2x3x0.75	11.0	190	88	0.066	0.7050	26.3
4304025	2x3x1	11.7	225	94	0.071	0.6658	19.3
4304026	2x3x1.5	12.4	270	99	0.073	0.6469	12.9
4304027	2x3x2.5	13.9	360	111	0.079	0.6030	8.02
4304034	3x3x0.75	12.3	255	98	0.066	0.7050	26.3
4304035	3x3x1	13.1	300	105	0.071	0.6658	19.3
4304036	3x3x1.5	13.8	360	110	0.073	0.6469	12.9
4304037	3x3x2.5	15.3	480	122	0.079	0.6030	8.02
4304044	4x3x0.75	13.4	310	107	0.066	0.7050	26.3
4304045	4x3x1	14.5	380	116	0.071	0.6658	19.3
4304046	4x3x1.5	15.1	450	121	0.073	0.6469	12.9
4304047	4x3x2.5	17.0	610	136	0.079	0.6030	8.02
4304074	7x3x0.75	16.9	500	135	0.066	0.7050	26.3
4304075	7x3x1	18.2	600	146	0.071	0.6658	19.3
4304076	7x3x1.5	19.1	730	153	0.073	0.6469	12.9
4304077	7x3x2.5	21.5	1,000	172	0.079	0.6030	8.02
4304084	8x3x0.75	17.1	550	137	0.066	0.7050	26.3
4304085	8x3x1	18.4	660	147	0.071	0.6658	19.3
4304086	8x3x1.5	19.3	805	154	0.073	0.6469	12.9
4304087	8x3x2.5	21.7	1,105	174	0.079	0.6030	8.02
4304124	12x3x0.75	21.2	805	170	0.066	0.7050	26.3
4304125	12x3x1	22.7	965	182	0.071	0.6658	19.3
4304126	12x3x1.5	24.1	1,200	193	0.073	0.6469	12.9
4304127	12x3x2.5	27.0	1,645	216	0.079	0.6030	8.02
4304164	16x3x0.75	22.4	1,005	179	0.066	0.7050	26.3
4304165	16x3x1	24.1	1,210	193	0.071	0.6658	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4304166	16x3x1.5	25.5	1,505	204	0.073	0.6469	12.9
4304167	16x3x2.5	28.6	2,080	229	0.079	0.6030	8.02
4304194	19x3x0.75	25.8	1,215	206	0.066	0.7050	26.3
4304195	19x3x1	27.9	1,480	223	0.071	0.6658	19.3
4304196	19x3x1.5	29.3	1,815	234	0.073	0.6469	12.9
4304197	19x3x2.5	33.2	2,525	266	0.079	0.6030	8.02
4304244	24x3x0.75	28.9	1,525	231	0.066	0.7050	26.3
4304245	24x3x1	31.1	1,835	249	0.071	0.6658	19.3
4304246	24x3x1.5	33.0	2,295	264	0.073	0.6469	12.9
4304247	24x3x2.5	37.1	3,165	297	0.079	0.6030	8.02
4304324	32x3x0.75	31.2	1,930	250	0.066	0.7050	26.3
4304325	32x3x1	33.8	2,355	270	0.071	0.6658	19.3
4304326	32x3x1.5	35.6	2,925	285	0.073	0.6469	12.9
4304327	32x3x2.5	40.2	4,075	322	0.079	0.6030	8.02
4304246	24x3x1.5	33.0	2,295	264	0.073	0.6469	12.9
4304247	24x3x2.5	37.1	3,165	297	0.079	0.6030	8.02
4304324	32x3x0.75	31.2	1,930	250	0.066	0.7050	26.3
4304325	32x3x1	33.8	2,355	270	0.071	0.6658	19.3
4304326	32x3x1.5	35.6	2,925	285	0.073	0.6469	12.9
4304327	32x3x2.5	40.2	4,075	322	0.079	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

STANDARDS:**CONSTRUCTION:** IEC 60092-360 / IEC 60092-376 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 to IEC 60228.

2. INSULATION:Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.**3. INDIVIDUAL SCREEN:**

Copper polyester tape with drain wire.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:S12 RU (c) Mud Resistant Non Armoured Overall Screened
Instrumentation.**APPLICATIONS:**

Armoured, individually and overall screened pairs/triples cables for installation in offshore with special performances on flame spread and low emission of smoke and fumes.

Oil and mud resistant.

Minimum handling & laying temperature: -15 °C.



EXZHELLENT 606 RFOU (i) (c) MUD 150/250 V

PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4317024	2x2x0.75	12.6	16.0	415	128	0.089	0.7357	26.3
4317025	2x2x1	13.4	16.8	465	134	0.101	0.6942	19.3
4317026	2x2x1.5	13.1	17.1	520	137	0.118	0.6469	12.9
4317027	2x2x2.5	14.5	18.5	620	148	0.141	0.6030	8.02
4317034	3x2x0.75	13.3	17.4	490	139	0.089	0.7357	26.3
4317035	3x2x1	14.1	18.3	555	146	0.101	0.6942	19.3
4317036	3x2x1.5	13.8	18.6	615	149	0.118	0.6469	12.9
4317037	3x2x2.5	15.3	20.3	755	162	0.141	0.6030	8.02
4317044	4x2x0.75	14.5	19.3	630	154	0.089	0.7357	26.3
4317045	4x2x1	15.5	20.2	715	162	0.101	0.6942	19.3
4317046	4x2x1.5	15.2	20.1	740	161	0.118	0.6469	12.9
4317047	4x2x2.5	16.8	21.8	900	174	0.141	0.6030	8.02
4317074	7x2x0.75	17.4	22.3	880	178	0.089	0.7357	26.3
4317075	7x2x1	18.5	23.5	1,015	188	0.101	0.6942	19.3
4317076	7x2x1.5	18.1	23.3	1,055	186	0.118	0.6469	12.9
4317077	7x2x2.5	20.2	25.5	1,325	204	0.141	0.6030	8.02
4317084	8x2x0.75	19.0	24.0	1,000	192	0.089	0.7357	26.3
4317085	8x2x1	20.3	25.5	1,160	204	0.101	0.6942	19.3
4317086	8x2x1.5	19.9	25.3	1,210	202	0.118	0.6469	12.9
4317087	8x2x2.5	22.1	27.7	1,525	222	0.141	0.6030	8.02
4317124	12x2x0.75	23.0	27.6	1,365	221	0.089	0.7357	26.3
4317125	12x2x1	24.6	29.4	1,600	235	0.101	0.6942	19.3
4317126	12x2x1.5	24.1	29.1	1,675	233	0.118	0.6469	12.9
4317127	12x2x2.5	26.9	32.1	2,120	257	0.141	0.6030	8.02
4317164	16x2x0.75	25.7	30.5	1,690	244	0.089	0.7357	26.3
4317165	16x2x1	27.5	32.5	1,985	260	0.101	0.6942	19.3
4317166	16x2x1.5	26.9	32.1	2,085	257	0.118	0.6469	12.9
4317167	16x2x2.5	30.5	36.1	2,720	289	0.141	0.6030	8.02
4317194	19x2x0.75	27.1	32.1	1,915	257	0.089	0.7357	26.3
4317195	19x2x1	29.0	34.0	2,235	272	0.101	0.6942	19.3
4317196	19x2x1.5	28.4	33.8	2,375	270	0.118	0.6469	12.9
4317197	19x2x2.5	32.2	37.8	3,080	302	0.141	0.6030	8.02
4317244	24x2x0.75	31.8	37.0	2,435	296	0.089	0.7357	26.3
4317245	24x2x1	34.0	39.4	2,870	315	0.101	0.6942	19.3
4317246	24x2x1.5	33.7	39.9	3,170	319	0.118	0.6469	12.9
4317247	24x2x2.5	37.7	44.3	4,065	354	0.141	0.6030	8.02
4317274	27x2x0.75	32.5	37.9	2,625	303	0.089	0.7357	26.3
4317275	27x2x1	35.2	41.0	3,215	328	0.101	0.6942	19.3
4317276	27x2x1.5	34.4	40.6	3,400	325	0.118	0.6469	12.9
4317277	27x2x2.5	38.5	45.1	4,370	361	0.141	0.6030	8.02
4317324	32x2x0.75	35.5	40.9	3,050	327	0.089	0.7357	26.3
4317325	32x2x1	35.7	41.3	3,305	330	0.111	0.6658	19.3
4317326	32x2x1.5	37.2	43.6	3,925	349	0.118	0.6469	12.9
4317327	32x2x2.5	42.0	48.8	5,115	390	0.141	0.6030	8.02
4317374	37x2x0.75	36.8	42.4	3,375	339	0.089	0.7357	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4317375	37x2x1	37.0	42.6	3,640	341	0.111	0.6658	19.3
4317376	37x2x1.5	38.6	45.2	4,360	362	0.118	0.6469	12.9
4317377	37x2x2.5	43.6	50.6	5,685	405	0.141	0.6030	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4318024	2x3x0.75	13.2	17.3	420	138	0.097	0.7050	26.3
4318025	2x3x1	14.0	18.8	525	150	0.111	0.6658	19.3
4318026	2x3x1.5	14.6	19.3	570	154	0.118	0.6469	12.9
4318027	2x3x2.5	16.2	21.1	700	169	0.141	0.6030	8.02
4318034	3x3x0.75	13.9	18.7	540	150	0.097	0.7050	26.3
4318035	3x3x1	14.9	19.6	615	157	0.111	0.6658	19.3
4318036	3x3x1.5	15.4	20.4	690	163	0.118	0.6469	12.9
4318037	3x3x2.5	17.1	22.3	860	178	0.141	0.6030	8.02
4318044	4x3x0.75	15.2	20.0	635	160	0.097	0.7050	26.3
4318045	4x3x1	16.3	21.1	725	169	0.111	0.6658	19.3
4318046	4x3x1.5	16.9	21.9	815	175	0.118	0.6469	12.9
4318047	4x3x2.5	18.8	24.0	1,030	192	0.141	0.6030	8.02
4318074	7x3x0.75	18.2	23.2	895	186	0.097	0.7050	26.3
4318075	7x3x1	19.5	24.7	1,055	198	0.111	0.6658	19.3
4318076	7x3x1.5	20.3	25.7	1,200	206	0.118	0.6469	12.9
4318077	7x3x2.5	22.6	27.6	1,525	221	0.141	0.6030	8.02
4318084	8x3x0.75	20.0	25.2	1,025	202	0.097	0.7050	26.3
4318085	8x3x1	21.5	26.1	1,180	209	0.111	0.6658	19.3
4318086	8x3x1.5	22.3	27.3	1,360	218	0.118	0.6469	12.9
4318087	8x3x2.5	24.9	30.1	1,745	241	0.141	0.6030	8.02
4318124	12x3x0.75	24.2	29.0	1,390	232	0.097	0.7050	26.3
4318125	12x3x1	26.0	31.0	1,645	248	0.111	0.6658	19.3
4318126	12x3x1.5	27.1	32.3	1,885	258	0.118	0.6469	12.9
4318127	12x3x2.5	30.7	36.7	2,585	294	0.141	0.6030	8.02
4318164	16x3x0.75	27.0	32.0	1,725	256	0.097	0.7050	26.3
4318165	16x3x1	29.0	34.3	2,050	274	0.111	0.6658	19.3
4318166	16x3x1.5	30.7	36.3	2,420	290	0.118	0.6469	12.9
4318167	16x3x2.5	34.3	40.5	3,235	324	0.141	0.6030	8.02
4318194	19x3x0.75	28.5	33.7	1,960	270	0.097	0.7050	26.3
4318195	19x3x1	30.7	35.9	2,315	287	0.111	0.6658	19.3
4318196	19x3x1.5	32.3	37.9	2,740	303	0.118	0.6469	12.9
4318197	19x3x2.5	36.2	42.6	3,700	341	0.141	0.6030	8.02
4318244	24x3x0.75	33.8	39.5	2,520	316	0.097	0.7050	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4318245	24x3x1	36.4	42.4	3,075	339	0.111	0.6658	19.3
4318246	24x3x1.5	37.9	44.5	3,590	356	0.118	0.6469	12.9
4318247	24x3x2.5	42.9	49.9	4,750	399	0.141	0.6030	8.02
4318324	32x3x0.75	37.3	43.5	3,225	348	0.097	0.7050	26.3
4318325	32x3x1	40.1	46.6	3,845	373	0.111	0.6658	19.3
4318326	32x3x1.5	42.2	49.0	4,530	392	0.118	0.6469	12.9
4318327	32x3x2.5	47.3	55.1	6,015	441	0.141	0.6030	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

STANDARDS:**CONSTRUCTION:** IEC 60092-353 / IEC 60092-360 / NEK TS 606**FIRE PERFORMANCE:** IEC 60332-1-2 / IEC 60332-3-22 / IEC 601034-2
IEC 60754-1 / IEC 60754-2**CONSTRUCTION:****1. CONDUCTOR:**

Tinned copper class 2 or class 5 to IEC 60228.

2. INSULATION/SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

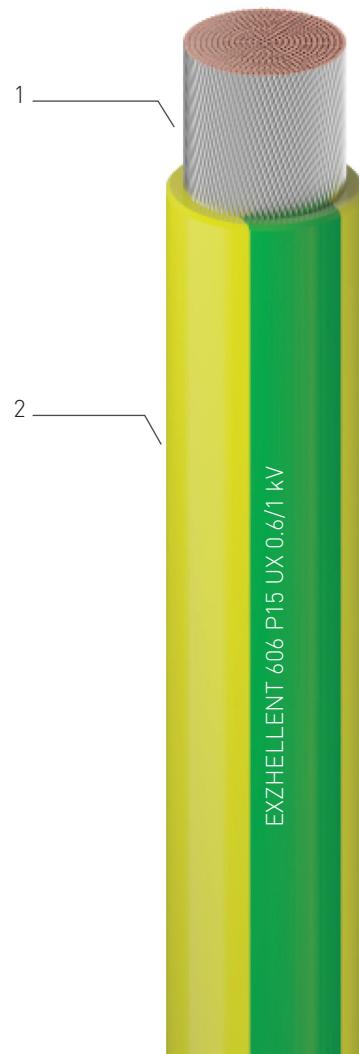
APPLICATIONS:

Earthing and switchboard cables for installation in ships, with special non fire-spread properties, low emission of dark smoke, halogen-free and low acidity and corrosivity of evolved gases during combustion.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.

SWITCHBOARD WIRE COLORS:

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C	AC conductor resistance at 90 °C	Inductance (mH/km)	Reactance at 50 Hz
7477106	1x1.5	3.5	26	14	21	21.7	26.9	12.2	15.6	0.376	0.118
7477107	1x2.5	3.8	36	15	28	13.5	16.7	7.56	9.64	0.350	0.110
7477108	1x4	4.3	51	17	38	8.41	10.4	4.70	5.99	0.328	0.103
7477109	1x6	4.9	71	20	49	5.60	6.87	3.11	3.97	0.308	0.097
7477110	1x10	5.8	115	23	67	3.35	4.06	1.84	2.35	0.288	0.090
7477111	1x16	6.7	170	27	91	2.14	2.56	1.16	1.48	0.274	0.086
7477112	1x25	8.2	260	33	117	1.39	1.62	0.734	0.937	0.273	0.086
7477113	1x35	9.2	355	37	147	1.02	1.17	0.529	0.675	0.263	0.083
7477114	1x50	10.8	480	43	180	0.775	0.864	0.391	0.499	0.259	0.081
7477115	1x70	12.2	670	49	233	0.557	0.596	0.270	0.345	0.246	0.077
7477116	1x95	14.3	925	57	285	0.424	0.431	0.195	0.249	0.245	0.077
7477117	1x120	16.0	1,165	64	333	0.350	0.340	0.154	0.197	0.239	0.075
7477118	1x150	17.5	1,410	70	386	0.300	0.278	0.126	0.162	0.237	0.074
7477119	1x185	19.6	1,770	78	444	0.254	0.221	0.100	0.129	0.237	0.074
7477120	1x240	22.4	2,330	90	528	0.211	0.168	0.0762	0.099	0.234	0.074
7477121	1x300	25.0	2,910	100	612	0.183	0.134	0.0607	0.0802	0.233	0.073

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances

²⁾ During and after installation

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable)

GENFIRE 606

GENFIRE® 606

P5 BFOU Fire Resistant Armoured Low Voltage Power and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Fire and oil resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
1492106	1x1.5	6.2	9.1	125	55	21	21.74	26.94	12.2	15.6	0.570	0.179
1492107	1x2.5	6.6	9.5	145	57	28	13.53	16.70	7.56	9.64	0.530	0.167
1492108	1x4	7.0	10.1	170	61	38	8.467	10.38	4.70	5.99	0.499	0.157
1492109	1x6	7.6	10.7	200	64	49	5.646	6.869	3.11	3.97	0.464	0.146
1492110	1x10	8.5	11.6	250	70	67	3.391	4.064	1.84	2.35	0.428	0.134
1492111	1x16	9.4	12.5	320	75	91	2.180	2.562	1.16	1.48	0.400	0.126
1492112	1x25	10.9	14.2	440	85	117	1.422	1.621	0.734	0.937	0.383	0.120
1492113	1x35	11.9	15.8	590	95	147	1.056	1.168	0.529	0.675	0.372	0.117
1492114	1x50	13.6	17.5	750	105	180	0.807	0.864	0.391	0.499	0.356	0.112
1492115	1x70	15.0	19.1	975	115	233	0.587	0.596	0.270	0.345	0.336	0.106
1492116	1x95	17.1	21.4	1,270	128	285	0.451	0.431	0.195	0.249	0.326	0.102
1492117	1x120	18.8	23.1	1,545	139	333	0.374	0.340	0.154	0.197	0.313	0.098
1492118	1x150	20.3	24.8	1,835	149	386	0.323	0.278	0.126	0.162	0.308	0.097
1492119	1x185	22.4	27.1	2,230	163	444	0.275	0.221	0.100	0.129	0.302	0.095
1492120	1x240	25.3	30.2	2,850	181	528	0.230	0.168	0.0762	0.099	0.293	0.092
1492121	1x300	27.9	33.0	3,490	198	612	0.201	0.134	0.0607	0.0802	0.288	0.090
1492122	1x400	30.5	35.6	4,330	214	716	0.175	0.105	0.0475	0.0641	0.279	0.088
1492123	1x500	34.9	41.0	5,625	246	823	0.156	0.081	0.0369	0.0515	0.278	0.087
1492124	1x630	39.4	45.9	7,165	275	947	0.139	0.063	0.0286	0.0423	0.272	0.085
1492205	2x1	10.1	13.4	270	80	13	37.30	46.41	18.2	23.2	0.435	0.137
1492206	2x1.5	10.3	13.6	290	82	23	25.05	31.11	12.2	15.6	0.422	0.133
1492207	2x2.5	11.1	14.4	315	86	31	15.57	19.28	7.56	9.64	0.392	0.123
1492208	2x4	12.0	15.9	435	95	43	9.727	11.99	4.70	5.99	0.366	0.115
1492209	2x6	12.8	16.7	495	100	55	6.474	7.931	3.11	3.97	0.333	0.105
1492210	2x10	14.9	19.0	685	114	75	3.874	4.692	1.84	2.35	0.318	0.100
1492211	2x16	16.7	20.8	925	125	100	2.480	2.958	1.16	1.48	0.301	0.095
1492212	2x25	19.7	24.2	1,250	145	130	1.609	1.872	0.734	0.937	0.295	0.093
1492213	2x35	21.8	26.5	1,540	159	161	1.186	1.349	0.529	0.675	0.284	0.089
1492214	2x50	25.3	30.2	2,065	181	196	0.903	0.997	0.391	0.499	0.279	0.088
1492215	2x70	28.5	33.6	2,735	202	251	0.651	0.689	0.270	0.345	0.264	0.083
1492216	2x95	32.7	38.8	3,775	233	306	0.496	0.497	0.195	0.249	0.261	0.082
1492217	2x120	36.0	42.6	4,700	256	357	0.410	0.393	0.154	0.197	0.254	0.080
1492218	2x150	39.5	46.5	5,605	279	412	0.352	0.321	0.126	0.162	0.252	0.079
1492219	2x185	45.7	53.0	7,200	318	472	0.298	0.255	0.100	0.129	0.250	0.079
1492220	2x240	51.3	59.1	9,325	355	558	0.248	0.194	0.0762	0.099	0.246	0.077
1492221	2x300	56.5	64.3	11,330	386	645	0.216	0.155	0.0607	0.0802	0.244	0.077
1492305	3x1	10.7	14.0	280	84	11	32.30	40.20	18.2	23.2	0.435	0.137

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Voltage drop cos μ = 1.0 (V/A·km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
1492306	3x1.5	11.0	14.3	300	86	20	21.69	26.94	12.2	15.6	0.422	0.133
1492307	3x2.5	11.9	15.2	350	91	28	13.49	16.70	7.56	9.64	0.392	0.123
1492308	3x4	12.8	16.8	460	101	37	8.424	10.38	4.70	5.99	0.366	0.115
1492309	3x6	14.1	18.0	560	108	47	5.606	6.869	3.11	3.97	0.342	0.107
1492310	3x10	16.0	20.1	755	121	65	3.355	4.064	1.84	2.35	0.318	0.100
1492311	3x16	17.9	22.2	1,080	133	87	2.148	2.562	1.16	1.48	0.301	0.095
1492312	3x25	21.2	25.7	1,405	154	110	1.393	1.621	0.734	0.937	0.295	0.093
1492313	3x35	23.4	28.1	1,780	169	137	1.027	1.168	0.529	0.675	0.284	0.089
1492314	3x50	27.1	32.2	2,420	193	167	0.782	0.864	0.391	0.499	0.279	0.088
1492315	3x70	30.5	36.4	3,260	218	214	0.563	0.596	0.270	0.345	0.264	0.083
1492316	3x95	35.1	41.3	4,375	248	259	0.430	0.431	0.195	0.249	0.261	0.082
1492317	3x120	38.6	45.5	5,490	273	301	0.355	0.340	0.154	0.197	0.254	0.080
1492318	3x150	42.4	49.6	6,600	298	347	0.305	0.278	0.126	0.162	0.252	0.079
1492319	3x185	46.9	54.5	8,115	327	397	0.258	0.221	0.100	0.129	0.250	0.079
1492320	3x240	53.5	61.6	10,705	370	468	0.215	0.168	0.0762	0.099	0.246	0.077
1492321	3x300	60.7	68.8	13,335	413	540	0.187	0.134	0.0607	0.0802	0.244	0.077
1492405	4x1	11.8	15.1	315	91	10	32.31	40.20	18.2	23.2	0.459	0.144
1492406	4x1.5	12.1	16.0	385	96	20	21.70	26.94	12.2	15.6	0.446	0.140
1492407	4x2.5	13.0	16.9	445	101	28	13.49	16.70	7.56	9.64	0.416	0.131
1492408	4x4	14.1	18.1	540	109	37	8.431	10.38	4.70	5.99	0.390	0.123
1492409	4x6	15.6	19.7	670	118	47	5.614	6.869	3.11	3.97	0.365	0.115
1492410	4x10	17.7	22.0	900	132	65	3.363	4.064	1.84	2.35	0.342	0.107
1492411	4x16	19.8	24.3	1,255	146	87	2.155	2.562	1.16	1.48	0.324	0.102
1492412	4x25	23.5	28.2	1,735	169	110	1.401	1.621	0.734	0.937	0.319	0.100
1492413	4x35	26.0	30.9	2,310	185	137	1.035	1.168	0.529	0.675	0.307	0.096
1492414	4x50	30.5	36.0	3,020	216	167	0.790	0.864	0.391	0.499	0.303	0.095
1492415	4x70	33.9	39.9	4,030	239	214	0.571	0.596	0.270	0.345	0.288	0.090
1492416	4x95	39.4	46.2	5,500	277	259	0.437	0.431	0.195	0.249	0.285	0.090
1492417	4x120	43.4	50.6	6,835	304	301	0.363	0.340	0.154	0.197	0.277	0.087
1492418	4x150	48.8	56.8	8,345	341	347	0.312	0.278	0.126	0.162	0.275	0.086
1492419	4x185	54.6	62.3	10,320	374	397	0.266	0.221	0.100	0.129	0.274	0.086
1492420	4x240	61.1	69.3	13,475	416	468	0.223	0.168	0.0762	0.099	0.270	0.085
1492421	4x300	67.8	76.7	16,695	460	540	0.195	0.134	0.0607	0.0802	0.268	0.084
1492505	5x1	13.0	16.9	415	101	9	32.31	40.20	18.2	23.2	0.468	0.147
1492506	5x1.5	13.3	17.3	370	104	20	21.70	26.94	12.2	15.6	0.455	0.143
1492507	5x2.5	14.4	18.5	535	111	28	13.50	16.70	7.56	9.64	0.425	0.134

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
1492508	5x4	15.7	19.8	645	119	37	8.434	10.38	4.70	5.99	0.399	0.125
1492509	5x6	17.3	21.6	805	130	47	5.617	6.869	3.11	3.97	0.375	0.118
1492510	5x10	19.6	23.9	1,075	143	65	3.366	4.064	1.84	2.35	0.351	0.110
1492511	5x16	22.0	26.6	1,440	160	87	2.158	2.562	1.16	1.48	0.334	0.105
1492512	5x25	25.0	29.9	2,005	179	110	1.401	1.621	0.734	0.937	0.319	0.100
1492513	5x35	29.4	34.6	2,705	208	137	1.038	1.168	0.529	0.675	0.317	0.100
1492514	5x50	34.0	40.0	3,680	240	167	0.793	0.864	0.391	0.499	0.312	0.098
1492515	5x70	37.8	44.3	4,880	266	214	0.574	0.596	0.270	0.345	0.297	0.093
1492516	5x95	43.9	50.8	6,530	305	259	0.440	0.431	0.195	0.249	0.294	0.092
1492517	5x120	48.4	55.7	8,065	334	301	0.366	0.340	0.154	0.197	0.287	0.090
1492518	5x150	53.1	60.7	9,655	364	347	0.315	0.278	0.126	0.162	0.284	0.089

CONTROL

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	DC conductor resistance at 20 °C (Ohm/km)
2292055	5x1	13.1	17.0	420	102	18.2
2292056	5x1.5	13.5	17.4	455	104	12.2
2292057	5x2.5	14.5	18.4	535	110	7.56
2292075	7x1	15.6	19.7	550	118	18.2
2292076	7x1.5	16.0	19.9	585	119	12.2
2292077	7x2.5	17.3	21.6	720	130	7.56
2292125	12x1	22.7	27.2	995	163	18.2
2292126	12x1.5	23.3	27.6	1,070	166	12.2
2292127	12x2.5	25.3	30.0	1,310	180	7.56
2292195	19x1	22.4	26.9	965	161	18.2
2292196	19x1.5	23.1	27.6	1,070	166	12.2
2292197	19x2.5	25.0	29.8	1,330	179	7.56
2292205	20x1	23.7	28.2	1,050	169	18.2
2292206	20x1.5	24.4	29.1	1,180	175	12.2
2292207	20x1.5	26.5	31.4	1,460	188	7.56
2292275	27x1	27.0	31.9	1,265	191	18.2
2292276	27x1.5	27.8	32.7	1,410	196	12.2
2292277	27x2.5	30.2	35.3	1,765	212	7.56
2292375	37x1	30.4	35.5	1,570	213	18.2
2292376	37x1.5	31.7	37.0	1,820	222	12.2
2292377	37x2.5	34.4	40.3	2,380	242	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

GENFIRE 606

GENFIRE® 606

P5/P12 BFOU Fire & Mud Resistant Armoured Low Voltage Power and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

4. INNER COVERING:

Halogen-free compound.

5. ARMOUR:

Tinned copper wire braid.

6. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, fire, oil and mud resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature -20 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7474106	1x1,5	6.0	9.1	145	55	21	21.74	26.94	12.2	15.6	0.569	0.179
7474107	1x2,5	6.4	9.4	160	56	28	13.53	16.70	7.56	9.64	0.530	0.167
7474108	1x4	6.9	10.1	190	61	38	8.467	10.38	4.70	5.99	0.499	0.157
7474109	1x6	7.5	10.7	220	64	49	5.646	6.869	3.11	3.97	0.464	0.146
7474110	1x10	8.6	11.8	280	71	67	3.392	4.064	1.84	2.35	0.432	0.136
7474111	1x16	9.5	12.7	355	76	91	2.181	2.562	1.16	1.48	0.404	0.127
7474112	1x25	11.0	14.4	485	86	117	1.423	1.621	0.734	0.937	0.386	0.121
7474113	1x35	12.0	16.0	640	96	147	1.057	1.168	0.529	0.675	0.375	0.118
7474114	1x50	13.7	17.8	810	107	180	0.808	0.864	0.391	0.499	0.359	0.113
7474115	1x70	15.1	19.4	1,045	116	233	0.588	0.596	0.270	0.345	0.338	0.106
7474116	1x95	17.2	21.7	1,355	130	285	0.452	0.431	0.195	0.249	0.328	0.103
7474117	1x120	18.9	23.3	1,645	140	333	0.375	0.340	0.154	0.197	0.315	0.099
7474118	1x150	20.4	25.1	1,935	151	386	0.324	0.278	0.126	0.162	0.309	0.097
7474119	1x185	22.5	27.5	2,370	165	444	0.276	0.221	0.100	0.129	0.305	0.096
7474120	1x240	25.6	30.8	3,025	185	528	0.232	0.168	0.0762	0.0993	0.298	0.094
7474121	1x300	28.0	33.4	3,685	200	612	0.202	0.134	0.0607	0.0802	0.291	0.091
7474122	1x400	31.4	37.0	4,640	222	716	0.178	0.105	0.0475	0.0641	0.287	0.090
7474123	1x500	35.4	41.8	5,945	251	823	0.157	0.081	0.0369	0.0515	0.282	0.089
7474124	1x630	39.5	46.1	7,465	277	947	0.139	0.063	0.0286	0.0423	0.272	0.085
7474205	2x1	9.6	13.0	275	78	13	37.29	46.41	18.2	23.2	0.423	0.133
7474206	2x1,5	9.9	13.3	290	80	23	25.05	31.11	12.2	15.6	0.410	0.129
7474207	2x2,5	10.6	14.1	335	85	31	15.57	19.28	7.56	9.64	0.381	0.120
7474208	2x4	11.6	15.6	435	94	43	9.723	11.99	4.70	5.99	0.356	0.112
7474209	2x6	12.8	16.8	515	101	55	6.470	7.931	3.11	3.97	0.333	0.105
7474210	2x10	14.9	19.2	705	115	75	3.874	4.692	1.84	2.35	0.318	0.100
7474211	2x16	16.7	21.0	935	126	100	2.480	2.958	1.16	1.48	0.301	0.095
7474212	2x25	19.7	24.4	1,260	146	130	1.609	1.872	0.734	0.937	0.295	0.093
7474213	2x35	21.8	26.8	1,555	161	161	1.186	1.349	0.529	0.675	0.284	0.089
7474214	2x50	25.3	30.5	2,105	183	196	0.903	0.997	0.391	0.499	0.279	0.088
7474215	2x70	28.0	33.4	2,730	200	251	0.649	0.689	0.270	0.345	0.261	0.082
7474216	2x95	32.7	38.9	3,685	233	306	0.496	0.497	0.195	0.249	0.261	0.082
7474217	2x120	36.0	42.8	4,610	257	357	0.410	0.393	0.154	0.197	0.254	0.080
7474218	2x150	41.3	48.0	5,675	288	412	0.352	0.321	0.126	0.162	0.252	0.079
7474219	2x185	45.4	52.5	6,960	315	472	0.298	0.255	0.100	0.129	0.250	0.079
7474220	2x240	51.4	60.1	9,185	361	558	0.248	0.194	0.0762	0.0993	0.246	0.077

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Voltage drop cos μ = 1.0 (V/A·km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7474221	2x300	54.9	63.5	10,175	381	645	0.216	0.155	0.0607	0.0802	0.244	0.077
7474305	3x1	10.2	13.6	300	82	11	32.29	40.20	18.2	23.2	0.423	0.133
7474306	3x1.5	10.5	13.9	320	83	20	21.69	26.94	12.2	15.6	0.410	0.129
7474309	3x6	13.6	17.6	590	110	47	5.60	6.87	3.11	3.97	0.333	0.105
7474310	3x10	16.0	20.4	815	125	65	3.36	4.06	1.84	2.35	0.318	0.100
7474311	3x16	17.9	22.5	1,120	140	87	2.15	2.56	1.16	1.479	0.301	0.095
7474312	3x25	21.2	26.0	1,525	160	110	1.39	1.62	0.734	0.938	0.295	0.093
7474313	3x35	23.4	28.4	1,925	175	137	1.03	1.17	0.529	0.675	0.284	0.089
7474314	3x50	27.1	32.5	2,555	200	167	0.782	0.864	0.391	0.499	0.279	0.088
7474315	3x70	30.5	36.5	3,465	220	214	0.563	0.596	0.270	0.345	0.264	0.083
7474316	3x95	35.1	41.5	4,630	250	259	0.430	0.431	0.195	0.250	0.261	0.082
7474317	3x120	38.6	45.2	5,700	275	301	0.355	0.340	0.154	0.198	0.254	0.080
7474318	3x150	42.4	49.8	6,930	300	347	0.305	0.278	0.126	0.163	0.252	0.079
7474319	3x185	46.9	54.7	8,545	330	397	0.258	0.221	0.100	0.130	0.250	0.079
7474320	3x240	53.5	62.4	11,300	375	468	0.215	0.168	0.0762	0.099	0.246	0.077
7474321	3x300	61.2	70.6	14,230	425	540	0.187	0.134	0.0607	0.0802	0.244	0.077
7474406	4x1.5	11.5	15.5	410	94	20	21.7	26.9	12.2	15.6	0.410	0.129
7474407	4x2.5	12.5	16.5	475	99	28	13.5	16.7	7.56	9.64	0.381	0.120
7474408	4x4	13.6	17.6	570	110	37	8.42	10.4	4.70	5.99	0.356	0.112
7474409	4x6	15.0	19.4	710	120	47	5.60	6.87	3.11	3.97	0.333	0.105
7474410	4x10	17.7	22.3	990	135	65	3.36	4.06	1.84	2.35	0.318	0.100
7474411	4x16	19.8	24.6	1,345	150	87	2.15	2.56	1.16	1.479	0.301	0.095
7474412	4x25	23.5	28.5	1,880	175	110	1.39	1.62	0.734	0.938	0.295	0.093
7474413	4x35	26.0	31.2	2,365	190	137	1.03	1.17	0.529	0.675	0.284	0.089
7474414	4x50	30.5	36.1	3,175	220	167	0.782	0.864	0.391	0.499	0.279	0.088
7474415	4x70	33.9	40.1	4,275	245	214	0.563	0.596	0.270	0.345	0.264	0.083
7474416	4x95	39.4	46.4	5,815	280	259	0.430	0.431	0.195	0.250	0.261	0.082
7474417	4x120	43.4	50.8	7,200	305	301	0.355	0.340	0.154	0.198	0.254	0.080
7474418	4x150	48.9	56.9	8,775	345	347	0.305	0.278	0.126	0.163	0.252	0.079
7474419	4x185	54.3	62.8	10,810	380	397	0.258	0.221	0.100	0.130	0.250	0.079
7474420	4x240	61.2	70.3	14,210	425	468	0.215	0.168	0.0762	0.099	0.246	0.077
7474507	5x2.5	13.8	18.0	565	110	28	13.5	16.7	7.56	9.64	0.381	0.120
7474508	5x4	15.0	19.2	690	115	37	8.431	10.38	4.70	5.99	0.389	0.122
7474509	5x6	16.6	21.8	870	131	47	5.614	6.869	3.11	3.97	0.366	0.115
7474510	5x10	19.6	24.8	1,190	149	65	3.366	4.064	1.84	2.35	0.351	0.110

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable] or F [Single core cable].

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Voltage drop cos μ = 1.0 (V/A·km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7474511	5x16	22.0	26.9	1,570	161	87	2.158	2.562	1.16	1.48	0.334	0.105
7474512	5x25	26.1	31.3	2,245	188	110	1.404	1.621	0.734	0.937	0.328	0.103
7474513	5x35	29.4	35.0	2,940	210	137	1.038	1.168	0.529	0.675	0.317	0.100
7474514	5x50	34.0	40.2	3,960	241	167	0.793	0.864	0.391	0.499	0.312	0.098
7474515	5x70	37.8	44.4	5,215	266	214	0.574	0.596	0.270	0.345	0.297	0.093
7474516	5x95	43.9	51.3	7,010	308	259	0.440	0.431	0.195	0.249	0.294	0.092
7474517	5x120	48.4	56.6	8,635	340	301	0.366	0.340	0.154	0.197	0.287	0.090
7474518	5x150	53.1	61.6	10,335	370	347	0.315	0.278	0.126	0.162	0.284	0.089

CONTROL

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	DC conductor resistance at 20 °C (Ohm/km)
2474055	5x1	12.4	16.5	450	99	18.2
2474056	5x1.5	12.8	16.8	485	101	12.2
2474057	5x2.5	13.9	17.9	565	107	7.56
2474075	7x1	13.5	17.5	510	105	18.2
2474076	7x1.5	13.9	17.9	550	107	12.2
2474077	7x2.5	15.1	19.3	670	116	7.56
2474125	12x1	17.9	22.3	765	134	18.2
2474126	12x1.5	18.5	22.9	835	137	12.2
2474127	12x2.5	20.1	24.9	1,040	149	7.56
2474128	19x1	23.0	28.0	1,350	168	18.2
2474196	19x1.5	21.9	26.9	1,155	161	12.2
2474197	19x2.5	23.8	29.0	1,430	174	7.56
2474205	20x1	22.4	27.2	1,120	163	18.2
2474206	20x1.5	23.1	28.1	1,250	169	12.2
2474207	20x1.5	25.2	30.4	1,545	182	7.56
2474275	27x1	25.5	30.7	1,385	184	18.2
2474276	27x1.5	26.3	31.5	1,530	189	12.2
2474277	27x2.5	29.1	34.5	1,940	207	7.56
2474375	37x1	32.1	37.5	1,975	225	18.2
2474376	37x1.5	30.0	35.6	1,975	214	12.2
2474377	37x2.5	32.7	39.0	2,560	234	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

GENFIRE 606

GENFIRE® 606

P17 BU Fire Resistant Non Armoured Low Voltage Power
and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

4. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.
Halogen-free, fire and oil resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)
7467106	1x1.5	6.6	55	26	21	21.72	26.94	12.2	15.6	0.505	0.159
7467107	1x2.5	7.0	67	28	28	13.51	16.70	7.56	9.64	0.469	0.147
7467108	1x4	7.4	84	30	38	8.447	10.38	4.70	5.99	0.437	0.137
7467109	1x6	8.0	110	32	49	5.627	6.869	3.11	3.97	0.406	0.128
7467110	1x10	8.9	150	36	67	3.373	4.064	1.84	2.35	0.375	0.118
7467111	1x16	9.8	210	39	91	2.164	2.562	1.16	1.48	0.351	0.110
7467112	1x25	11.3	310	45	117	1.407	1.621	0.734	0.937	0.337	0.106
7467113	1x35	12.3	415	49	147	1.040	1.168	0.529	0.675	0.322	0.101
7467114	1x50	13.8	540	55	180	0.791	0.864	0.391	0.499	0.308	0.097
7467115	1x70	15.4	750	62	233	0.573	0.596	0.270	0.345	0.293	0.092
7467116	1x95	17.7	1,015	71	285	0.438	0.431	0.195	0.249	0.287	0.090
7467117	1x120	19.3	1,265	77	333	0.363	0.340	0.154	0.197	0.277	0.087
7467118	1x150	21.1	1,525	84	386	0.312	0.278	0.126	0.162	0.275	0.086
7467119	1x185	23.4	1,900	94	444	0.266	0.221	0.100	0.129	0.273	0.086
7467120	1x240	26.4	2,475	158	528	0.222	0.168	0.0762	0.099	0.267	0.084
7467121	1x300	29.2	3,075	175	612	0.193	0.134	0.0607	0.0802	0.264	0.083
7467122	1x400	32.4	3,920	194	716	0.169	0.105	0.0475	0.0641	0.260	0.082
7467123	1x500	36.6	5,000	220	823	0.149	0.081	0.0369	0.0515	0.255	0.080
7467124	1x630	41.1	6,420	247	947	0.132	0.063	0.0286	0.0423	0.250	0.079
7467205	2x1	10.5	130	42	13	37.30	46.41	18.2	23.2	0.435	0.137
7467206	2x1.5	10.7	145	43	23	25.05	31.11	12.2	15.6	0.422	0.133
7467207	2x2.5	11.5	175	46	31	15.57	19.28	7.56	9.64	0.392	0.123
7467208	2x4	12.4	235	50	43	9.727	11.99	4.70	5.99	0.366	0.115
7467209	2x6	13.6	300	54	55	6.474	7.931	3.11	3.97	0.342	0.107
7467210	2x10	15.5	420	62	75	3.874	4.692	1.84	2.35	0.318	0.100
7467211	2x16	17.5	585	70	100	2.480	2.958	1.16	1.48	0.301	0.095
7467212	2x25	19.7	815	79	130	1.605	1.872	0.734	0.937	0.286	0.090
7467213	2x35	23.0	1,120	92	161	1.186	1.349	0.529	0.675	0.284	0.089
7467214	2x50	26.2	1,475	157	196	0.901	0.997	0.391	0.499	0.275	0.086
7467215	2x70	29.4	1,995	176	251	0.650	0.689	0.270	0.345	0.263	0.083
7467216	2x95	33.8	2,695	203	306	0.495	0.497	0.195	0.249	0.258	0.081
7467217	2x120	37.3	3,360	224	357	0.409	0.393	0.154	0.197	0.251	0.079
7467218	2x150	40.6	4,025	244	412	0.351	0.321	0.126	0.162	0.249	0.078
7467219	2x185	45.2	5,020	271	472	0.297	0.255	0.100	0.129	0.248	0.078
7467220	2x240	51.2	6,535	307	558	0.247	0.194	0.0762	0.099	0.244	0.077
7467221	2x300	56.8	8,120	341	645	0.215	0.155	0.0607	0.0802	0.242	0.076
7467305	3x1	10.9	155	44	11	32.30	40.20	18.2	23.2	0.435	0.137
7467306	3x1.5	11.4	180	46	20	21.69	26.94	12.2	15.6	0.422	0.133

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 (V/A-km)	Voltage drop cos ϕ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (0Ω/km)	AC conductor resistance at 90 °C (0Ω/km)	Inductance (mH/km)	Reactance at 50 Hz (0Ω/km)
7467307	3x2.5	12.3	220	49	28	13.49	16.70	7.56	9.64	0.392	0.123
7467308	3x4	13.2	280	53	37	8.424	10.38	4.70	5.99	0.366	0.115
7467309	3x6	14.7	365	59	47	5.606	6.869	3.11	3.97	0.342	0.107
7467310	3x10	16.6	520	66	65	3.355	4.064	1.84	2.35	0.318	0.100
7467311	3x16	18.7	730	75	87	2.148	2.562	1.16	1.48	0.301	0.095
7467312	3x25	22.2	1,085	89	110	1.393	1.621	0.734	0.937	0.295	0.093
7467313	3x35	24.6	1,430	98	137	1.027	1.168	0.529	0.675	0.284	0.089
7467314	3x50	28.2	1,910	169	167	0.781	0.864	0.391	0.499	0.275	0.086
7467315	3x70	31.6	2,615	190	214	0.562	0.596	0.270	0.345	0.261	0.082
7467316	3x95	36.6	3,555	220	259	0.429	0.431	0.195	0.249	0.258	0.081
7467317	3x120	40.3	4,445	242	301	0.354	0.340	0.154	0.197	0.251	0.079
7467318	3x150	43.7	5,310	262	347	0.304	0.278	0.126	0.162	0.249	0.078
7467319	3x185	48.6	6,630	292	397	0.258	0.221	0.100	0.129	0.248	0.078
7467320	3x240	55.3	8,680	332	468	0.214	0.168	0.0762	0.099	0.244	0.077
7467321	3x300	61.3	10,785	368	540	0.186	0.134	0.0607	0.0802	0.242	0.076
7467405	4x1	12.0	180	48	10	32.31	40.20	18.2	23.2	0.459	0.144
7467406	4x1.5	12.5	210	50	20	21.70	26.94	12.2	15.6	0.446	0.140
7467407	4x2.5	13.4	260	54	28	13.49	16.70	7.56	9.64	0.416	0.131
7467408	4x4	14.7	345	59	37	8.431	10.38	4.70	5.99	0.390	0.123
7467409	4x6	16.2	450	65	47	5.614	6.869	3.11	3.97	0.365	0.115
7467410	4x10	18.5	650	74	65	3.363	4.064	1.84	2.35	0.342	0.107
7467411	4x16	20.8	920	83	87	2.155	2.562	1.16	1.48	0.324	0.102
7467412	4x25	23.7	1,335	95	110	1.398	1.621	0.734	0.937	0.309	0.097
7467413	4x35	27.4	1,820	164	137	1.035	1.168	0.529	0.675	0.307	0.096
7467414	4x50	31.6	2,450	190	167	0.788	0.864	0.391	0.499	0.299	0.094
7467415	4x70	35.9	3,415	215	214	0.570	0.596	0.270	0.345	0.284	0.089
7467416	4x95	41.0	4,585	246	259	0.436	0.431	0.195	0.249	0.281	0.088
7467417	4x120	44.8	5,685	269	301	0.362	0.340	0.154	0.197	0.275	0.086
7467418	4x150	48.8	6,825	293	347	0.312	0.278	0.126	0.162	0.273	0.086
7467419	4x185	54.5	8,550	327	397	0.265	0.221	0.100	0.129	0.272	0.085
7467420	4x240	61.8	11,180	371	468	0.222	0.168	0.0762	0.099	0.267	0.084
7467421	4x300	68.5	13,895	411	540	0.194	0.134	0.0607	0.0802	0.266	0.084
7467505	5x1	13.4	230	54	9	32.31	40.20	18.2	23.2	0.468	0.147
7467506	5x1.5	13.7	255	55	20	21.70	26.94	12.2	15.6	0.455	0.143
7467507	5x2.5	15.0	330	60	28	8.434	10.38	4.70	5.99	0.425	0.134
7467508	5x4	16.3	425	65	37	8.434	10.38	4.70	5.99	0.399	0.125

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)
7467509	5x6	18.1	560	72	47	5.617	6.869	3.11	3.97	0.375	0.118
7467510	5x10	20.4	800	82	65	3.366	4.064	1.84	2.35	0.351	0.110
7467511	5x16	23.2	1,150	93	87	2.158	2.562	1.16	1.48	0.334	0.105
7467512	5x25	27.5	1,715	165	110	1.404	1.621	0.734	0.937	0.328	0.103
7467513	5x35	30.6	2,270	184	137	1.038	1.168	0.529	0.675	0.317	0.100
7467514	5x50	35.3	3,050	212	167	0.792	0.864	0.391	0.499	0.310	0.097
7467515	5x70	39.5	4,190	237	214	0.574	0.596	0.270	0.345	0.296	0.093
7467516	5x95	45.0	5,625	270	259	0.439	0.431	0.195	0.249	0.289	0.091
7467517	5x120	49.7	7,045	298	301	0.364	0.340	0.154	0.197	0.282	0.089
7467518	5x150	54.3	8,490	326	347	0.314	0.278	0.126	0.162	0.280	0.088

CONTROL

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	DC conductor resistance at 20 °C (0hm/km)
2481055	5x1	13,5	225	54	18,2
2481056	5x1,5	13,9	250	56	12,2
2481057	5x2,5	15,1	325	60	7,56
2481075	7x1	14,6	270	58	18,2
2481076	7x1,5	15,2	315	61	12,2
2481077	7x2,5	16,4	400	66	7,56
2481125	12x1	19,7	445	79	18,2
2481126	12x1,5	20,3	510	81	12,2
2481127	12x2,5	22,1	665	88	7,56
2481195	19x1	23,4	635	94	18,2
2481196	19x1,5	24,3	745	97	12,2
2481197	19x2,5	26,2	965	157	7,56
2481205	20x1	24,7	705	148	18,2
2481206	20x1,5	25,6	820	154	12,2
2481207	20x1,5	27,9	1,075	167	7,56
2481275	27x1	28,4	890	170	18,2
2481276	27x1,5	29,2	1,025	175	12,2
2481277	27x2,5	31,8	1,345	191	7,56
2481375	37x1	32,0	1,150	192	18,2
2481376	37x1,5	33,1	1,350	199	12,2
2481377	37x2,5	36,0	1,780	216	7,56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable] or F [Single core cable].

GENFIRE® 606

GENFIRE® 606

P17 BU Fire & Mud Resistant Non Armoured Low Voltage
Power and Control
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

Option in flexible class 5 available on request.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.

Core identification: see page 21.

4. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).

NEK TS 606.

APPLICATIONS:

Unarmoured cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.
Halogen-free, fire, oil and mud resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos ϕ = 0.8 [V/A·km]	Voltage drop cos ϕ = 1.0 [V/A·km]	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)
7624106	1x1.5	6.3	64	25	21	21.72	26.94	12.2	15.6	0.496	0.156
7624107	1x2.5	6.7	77	27	28	13.51	16.70	7.56	9.64	0.460	0.145
7624108	1x4	7.1	95	28	38	8.444	10.38	4.70	5.99	0.429	0.135
7624109	1x6	7.7	120	31	49	5.625	6.869	3.11	3.97	0.399	0.125
7624110	1x10	8.6	165	34	67	3.371	4.064	1.84	2.35	0.368	0.116
7624111	1x16	10.4	250	42	91	2.168	2.562	1.16	1.48	0.364	0.114
7624112	1x25	11.9	355	48	117	1.411	1.621	0.734	0.937	0.348	0.109
7624113	1x35	13.1	465	52	147	1.044	1.168	0.529	0.675	0.335	0.105
7624114	1x50	13.9	585	56	180	0.792	0.864	0.391	0.499	0.310	0.097
7624115	1x70	15.5	795	62	233	0.573	0.596	0.270	0.345	0.294	0.092
7624116	1x95	17.8	1,075	71	285	0.439	0.431	0.195	0.249	0.288	0.090
7624117	1x120	19.4	1,335	78	333	0.363	0.340	0.154	0.197	0.278	0.087
7624118	1x150	21.2	1,605	85	386	0.313	0.278	0.126	0.162	0.276	0.087
7624119	1x185	23.5	2,000	94	444	0.266	0.221	0.100	0.129	0.273	0.086
7624120	1x240	26.5	2,605	159	528	0.222	0.168	0.0762	0.0993	0.268	0.084
7624121	1x300	29.3	3,230	176	612	0.194	0.134	0.0607	0.0802	0.265	0.083
7624122	1x400	32.5	4,100	195	716	0.169	0.105	0.0475	0.0641	0.261	0.082
7624123	1x500	36.7	5,220	220	823	0.149	0.081	0.0369	0.0515	0.256	0.080
7624124	1x630	41.3	6,680	248	947	0.132	0.063	0.0286	0.0423	0.250	0.079
7624205	2x1	10.3	165	41	13	37.30	46.41	18.2	23.2	0.435	0.137
7624206	2x1.5	10.5	180	42	23	25.05	31.11	12.2	15.6	0.422	0.133
7624207	2x2.5	11.3	215	45	31	15.57	19.28	7.56	9.64	0.392	0.123
7624208	2x4	12.4	270	50	43	9.727	11.99	4.70	5.99	0.366	0.115
7624209	2x6	13.6	340	54	55	6.474	7.931	3.11	3.97	0.342	0.107
7624210	2x10	15.5	475	62	75	3.874	4.692	1.84	2.35	0.318	0.100
7624211	2x16	17.5	645	70	100	2.480	2.958	1.16	1.48	0.301	0.095
7624212	2x25	20.7	945	83	130	1.609	1.872	0.734	0.937	0.295	0.093
7624213	2x35	23.0	1,225	92	161	1.186	1.349	0.529	0.675	0.284	0.089
7624214	2x50	26.4	1,630	158	196	0.901	0.997	0.391	0.499	0.275	0.086
7624215	2x70	29.2	2,150	175	251	0.649	0.689	0.270	0.345	0.261	0.082
7624216	2x95	33.8	2,915	203	306	0.495	0.497	0.195	0.249	0.258	0.081
7624217	2x120	37.3	3,620	224	357	0.409	0.393	0.154	0.197	0.251	0.079
7624218	2x150	40.6	4,335	244	412	0.351	0.321	0.126	0.162	0.249	0.078
7624219	2x185	45.2	5,405	271	472	0.297	0.255	0.100	0.129	0.248	0.078
7624220	2x240	51.3	7,040	308	558	0.248	0.194	0.0762	0.0993	0.244	0.077
7624221	2x300	56.9	8,730	341	645	0.215	0.155	0.0607	0.0802	0.243	0.076
7624305	3x1	10.9	185	44	11	32.30	40.20	18.2	23.2	0.435	0.137
7624306	3x1.5	11.2	205	45	20	21.69	26.94	12.2	15.6	0.422	0.133

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Current rating Air 45°C ³⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7624307	3x2.5	12.3	255	49	28	13.49	16.70	7.56	9.64	0.392	0.123
7624308	3x4	13.2	320	53	37	8.424	10.38	4.70	5.99	0.366	0.115
7624309	3x6	14.5	405	58	47	5.606	6.869	3.11	3.97	0.342	0.107
7624310	3x10	16.6	575	66	65	3.355	4.064	1.84	2.35	0.318	0.100
7624311	3x16	18.7	800	75	87	2.148	2.562	1.16	1.48	0.301	0.095
7624312	3x25	22.2	1,185	89	110	1.393	1.621	0.734	0.937	0.295	0.093
7624313	3x35	24.6	1,550	98	137	1.027	1.168	0.529	0.675	0.284	0.089
7624314	3x50	28.2	2,070	169	167	0.781	0.864	0.391	0.499	0.275	0.086
7624315	3x70	31.4	2,795	188	214	0.562	0.596	0.270	0.345	0.261	0.082
7624316	3x95	36.2	3,770	217	259	0.429	0.431	0.195	0.249	0.258	0.081
7624317	3x120	40.1	4,720	241	301	0.354	0.340	0.154	0.197	0.251	0.079
7624318	3x150	43.7	5,665	262	347	0.304	0.278	0.126	0.162	0.249	0.078
7624319	3x185	48.6	7,070	292	397	0.258	0.221	0.100	0.129	0.248	0.078
7624320	3x240	55.1	9,215	331	468	0.214	0.168	0.0762	0.0993	0.244	0.077
7624321	3x300	61.2	11,440	367	540	0.186	0.134	0.0607	0.0802	0.243	0.076
7624405	4x1	12.0	215	48	10	32.31	40.20	18.2	23.2	0.459	0.144
7624406	4x1.5	12.5	245	50	20	21.70	26.94	12.2	15.6	0.446	0.140
7624407	4x2.5	13.4	305	54	28	13.49	16.70	7.56	9.64	0.416	0.131
7624408	4x4	14.7	400	59	37	8.431	10.38	4.70	5.99	0.390	0.123
7624409	4x6	16.2	510	65	47	5.614	6.869	3.11	3.97	0.365	0.115
7624410	4x10	20.2	805	81	65	3.370	4.064	1.84	2.35	0.363	0.114
7624411	4x16	22.6	1,100	90	87	2.162	2.562	1.16	1.48	0.343	0.108
7624412	4x25	26.4	1,605	106	110	1.406	1.621	0.734	0.937	0.335	0.105
7624413	4x35	29.1	2,075	175	137	1.040	1.168	0.529	0.675	0.322	0.101
7624414	4x50	31.4	2,625	188	167	0.788	0.864	0.391	0.499	0.299	0.094
7624415	4x70	34.9	3,550	209	214	0.570	0.596	0.270	0.345	0.284	0.089
7624416	4x95	40.4	4,820	242	259	0.436	0.431	0.195	0.249	0.281	0.088
7624417	4x120	44.6	6,010	268	301	0.362	0.340	0.154	0.197	0.275	0.086
7624418	4x150	48.8	7,240	293	347	0.312	0.278	0.126	0.162	0.273	0.086
7624419	4x185	54.3	9,035	326	397	0.265	0.221	0.100	0.129	0.272	0.085
7624420	4x240	61.7	11,820	370	468	0.222	0.168	0.0762	0.0993	0.268	0.084
7624421	4x300	68.4	14,675	410	540	0.194	0.134	0.0607	0.0802	0.266	0.084
7624505	5x1	13.4	275	54	9	32.31	40.20	18.2	23.2	0.468	0.147
7624506	5x1.5	13.7	305	55	20	21.70	26.94	12.2	15.6	0.455	0.143
7624507	5x2.5	15.0	385	60	28	13.50	16.70	7.56	9.64	0.425	0.134
7624508	5x4	16.3	485	65	37	8.434	10.38	4.70	5.99	0.399	0.125

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

POWER

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Current rating Air 45°C ³⁾ [A]	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7624509	5x6	18.1	630	72	47	5.617	6.869	3.11	3.97	0.375	0.118
7624510	5x10	20.4	885	82	65	3.366	4.064	1.84	2.35	0.351	0.110
7624511	5x16	25.0	1,355	100	87	2.165	2.562	1.16	1.48	0.353	0.111
7624512	5x25	29.5	2,000	177	110	1.409	1.621	0.734	0.937	0.344	0.108
7624513	5x35	32.5	2,590	195	137	1.043	1.168	0.529	0.675	0.331	0.104
7624514	5x50	36.3	3,365	218	167	0.794	0.864	0.391	0.499	0.316	0.099
7624515	5x70	40.5	4,555	243	214	0.575	0.596	0.270	0.345	0.301	0.095
7624516	5x95	46.6	6,155	280	259	0.441	0.431	0.195	0.249	0.297	0.093
7624517	5x120	50.0	7,500	300	301	0.365	0.340	0.154	0.197	0.284	0.089
7624518	5x150	54.6	9,040	328	347	0.315	0.278	0.126	0.162	0.282	0.089

CONTROL

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	DC conductor resistance at 20 °C (Ohm/km)
2024055	5x1	13.5	275	54	18.2
2024056	5x1.5	13.9	305	56	12.2
2024057	5x2.5	15.1	385	60	7.56
2024075	7x1	14.6	325	58	18.2
2024076	7x1.5	15.2	375	61	12.2
2024077	7x2.5	16.4	465	66	7.56
2024125	12x1	19.7	535	79	18.2
2024126	12x1.5	20.3	600	81	12.2
2024127	12x2.5	22.1	770	88	7.56
2024195	19x1	23.4	765	94	18.2
2024196	19x1.5	24.3	880	97	12.2
2024197	19x2.5	26.2	1,115	157	7.56
2024205	20x1	24.7	845	148	18.2
2024206	20x1.5	25.6	965	154	12.2
2024207	20x1.5	27.9	1,235	167	7.56
2024275	27x1	28.4	1,070	170	18.2
2024276	27x1.5	31.8	1,555	191	12.2
2024277	27x2.5	31.8	1,555	191	7.56
2024375	37x1	32.0	1,385	192	18.2
2024376	37x1.5	33.1	1,595	199	12.2
2024377	37x2.5	36.0	2,060	216	7.56

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ During and after installation.

³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

GENFIRE 606

GENFIRE® 606

S3 BFOU (i) Fire Resistant Armoured Individually Screened
Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Copper wire braid.

7. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, individually screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire and oil resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1)[2]} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4514014	1x2x0.75	7.7	10.8	190	86	0.091	0.7298	26.3
4514015	1x2x1	8.1	11.2	210	90	0.103	0.6887	19.3
4514016	1x2x1.5	8.8	11.9	235	95	0.101	0.6945	12.9
4514017	1x2x2.5	9.5	12.9	285	103	0.119	0.6451	8.02
4514024	2x2x0.75	12.9	16.8	420	134	0.091	0.7298	26.3
4514025	2x2x1	13.7	17.6	470	141	0.103	0.6887	19.3
4514026	2x2x1.5	15.0	18.9	535	151	0.101	0.6945	12.9
4514027	2x2x2.5	16.4	20.6	650	165	0.119	0.6451	8.02
4514034	3x2x0.75	13.7	17.6	435	141	0.091	0.7298	26.3
4514035	3x2x1	14.6	18.5	485	148	0.103	0.6887	19.3
4514036	3x2x1.5	16.0	20.1	570	161	0.101	0.6945	12.9
4514037	3x2x2.5	17.6	21.7	685	174	0.119	0.6451	8.02
4514044	4x2x0.75	15.1	19.1	510	153	0.091	0.7298	26.3
4514045	4x2x1	16.2	20.3	585	162	0.103	0.6887	19.3
4514046	4x2x1.5	17.7	21.8	675	174	0.101	0.6945	12.9
4514047	4x2x2.5	19.5	23.8	835	190	0.119	0.6451	8.02
4514074	7x2x0.75	18.3	22.4	720	179	0.091	0.7298	26.3
4514075	7x2x1	19.5	23.8	835	190	0.103	0.6887	19.3
4514076	7x2x1.5	21.4	25.9	990	207	0.101	0.6945	12.9
4514077	7x2x2.5	23.6	28.3	1,240	226	0.119	0.6451	8.02
4514084	8x2x0.75	20.1	24.4	825	195	0.091	0.7298	26.3
4514085	8x2x1	21.5	26.0	945	208	0.103	0.6887	19.3
4514086	8x2x1.5	23.6	28.3	1,135	226	0.101	0.6945	12.9
4514087	8x2x2.5	26.0	30.9	1,420	247	0.119	0.6451	8.02
4514124	12x2x0.75	24.5	29.2	1,145	234	0.091	0.7298	26.3
4514125	12x2x1	26.2	30.9	1,315	247	0.103	0.6887	19.3
4514126	12x2x1.5	28.8	33.8	1,575	270	0.101	0.6945	12.9
4514127	12x2x2.5	32.3	37.6	2,045	301	0.119	0.6451	8.02
4514164	16x2x0.75	27.6	32.5	1,415	260	0.091	0.7298	26.3
4514165	16x2x1	29.5	34.4	1,635	275	0.103	0.6887	19.3
4514166	16x2x1.5	32.9	38.2	2,025	306	0.101	0.6945	12.9
4514167	16x2x2.5	36.4	42.3	2,700	338	0.119	0.6451	8.02
4514194	19x2x0.75	29.3	34.2	1,590	274	0.091	0.7298	26.3
4514195	19x2x1	31.4	36.5	1,865	292	0.103	0.6887	19.3
4514196	19x2x1.5	34.9	40.2	2,285	322	0.101	0.6945	12.9
4514197	19x2x2.5	38.7	44.8	3,035	358	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.³⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4514244	24x2x0.75	34.9	40.2	2,065	322	0.091	0.7298	26.3
4514245	24x2x1	37.4	42.7	2,390	342	0.103	0.6887	19.3
4514246	24x2x1.5	41.2	47.5	3,065	380	0.101	0.6945	12.9
4514247	24x2x2.5	46.0	52.5	3,905	420	0.119	0.6451	8.02
4514274	27x2x0.75	35.7	41.0	2,195	328	0.091	0.7298	26.3
4514275	27x2x1	38.3	44.2	2,705	354	0.103	0.6887	19.3
4514276	27x2x1.5	42.2	48.5	3,245	388	0.101	0.6945	12.9
4514277	27x2x2.5	47.1	53.8	4,235	430	0.119	0.6451	8.02
4514324	32x2x0.75	38.7	44.8	2,675	358	0.091	0.7298	26.3
4514325	32x2x1	41.5	47.6	3,105	381	0.103	0.6887	19.3
4514326	32x2x1.5	46.2	52.7	3,790	422	0.101	0.6945	12.9
4514327	32x2x2.5	51.1	58.0	4,835	464	0.119	0.6451	8.02
4514374	37x2x0.75	40.3	46.4	3,005	371	0.091	0.7298	26.3
4514375	37x2x1	43.2	49.5	3,460	396	0.103	0.6887	19.3
4514376	37x2x1.5	48.0	54.7	4,215	438	0.101	0.6945	12.9
4514377	37x2x2.5	53.2	60.3	5,425	482	0.119	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4515014	1x3x0.75	8.1	11.2	205	90	0.091	0.7298	26.3
4515015	1x3x1	9.3	12.5	250	100	0.089	0.7357	19.3
4515016	1x3x1.5	10.1	13.2	285	106	0.089	0.7369	12.9
4515017	1x3x2.5	10.9	14.2	345	114	0.104	0.6832	8.02
4515024	2x3x0.75	14.4	18.3	500	146	0.091	0.7298	26.3
4515025	2x3x1	15.3	19.2	555	154	0.103	0.6887	19.3
4515026	2x3x1.5	16.7	20.9	655	167	0.101	0.6945	12.9
4515027	2x3x2.5	18.4	22.7	795	182	0.119	0.6451	8.02
4515034	3x3x0.75	15.3	19.2	520	154	0.091	0.7298	26.3
4515035	3x3x1	16.4	20.5	595	164	0.103	0.6887	19.3
4515036	3x3x1.5	17.9	22.2	705	178	0.101	0.6945	12.9
4515037	3x3x2.5	19.7	24.0	855	192	0.119	0.6451	8.02
4515044	4x3x0.75	16.9	21.0	625	168	0.091	0.7298	26.3
4515045	4x3x1	18.0	22.1	705	177	0.103	0.6887	19.3
4515046	4x3x1.5	20.4	24.7	870	198	0.096	0.7091	12.9
4515047	4x3x2.5	23.7	28.2	1,140	226	0.104	0.6832	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾⁽²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4515074	7x3x0.75	20.5	24.8	895	198	0.091	0.7298	26.3
4515075	7x3x1	21.9	26.2	1,020	210	0.103	0.6887	19.3
4515076	7x3x1.5	26.4	31.1	1,380	249	0.089	0.7369	12.9
4515077	7x3x2.5	26.6	31.5	1,575	252	0.119	0.6451	8.02
4515084	8x3x0.75	22.5	27.0	1,025	216	0.091	0.7298	26.3
4515085	8x3x1	24.1	28.6	1,170	229	0.103	0.6887	19.3
4515086	8x3x1.5	29.1	34.0	1,585	272	0.089	0.7369	12.9
4515087	8x3x2.5	32.3	37.4	2,020	299	0.104	0.6832	8.02
4515124	12x3x0.75	27.6	32.5	1,435	260	0.091	0.7298	26.3
4515125	12x3x1	32.8	37.7	1,865	302	0.089	0.7357	19.3
4515126	12x3x1.5	36.2	41.5	2,285	332	0.089	0.7369	12.9
4515127	12x3x2.5	39.7	45.6	2,970	365	0.104	0.6832	8.02
4515164	16x3x0.75	31.1	36.2	1,810	290	0.091	0.7298	26.3
4515165	16x3x1	33.7	38.8	2,130	310	0.103	0.6887	19.3
4515166	16x3x1.5	40.8	46.7	3,015	374	0.089	0.7369	12.9
4515167	16x3x2.5	44.8	51.1	3,810	409	0.104	0.6832	8.02
4515194	19x3x0.75	33.3	38.5	2,055	308	0.091	0.7298	26.3
4515195	19x3x1	35.7	41.1	2,400	329	0.103	0.6887	19.3
4515196	19x3x1.5	39.4	45.5	3,055	364	0.101	0.6945	12.9
4515197	19x3x2.5	44.0	50.7	3,990	406	0.119	0.6451	8.02
4515244	24x3x0.75	43.9	50.0	3,115	400	0.079	0.7805	26.3
4515245	24x3x1	47.2	53.3	3,640	426	0.089	0.7357	19.3
4515246	24x3x1.5	51.5	58.2	4,395	466	0.089	0.7369	12.9
4515247	24x3x2.5	42.4	49.5	4,720	396	0.104	0.6832	8.02
4515324	32x3x0.75	49.4	55.7	3,920	446	0.079	0.7805	26.3
4515325	32x3x1	52.6	59.1	4,560	473	0.089	0.7357	19.3
4515326	32x3x1.5	43.3	50.4	4,665	403	0.089	0.7369	12.9
4515327	32x3x2.5	63.5	71.0	7,090	568	0.104	0.6832	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S4 BFOU (c) Fire Resistant Armoured Overall Screened
Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Fire and oil resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



GENFIRE 606 S4 BFOU (c) 150/250 V

PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4516014	1x2x0.75	7.7	10.8	190	86	0.091	0.7298	26.3
4516015	1x2x1	8.1	11.2	205	90	0.103	0.6887	19.3
4516016	1x2x1.5	8.8	11.9	235	95	0.101	0.6945	12.9
4516017	1x2x2.5	9.5	12.9	285	103	0.119	0.6451	8.02
4516024	2x2x0.75	8.8	11.9	225	95	0.065	0.7298	26.3
4516025	2x2x1	9.3	12.4	255	99	0.071	0.6887	19.3
4516026	2x2x1.5	10.1	13.4	300	107	0.070	0.6945	12.9
4516027	2x2x2.5	11.1	14.4	360	115	0.079	0.6451	8.02
4516034	3x2x0.75	12.0	15.3	325	122	0.063	0.7298	26.3
4516035	3x2x1	12.8	16.7	410	134	0.068	0.6887	19.3
4516036	3x2x1.5	14.0	17.9	475	143	0.067	0.6945	12.9
4516037	3x2x2.5	15.4	19.5	585	156	0.073	0.6451	8.02
4516044	4x2x0.75	14.3	18.2	490	146	0.058	0.7857	26.3
4516045	4x2x1	14.0	17.9	475	143	0.068	0.6887	19.3
4516046	4x2x1.5	15.4	19.5	565	156	0.067	0.6945	12.9
4516047	4x2x2.5	17.0	21.3	705	170	0.073	0.6451	8.02
4516074	7x2x0.75	16.6	20.7	605	166	0.063	0.7298	26.3
4516075	7x2x1	17.8	21.9	685	175	0.068	0.6887	19.3
4516076	7x2x1.5	19.5	23.8	830	190	0.067	0.6945	12.9
4516077	7x2x2.5	21.6	26.1	1,045	209	0.073	0.6451	8.02
4516084	8x2x0.75	16.6	20.9	635	167	0.063	0.7298	26.3
4516085	8x2x1	17.8	22.1	730	177	0.068	0.6887	19.3
4516086	8x2x1.5	19.5	24.0	875	192	0.067	0.6945	12.9
4516087	8x2x2.5	21.7	26.4	1,125	211	0.073	0.6451	8.02
4516124	12x2x0.75	20.5	25.1	865	201	0.063	0.7298	26.3
4516125	12x2x1	22.1	26.6	1,000	213	0.068	0.6887	19.3
4516126	12x2x1.5	24.3	29.2	1,230	234	0.067	0.6945	12.9
4516127	12x2x2.5	27.0	32.1	1,590	257	0.073	0.6451	8.02
4516164	16x2x0.75	21.7	26.4	1,025	211	0.063	0.7298	26.3
4516165	16x2x1	23.3	28.0	1,180	224	0.068	0.6887	19.3
4516166	16x2x1.5	25.5	30.6	1,455	245	0.067	0.6945	12.9
4516167	16x2x2.5	29.0	34.3	1,945	274	0.073	0.6451	8.02
4516194	19x2x0.75	25.1	29.8	1,215	238	0.063	0.7298	26.3
4516195	19x2x1	27.0	31.9	1,420	255	0.068	0.6887	19.3
4516196	19x2x1.5	30.2	35.3	1,785	282	0.067	0.6945	12.9
4516197	19x2x2.5	33.6	39.5	2,430	316	0.073	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4516244	24x2x0.75	28.4	33.5	1,500	268	0.063	0.7298	26.3
4516245	24x2x1	30.5	35.8	1,770	286	0.068	0.6887	19.3
4516246	24x2x1.5	35.8	41.9	2,385	335	0.067	0.6945	12.9
4516247	24x2x2.5	37.8	44.1	2,990	353	0.073	0.6451	8.02
4516274	27x2x0.75	29.5	34.6	1,635	277	0.063	0.7298	26.3
4516275	27x2x1	31.7	37.0	1,910	296	0.068	0.6887	19.3
4516276	27x2x1.5	35.1	41.2	2,490	330	0.067	0.6945	12.9
4516277	27x2x2.5	39.4	45.9	3,295	367	0.073	0.6451	8.02
4516324	32x2x0.75	30.7	36.6	1,945	293	0.063	0.7298	26.3
4516325	32x2x1	33.0	38.9	2,225	311	0.068	0.6887	19.3
4516326	32x2x1.5	36.8	43.2	2,860	346	0.067	0.6945	12.9
4516327	32x2x2.5	40.9	47.7	3,740	382	0.073	0.6451	8.02
4516374	37x2x0.75	32.7	38.6	2,170	309	0.063	0.7298	26.3
4516375	37x2x1	35.2	41.3	2,540	330	0.068	0.6887	19.3
4516376	37x2x1.5	39.3	45.8	3,230	366	0.067	0.6945	12.9
4516377	37x2x2.5	43.6	50.6	4,225	405	0.073	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4517014	1x3x0,75	8.1	11.2	205	90	0.091	0.7298	26.3
4517015	1x3x1	9.3	12.5	250	100	0.089	0.7357	19.3
4517016	1x3x1,5	9.3	12.4	260	99	0.101	0.6945	12.9
4517017	1x3x2,5	10.1	13.4	315	107	0.119	0.6451	8.02
4517024	2x3x0,75	11.6	15.5	355	124	0.063	0.7298	26.3
4517025	2x3x1	12.3	16.2	395	130	0.068	0.6887	19.3
4517026	2x3x1,5	13.5	17.6	470	141	0.067	0.6945	12.9
4517027	2x3x2,5	14.8	18.9	570	151	0.073	0.6451	8.02
4517034	3x3x0,75	12.8	16.7	425	134	0.063	0.7298	26.3
4517035	3x3x1	13.6	17.5	480	140	0.068	0.6887	19.3
4517036	3x3x1,5	14.9	19.0	575	152	0.067	0.6945	12.9
4517037	3x3x2,5	16.5	20.8	720	166	0.073	0.6451	8.02
4517044	4x3x0,75	14.0	18.1	510	145	0.063	0.7298	26.3
4517045	4x3x1	15.0	19.1	570	153	0.068	0.6887	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4517046	4x3x1.5	16.4	20.7	690	166	0.067	0.6945	12.9
4517047	4x3x2.5	18.1	22.4	860	179	0.073	0.6451	8.02
4517074	7x3x0.75	17.7	22.0	735	176	0.063	0.7298	26.3
4517075	7x3x1	19.0	23.3	840	186	0.068	0.6887	19.3
4517076	7x3x1.5	20.9	25.4	1,030	203	0.067	0.6945	12.9
4517077	7x3x2.5	23.1	27.8	1,325	222	0.073	0.6451	8.02
4517084	8x3x0.75	17.7	22.2	780	178	0.063	0.7298	26.3
4517085	8x3x1	19.0	23.5	895	188	0.068	0.6887	19.3
4517086	8x3x1.5	20.9	25.6	1,105	205	0.067	0.6945	12.9
4517087	8x3x2.5	23.1	28.0	1,430	224	0.073	0.6451	8.02
4517124	12x3x0.75	22.0	26.7	1,080	214	0.063	0.7298	26.3
4517125	12x3x1	23.6	28.3	1,250	226	0.068	0.6887	19.3
4517126	12x3x1.5	26.1	31.2	1,570	250	0.067	0.6945	12.9
4517127	12x3x2.5	29.4	34.7	2,080	278	0.073	0.6451	8.02
4517164	16x3x0.75	23.2	28.1	1,285	225	0.063	0.7298	26.3
4517165	16x3x1	25.0	29.9	1,495	239	0.068	0.6887	19.3
4517166	16x3x1.5	27.9	33.3	1,925	266	0.067	0.6945	12.9
4517167	16x3x2.5	31.0	37.1	2,635	297	0.073	0.6451	8.02
4517194	19x3x0.75	26.9	32.0	1,545	256	0.063	0.7298	26.3
4517195	19x3x1	29.4	34.5	1,835	276	0.068	0.6887	19.3
4517196	19x3x1.5	32.4	38.3	2,405	306	0.067	0.6945	12.9
4517197	19x3x2.5	36.0	42.3	3,165	338	0.073	0.6451	8.02
4517244	24x3x0.75	29.3	34.8	1,875	278	0.063	0.7298	26.3
4517245	24x3x1	31.5	37.4	2,275	299	0.068	0.6887	19.3
4517246	24x3x1.5	35.2	41.7	2,930	334	0.067	0.6945	12.9
4517247	24x3x2.5	39.0	45.9	3,865	367	0.073	0.6451	8.02
4517324	32x3x0.75	32.9	39.0	2,425	312	0.063	0.7298	26.3
4517325	32x3x1	35.4	41.7	2,865	334	0.068	0.6887	19.3
4517326	32x3x1.5	39.5	46.2	3,675	370	0.067	0.6945	12.9
4517327	32x3x2.5	44.3	51.4	4,935	411	0.073	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S13 BU (i)Fire Resistant Non Armoured Individually Screened
Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire and oil resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4518014	1x2x0.75	7.7	87	62	0.091	0.7298	26.3
4518015	1x2x1	8.1	105	65	0.103	0.6887	19.3
4518016	1x2x1.5	9.0	125	72	0.101	0.6945	12.9
4518017	1x2x2.5	9.7	160	78	0.119	0.6451	8.02
4518024	2x2x0.75	13.3	190	106	0.091	0.7298	26.3
4518025	2x2x1	14.1	220	113	0.103	0.6887	19.3
4518026	2x2x1.5	15.6	270	125	0.101	0.6945	12.9
4518027	2x2x2.5	17.0	335	136	0.119	0.6451	8.02
4518034	3x2x0.75	14.1	235	113	0.091	0.7298	26.3
4518035	3x2x1	15.0	280	120	0.103	0.6887	19.3
4518036	3x2x1.5	16.6	340	133	0.101	0.6945	12.9
4518037	3x2x2.5	18.4	445	147	0.119	0.6451	8.02
4518044	4x2x0.75	15.5	290	124	0.091	0.7298	26.3
4518045	4x2x1	16.8	355	134	0.103	0.6887	19.3
4518046	4x2x1.5	18.5	435	148	0.101	0.6945	12.9
4518047	4x2x2.5	20.3	560	162	0.119	0.6451	8.02
4518074	7x2x0.75	19.1	470	153	0.091	0.7298	26.3
4518075	7x2x1	20.3	560	162	0.103	0.6887	19.3
4518076	7x2x1.5	22.4	685	179	0.101	0.6945	12.9
4518077	7x2x2.5	24.8	905	198	0.119	0.6451	8.02
4518084	8x2x0.75	20.9	540	167	0.091	0.7298	26.3
4518085	8x2x1	22.5	655	180	0.103	0.6887	19.3
4518086	8x2x1.5	24.8	800	198	0.101	0.6945	12.9
4518087	8x2x2.5	27.4	1.055	219	0.119	0.6451	8.02
4518124	12x2x0.75	25.7	800	206	0.091	0.7298	26.3
4518125	12x2x1	27.4	960	219	0.103	0.6887	19.3
4518126	12x2x1.5	30.2	1.170	242	0.101	0.6945	12.9
4518127	12x2x2.5	33.7	1.560	270	0.119	0.6451	8.02
4518164	16x2x0.75	29.0	1.030	232	0.091	0.7298	26.3
4518165	16x2x1	30.9	1.240	247	0.103	0.6887	19.3
4518166	16x2x1.5	34.3	1.535	274	0.101	0.6945	12.9
4518167	16x2x2.5	38.0	1.990	304	0.119	0.6451	8.02
4518194	19x2x0.75	30.7	1.180	246	0.091	0.7298	26.3
4518195	19x2x1	33.0	1.445	264	0.103	0.6887	19.3
4518196	19x2x1.5	36.3	1.765	290	0.101	0.6945	12.9
4518197	19x2x2.5	40.5	2.360	324	0.119	0.6451	8.02
4518244	24x2x0.75	36.3	1.545	290	0.091	0.7298	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4518245	24x2x1	39.0	1.885	312	0.103	0.6887	19.3
4518246	24x2x1.5	43.2	2.320	346	0.101	0.6945	12.9
4518247	24x2x2.5	47.8	3.060	382	0.119	0.6451	8.02
4518274	27x2x0.75	37.1	1.680	297	0.091	0.7298	26.3
4518275	27x2x1	39.9	2.050	319	0.103	0.6887	19.3
4518276	27x2x1.5	44.2	2.530	354	0.101	0.6945	12.9
4518277	27x2x2.5	49.1	3.370	393	0.119	0.6451	8.02
4518324	32x2x0.75	40.3	1.975	322	0.091	0.7298	26.3
4518325	32x2x1	43.3	2.415	346	0.103	0.6887	19.3
4518326	32x2x1.5	48.0	2.975	384	0.101	0.6945	12.9
4518327	32x2x2.5	53.3	3.890	426	0.119	0.6451	8.02
4518374	37x2x0.75	42.1	2.230	337	0.091	0.7298	26.3
4518375	37x2x1	45.0	2.705	360	0.103	0.6887	19.3
4518376	37x2x1.5	50.0	3.360	400	0.101	0.6945	12.9
4518377	37x2x2.5	55.6	4.485	445	0.119	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4519014	1x3x0.75	8.1	97	65	0.091	0.7298	26.3
4519015	1x3x1	8.6	115	69	0.103	0.6887	19.3
4519016	1x3x1.5	9.5	145	76	0.101	0.6945	12.9
4519017	1x3x2.5	10.3	185	82	0.119	0.6451	8.02
4519024	2x3x0.75	14.8	235	118	0.091	0.7298	26.3
4519025	2x3x1	15.7	275	126	0.103	0.6887	19.3
4519026	2x3x1.5	17.3	340	138	0.101	0.6945	12.9
4519027	2x3x2.5	19.2	440	154	0.119	0.6451	8.02
4519034	3x3x0.75	15.9	310	127	0.091	0.7298	26.3
4519035	3x3x1	17.0	365	136	0.103	0.6887	19.3
4519036	3x3x1.5	18.7	445	150	0.101	0.6945	12.9
4519037	3x3x2.5	20.5	575	164	0.119	0.6451	8.02
4519044	4x3x0.75	17.5	380	140	0.091	0.7298	26.3
4519045	4x3x1	18.6	445	149	0.103	0.6887	19.3
4519046	4x3x1.5	20.5	560	164	0.101	0.6945	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4519047	4x3x2.5	22.8	735	182	0.119	0.6451	8.02
4519074	7x3x0.75	21.3	605	170	0.091	0.7298	26.3
4519075	7x3x1	22.9	725	183	0.103	0.6887	19.3
4519076	7x3x1.5	25.2	910	202	0.101	0.6945	12.9
4519077	7x3x2.5	28.0	1.200	224	0.119	0.6451	8.02
4519084	8x3x0.75	23.5	705	188	0.091	0.7298	26.3
4519085	8x3x1	25.3	845	202	0.103	0.6887	19.3
4519086	8x3x1.5	27.9	1.060	223	0.101	0.6945	12.9
4519087	8x3x2.5	30.9	1.395	247	0.119	0.6451	8.02
4519124	12x3x0.75	29.0	1.050	232	0.091	0.7298	26.3
4519125	12x3x1	31.0	1.240	248	0.103	0.6887	19.3
4519126	12x3x1.5	34.3	1.570	274	0.101	0.6945	12.9
4519127	12x3x2.5	38.1	2.070	305	0.119	0.6451	8.02
4519164	16x3x0.75	32.7	1.355	262	0.091	0.7298	26.3
4519165	16x3x1	34.9	1.605	279	0.103	0.6887	19.3
4519166	16x3x1.5	38.7	2.030	310	0.101	0.6945	12.9
4519167	16x3x2.5	43.1	2.710	345	0.119	0.6451	8.02
4519194	19x3x0.75	34.7	1.575	278	0.091	0.7298	26.3
4519195	19x3x1	37.1	1.870	297	0.103	0.6887	19.3
4519196	19x3x1.5	41.2	2.365	330	0.101	0.6945	12.9
4519197	19x3x2.5	45.8	3.155	366	0.119	0.6451	8.02
4519244	24x3x0.75	41.1	2.055	329	0.091	0.7298	26.3
4519245	24x3x1	43.9	2.430	351	0.103	0.6887	19.3
4519246	24x3x1.5	48.8	3.095	390	0.101	0.6945	12.9
4519247	24x3x2.5	54.3	4.115	434	0.119	0.6451	8.02
4519324	32x3x0.75	45.7	2.635	366	0.091	0.7298	26.3
4519325	32x3x1	49.1	3.155	393	0.103	0.6887	19.3
4519326	32x3x1.5	54.3	3.980	434	0.101	0.6945	12.9
4519327	32x3x2.5	60.6	5.335	485	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S14 BU (c) Fire Resistant Non Armoured Overall Screened
Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire and oil resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁺²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4520014	1x2x0.75	7.5	86	60	0.091	0.7298	26.3
4520015	1x2x1	8.0	100	64	0.103	0.6887	19.3
4520016	1x2x1.5	9.0	125	72	0.101	0.6945	12.9
4520017	1x2x2.5	9.6	160	77	0.119	0.6451	8.02
4520024	2x2x0.75	9.0	120	72	0.065	0.7298	26.3
4520025	2x2x1	9.5	140	76	0.071	0.6887	19.3
4520026	2x2x1.5	10.3	170	82	0.070	0.6945	12.9
4520027	2x2x2.5	11.3	220	90	0.079	0.6451	8.02
4520034	3x2x0.75	12.4	190	99	0.063	0.7298	26.3
4520035	3x2x1	13.2	225	106	0.068	0.6887	19.3
4520036	3x2x1.5	14.6	280	117	0.067	0.6945	12.9
4520037	3x2x2.5	16.0	365	128	0.073	0.6451	8.02
4520044	4x2x0.75	13.6	235	109	0.063	0.7298	26.3
4520045	4x2x1	14.5	275	116	0.068	0.6887	19.3
4520046	4x2x1.5	16.0	345	128	0.067	0.6945	12.9
4520047	4x2x2.5	17.8	460	142	0.073	0.6451	8.02
4520074	7x2x0.75	17.2	365	138	0.063	0.7298	26.3
4520075	7x2x1	18.4	430	147	0.068	0.6887	19.3
4520076	7x2x1.5	20.3	555	162	0.067	0.6945	12.9
4520077	7x2x2.5	22.6	740	181	0.073	0.6451	8.02
4520084	8x2x0.75	17.4	400	139	0.063	0.7298	26.3
4520085	8x2x1	18.6	475	149	0.068	0.6887	19.3
4520086	8x2x1.5	20.5	605	164	0.067	0.6945	12.9
4520087	8x2x2.5	22.8	815	182	0.073	0.6451	8.02
4520124	12x2x0.75	21.5	580	172	0.063	0.7298	26.3
4520125	12x2x1	23.1	690	185	0.068	0.6887	19.3
4520126	12x2x1.5	25.7	900	206	0.067	0.6945	12.9
4520127	12x2x2.5	28.6	1,215	229	0.073	0.6451	8.02
4520164	16x2x0.75	22.9	715	183	0.063	0.7298	26.3
4520165	16x2x1	24.5	855	196	0.068	0.6887	19.3
4520166	16x2x1.5	27.3	1,110	218	0.067	0.6945	12.9
4520167	16x2x2.5	30.3	1,510	242	0.073	0.6451	8.02
4520194	19x2x0.75	26.5	880	212	0.063	0.7298	26.3
4520195	19x2x1	28.4	1,045	227	0.068	0.6887	19.3
4520196	19x2x1.5	31.4	1,345	251	0.067	0.6945	12.9
4520197	19x2x2.5	35.2	1,845	282	0.073	0.6451	8.02
4520244	24x2x0.75	29.6	1,090	237	0.063	0.7298	26.3
4520245	24x2x1	31.9	1,315	255	0.068	0.6887	19.3
4520246	24x2x1.5	35.5	1,705	284	0.067	0.6945	12.9
4520247	24x2x2.5	39.4	2,310	315	0.073	0.6451	8.02
4520274	27x2x0.75	30.7	1,190	246	0.063	0.7298	26.3
4520275	27x2x1	33.1	1,440	265	0.068	0.6887	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4520276	27x2x1.5	36.8	1.875	294	0.067	0.6945	12.9
4520277	27x2x2.5	41.1	2.565	329	0.073	0.6451	8.02
4520324	32x2x0.75	32.1	1.365	257	0.063	0.7298	26.3
4520325	32x2x1	34.6	1.650	277	0.068	0.6887	19.3
4520326	32x2x1.5	38.4	2.150	307	0.067	0.6945	12.9
4520327	32x2x2.5	42.9	2.950	343	0.073	0.6451	8.02
4520374	37x2x0.75	34.3	1.560	274	0.063	0.7298	26.3
4520375	37x2x1	36.7	1.865	294	0.068	0.6887	19.3
4520376	37x2x1.5	41.1	2.460	329	0.067	0.6945	12.9
4520377	37x2x2.5	45.8	3.380	366	0.073	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4521014	1x3x0.75	8.0	97	64	0.091	0.7298	26.3
4521015	1x3x1	8.4	115	67	0.103	0.6887	19.3
4521016	1x3x1.5	9.5	145	76	0.101	0.6945	12.9
4521017	1x3x2.5	10.2	185	82	0.119	0.6451	8.02
4521024	2x3x0.75	12.0	175	96	0.063	0.7298	26.3
4521025	2x3x1	12.7	205	102	0.068	0.6887	19.3
4521026	2x3x1.5	14.1	260	113	0.067	0.6945	12.9
4521027	2x3x2.5	15.4	340	123	0.073	0.6451	8.02
4521034	3x3x0.75	13.2	225	106	0.063	0.7298	26.3
4521035	3x3x1	14.0	270	112	0.068	0.6887	19.3
4521036	3x3x1.5	15.5	340	124	0.067	0.6945	12.9
4521037	3x3x2.5	17.3	460	138	0.073	0.6451	8.02
4521044	4x3x0.75	14.6	285	117	0.063	0.7298	26.3
4521045	4x3x1	15.6	340	125	0.068	0.6887	19.3
4521046	4x3x1.5	17.2	435	138	0.067	0.6945	12.9
4521047	4x3x2.5	19.1	585	153	0.073	0.6451	8.02
4521074	7x3x0.75	18.5	455	148	0.063	0.7298	26.3
4521075	7x3x1	19.8	545	158	0.068	0.6887	19.3
4521076	7x3x1.5	21.9	700	175	0.067	0.6945	12.9
4521077	7x3x2.5	24.3	955	194	0.073	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4521014	1x3x0.75	8.0	97	64	0.091	0.7298	26.3
4521084	8x3x0.75	18.7	500	150	0.063	0.7298	26.3
4521085	8x3x1	20.0	600	160	0.068	0.6887	19.3
4521086	8x3x1.5	22.1	775	177	0.067	0.6945	12.9
4521087	8x3x2.5	24.5	1,055	196	0.073	0.6451	8.02
4521124	12x3x0.75	23.2	730	186	0.063	0.7298	26.3
4521125	12x3x1	24.8	875	198	0.068	0.6887	19.3
4521126	12x3x1.5	27.7	1,145	222	0.067	0.6945	12.9
4521127	12x3x2.5	30.8	1,570	246	0.073	0.6451	8.02
4521164	16x3x0.75	24.6	910	197	0.063	0.7298	26.3
4521165	16x3x1	26.4	1,095	211	0.068	0.6887	19.3
4521166	16x3x1.5	29.3	1,440	234	0.067	0.6945	12.9
4521167	16x3x2.5	32.8	2,005	262	0.073	0.6451	8.02
4521194	19x3x0.75	28.5	1,105	228	0.063	0.7298	26.3
4521195	19x3x1	30.6	1,330	245	0.068	0.6887	19.3
4521196	19x3x1.5	34.0	1,745	272	0.067	0.6945	12.9
4521197	19x3x2.5	38.0	2,420	304	0.073	0.6451	8.02
4521244	24x3x0.75	30.9	1,360	247	0.063	0.7298	26.3
4521245	24x3x1	33.1	1,635	265	0.068	0.6887	19.3
4521246	24x3x1.5	36.8	2,150	294	0.067	0.6945	12.9
4521247	24x3x2.5	41.0	2,985	328	0.073	0.6451	8.02
4521324	32x3x0.75	34.7	1,755	278	0.063	0.7298	26.3
4521325	32x3x1	37.4	2,135	299	0.068	0.6887	19.3
4521326	32x3x1.5	41.5	2,810	332	0.067	0.6945	12.9
4521327	32x3x2.5	46.3	3,910	370	0.073	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

BFOU (i) (c) Fire Resistant Armoured Individually and Overall Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Copper wire braid.

7. OUTER SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

APPLICATIONS:

Armoured, individually and overall screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire and oil resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ω/km)
4524024	2x2x0.75	13.1	17.0	395	136	0.091	0.7298	26.3
4524025	2x2x1	14.0	17.9	440	143	0.103	0.6887	19.3
4524026	2x2x1.5	15.2	19.1	500	153	0.101	0.6945	12.9
4524027	2x2x2.5	16.7	20.8	600	166	0.119	0.6451	8.02
4524034	3x2x0.75	14.0	17.9	455	143	0.091	0.7298	26.3
4524035	3x2x1	14.9	18.8	515	150	0.103	0.6887	19.3
4524036	3x2x1.5	16.2	20.3	595	162	0.101	0.6945	12.9
4524037	3x2x2.5	17.8	21.9	715	175	0.119	0.6451	8.02
4524044	4x2x0.75	15.4	19.3	530	154	0.091	0.7298	26.3
4524045	4x2x1	16.4	20.5	615	164	0.103	0.6887	19.3
4524046	4x2x1.5	17.9	22.0	700	176	0.101	0.6945	12.9
4524047	4x2x2.5	19.7	24.0	865	192	0.119	0.6451	8.02
4524074	7x2x0.75	18.5	22.6	740	181	0.091	0.7298	26.3
4524075	7x2x1	19.8	24.1	865	193	0.103	0.6887	19.3
4524076	7x2x1.5	21.6	26.1	1,020	209	0.101	0.6945	12.9
4524077	7x2x2.5	23.9	28.6	1,270	229	0.119	0.6451	8.02
4524084	8x2x0.75	20.3	24.6	845	197	0.091	0.7298	26.3
4524085	8x2x1	21.7	26.2	990	210	0.103	0.6887	19.3
4524086	8x2x1.5	23.8	28.5	1,165	228	0.101	0.6945	12.9
4524087	8x2x2.5	26.3	31.2	1,455	250	0.119	0.6451	8.02
4524124	12x2x0.75	24.7	29.4	1,170	235	0.091	0.7298	26.3
4524125	12x2x1	26.5	31.2	1,355	250	0.103	0.6887	19.3
4524126	12x2x1.5	29.1	34.0	1,605	272	0.101	0.6945	12.9
4524127	12x2x2.5	32.6	37.9	2,080	303	0.119	0.6451	8.02
4524164	16x2x0.75	27.8	32.7	1,445	262	0.091	0.7298	26.3
4524165	16x2x1	29.8	34.7	1,685	278	0.103	0.6887	19.3
4524166	16x2x1.5	33.1	38.4	2,055	307	0.101	0.6945	12.9
4524167	16x2x2.5	36.6	42.5	2,700	340	0.119	0.6451	8.02
4524194	19x2x0.75	29.5	34.4	1,620	275	0.091	0.7298	26.3
4524195	19x2x1	31.6	36.7	1,915	294	0.103	0.6887	19.3
4524196	19x2x1.5	35.2	40.5	2,320	324	0.101	0.6945	12.9
4524197	19x2x2.5	38.9	45.0	3,075	360	0.119	0.6451	8.02
4524244	24x2x0.75	35.1	40.4	2,095	323	0.091	0.7298	26.3
4524245	24x2x1	37.6	42.9	2,450	343	0.103	0.6887	19.3
4524246	24x2x1.5	41.4	47.7	3,075	382	0.101	0.6945	12.9
4524247	24x2x2.5	46.2	52.8	3,945	422	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4524274	27x2x0.75	36.0	41.3	2,240	330	0.091	0.7298	26.3
4524275	27x2x1	38.5	44.4	2,760	355	0.103	0.6887	19.3
4524276	27x2x1.5	42.4	48.7	3,300	390	0.101	0.6945	12.9
4524277	27x2x2.5	47.4	54.1	4,275	433	0.119	0.6451	8.02
4524324	32x2x0.75	39.0	45.1	2,710	361	0.091	0.7298	26.3
4524325	32x2x1	41.8	47.9	3,175	383	0.103	0.6887	19.3
4524326	32x2x1.5	46.4	52.9	3,860	423	0.101	0.6945	12.9
4524327	32x2x2.5	51.4	58.3	4,940	466	0.119	0.6451	8.02
4524374	37x2x0.75	40.5	46.6	2,970	373	0.091	0.7298	26.3
4524375	37x2x1	43.4	49.7	3,520	398	0.103	0.6887	19.3
4524376	37x2x1.5	48.2	54.9	4,280	439	0.101	0.6945	12.9
4524377	37x2x2.5	53.4	60.5	5,500	484	0.119	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4525024	2x3x0.75	14.6	18.5	465	148	0.091	0.7298	26.3
4525025	2x3x1	15.6	19.5	515	156	0.103	0.6887	19.3
4525026	2x3x1.5	17.0	21.1	605	169	0.101	0.6945	12.9
4525027	2x3x2.5	18.7	23.0	730	184	0.119	0.6451	8.02
4525034	3x3x0.75	15.6	19.5	540	156	0.091	0.7298	26.3
4525035	3x3x1	16.6	20.7	620	166	0.103	0.6887	19.3
4525036	3x3x1.5	18.2	22.5	730	180	0.101	0.6945	12.9
4525037	3x3x2.5	20.0	24.3	885	194	0.119	0.6451	8.02
4525044	4x3x0.75	17.1	21.2	645	170	0.091	0.7298	26.3
4525045	4x3x1	18.2	22.4	730	179	0.103	0.6887	19.3
4525046	4x3x1.5	20.0	24.3	865	194	0.101	0.6945	12.9
4525047	4x3x2.5	22.0	26.5	1,075	212	0.119	0.6451	8.02
4525074	7x3x0.75	20.7	25.0	920	200	0.091	0.7298	26.3
4525075	7x3x1	22.1	26.4	1,050	211	0.103	0.6887	19.3
4525076	7x3x1.5	24.3	29.0	1,275	232	0.101	0.6945	12.9
4525077	7x3x2.5	26.8	31.7	1,605	254	0.119	0.6451	8.02
4525084	8x3x0.75	22.8	27.3	1,050	218	0.091	0.7298	26.3
4525085	8x3x1	24.4	28.9	1,200	231	0.103	0.6887	19.3
4525086	8x3x1.5	26.7	31.7	1,460	254	0.101	0.6945	12.9
4525087	8x3x2.5	30.0	35.1	1,875	281	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1),2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ωhm/km)
4525087	8x3x2.5	30.0	35.1	1,875	281	0.119	0.6451	8.02
4525124	12x3x0.75	27.8	32.7	1,465	262	0.091	0.7298	26.3
4525125	12x3x1	29.8	34.7	1,680	278	0.103	0.6887	19.3
4525126	12x3x1.5	33.2	38.5	2,095	308	0.101	0.6945	12.9
4525127	12x3x2.5	36.7	42.6	2,745	341	0.119	0.6451	8.02
4525164	16x3x0.75	31.7	36.8	1,855	294	0.091	0.7298	26.3
4525165	16x3x1	34.0	39.1	2,140	313	0.103	0.6887	19.3
4525166	16x3x1.5	37.3	43.2	2,715	346	0.101	0.6945	12.9
4525167	16x3x2.5	41.3	47.6	3,465	381	0.119	0.6451	8.02
4525194	19x3x0.75	33.6	38.7	2,085	310	0.091	0.7298	26.3
4525195	19x3x1	36.0	41.3	2,435	330	0.103	0.6887	19.3
4525196	19x3x1.5	39.6	45.7	3,090	366	0.101	0.6945	12.9
4525197	19x3x2.5	44.3	50.8	4,005	406	0.119	0.6451	8.02
4525244	24x3x0.75	39.5	45.6	2,775	365	0.091	0.7298	26.3
4525245	24x3x1	42.4	48.5	3,200	388	0.103	0.6887	19.3
4525246	24x3x1.5	47.1	53.8	3,990	430	0.101	0.6945	12.9
4525247	24x3x2.5	52.1	59.2	5,100	474	0.119	0.6451	8.02
4525324	32x3x0.75	44.3	50.7	3,480	406	0.091	0.7298	26.3
4525325	32x3x1	47.6	54.1	4,055	433	0.103	0.6887	19.3
4525326	32x3x1.5	52.4	59.5	5,000	476	0.101	0.6945	12.9
4525327	32x3x2.5	58.5	66.0	6,490	528	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S3/S7 BFOU (i) Fire & Mud Resistant Armoured Individually Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured, individually screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, fire, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -20 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4277014	1x2x0,75	8,3	11,5	230	92	0,080	0,7751	26,3
4277015	1x2x1	9,1	12,4	265	99	0,085	0,7550	19,3
4277016	1x2x1,5	9,4	12,6	285	101	0,090	0,7324	12,9
4277017	1x2x2,5	10,2	13,6	335	109	0,106	0,6791	8,02
4277024	2x2x0,75	13,3	17,4	485	139	0,080	0,7751	26,3
4277025	2x2x1	14,8	19,0	500	152	0,085	0,7550	19,3
4277026	2x2x1,5	14,6	18,6	570	149	0,096	0,7091	12,9
4277027	2x2x2,5	16,7	21,1	725	169	0,106	0,6791	8,02
4277034	3x2x0,75	14,9	19,1	595	153	0,075	0,8011	26,3
4277035	3x2x1	14,9	19,7	570	158	0,090	0,7308	19,3
4277036	3x2x1,5	16,2	21,1	665	169	0,090	0,7324	12,9
4277037	3x2x2,5	17,7	22,1	770	177	0,106	0,6791	8,02
4277044	4x2x0,75	15,5	19,7	595	158	0,080	0,7751	26,3
4277045	4x2x1	17,3	21,7	710	174	0,085	0,7550	19,3
4277046	4x2x1,5	17,0	21,2	725	170	0,096	0,7091	12,9
4277047	4x2x2,5	19,5	24,1	930	193	0,106	0,6791	8,02
4277074	7x2x0,75	19,6	24,0	895	192	0,075	0,8011	26,3
4277075	7x2x1	18,7	23,1	905	185	0,097	0,7050	19,3
4277076	7x2x1,5	20,4	25,0	1.060	200	0,096	0,7091	12,9
4277077	7x2x2,5	23,5	28,5	1.380	228	0,106	0,6791	8,02
4277084	8x2x0,75	20,4	25,0	950	200	0,080	0,7751	26,3
4277085	8x2x1	22,8	27,6	1.165	221	0,085	0,7550	19,3
4277086	8x2x1,5	23,6	28,6	1.295	229	0,090	0,7324	12,9
4277087	8x2x2,5	25,9	31,1	1.580	249	0,106	0,6791	8,02
4277124	12x2x0,75	24,8	29,8	1.335	238	0,080	0,7751	26,3
4277125	12x2x1	27,8	32,8	1.605	262	0,085	0,7550	19,3
4277126	12x2x1,5	27,3	32,5	1.690	260	0,096	0,7091	12,9
4277127	12x2x2,5	32,0	37,6	2.265	301	0,106	0,6791	8,02
4277164	16x2x0,75	27,7	32,9	1.650	263	0,080	0,7751	26,3
4277165	16x2x1	31,1	36,3	1.975	290	0,085	0,7550	19,3
4277166	16x2x1,5	31,0	36,6	2.165	293	0,096	0,7091	12,9
4277167	16x2x2,5	35,8	42,0	2.915	336	0,106	0,6791	8,02
4277194	19x2x0,75	33,8	39,2	2.265	314	0,070	0,8348	26,3
4277195	19x2x1	29,5	34,9	2.020	279	0,097	0,7050	19,3
4277196	19x2x1,5	32,7	38,3	2.440	306	0,096	0,7091	12,9
4277197	19x2x2,5	36,1	42,5	3.205	340	0,114	0,6582	8,02
4277244	24x2x0,75	36,9	42,5	2.555	340	0,075	0,8011	26,3
4277245	24x2x1	39,1	44,7	2.875	358	0,085	0,7550	19,3
4277246	24x2x1,5	38,4	45,0	3.215	360	0,096	0,7091	12,9
4277247	24x2x2,5	44,8	51,6	4.275	413	0,106	0,6791	8,02
4277274	27x2x0,75	40,6	47,6	3.210	381	0,070	0,8348	26,3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1) 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4277275	27x2x1	37,9	44,8	3.100	358	0,090	0,7308	19,3
4277276	27x2x1,5	39,2	46,6	3.510	373	0,096	0,7091	12,9
4277277	27x2x2,5	43,7	51,5	4.510	412	0,114	0,6582	8,02
4277324	32x2x0,75	40,7	47,1	3.295	377	0,075	0,8011	26,3
4277325	32x2x1	43,2	49,8	3.740	398	0,085	0,7550	19,3
4277326	32x2x1,5	45,1	52,2	4.340	418	0,090	0,7324	12,9
4277327	32x2x2,5	49,5	57,5	5.410	460	0,106	0,6791	8,02
4277374	37x2x0,75	45,5	52,3	4.005	418	0,070	0,8348	26,3
4277375	37x2x1	42,5	49,1	3.870	393	0,090	0,7308	19,3
4277376	37x2x1,5	46,8	54,1	4.760	433	0,090	0,7324	12,9
4277377	37x2x2,5	51,4	59,5	5.985	476	0,106	0,6791	8,02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1) 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4287014	1x3x0,75	8,8	12,0	250	96	0,080	0,7751	26,3
4287015	1x3x1	9,7	12,9	290	103	0,085	0,7550	19,3
4287016	1x3x1,5	10,0	13,2	310	106	0,090	0,7324	12,9
4287017	1x3x2,5	10,8	14,2	375	114	0,106	0,6791	8,02
4287024	2x3x0,75	15,7	19,9	620	159	0,075	0,8011	26,3
4287025	2x3x1	16,6	20,8	685	166	0,085	0,7550	19,3
4287026	2x3x1,5	17,1	21,7	765	174	0,090	0,7324	12,9
4287027	2x3x2,5	18,7	23,3	905	186	0,106	0,6791	8,02
4287034	3x3x0,75	17,8	22,6	710	181	0,070	0,8348	26,3
4287035	3x3x1	16,7	21,1	690	169	0,090	0,7308	19,3
4287036	3x3x1,5	17,3	21,9	765	175	0,096	0,7091	12,9
4287037	3x3x2,5	19,0	23,6	920	189	0,114	0,6582	8,02
4287044	4x3x0,75	18,3	23,1	805	185	0,075	0,8011	26,3
4287045	4x3x1	19,3	23,9	880	191	0,085	0,7550	19,3
4287046	4x3x1,5	20,0	24,6	960	197	0,090	0,7324	12,9
4287047	4x3x2,5	20,9	25,7	1.125	206	0,114	0,6582	8,02
4287074	7x3x0,75	22,5	27,1	1.160	217	0,074	0,8110	26,3
4287075	7x3x1	21,0	25,6	1.115	205	0,097	0,7050	19,3
4287076	7x3x1,5	24,1	29,1	1.420	233	0,090	0,7324	12,9
4287077	7x3x2,5	25,2	30,5	1.690	244	0,114	0,6582	8,02
4287084	8x3x0,75	22,9	27,7	1.195	222	0,080	0,7751	26,3
4287085	8x3x1	25,7	30,5	1.450	244	0,085	0,7550	19,3
4287086	8x3x1,5	26,6	32,0	1.650	256	0,090	0,7324	12,9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ωhm/km)
4287087	8x3x2,5	29,6	35,0	2.070	280	0,106	0,6791	8,02
4287124	12x3x0,75	29,5	35,1	1.830	281	0,075	0,8011	26,3
4287125	12x3x1	31,3	36,9	2.120	295	0,085	0,7550	19,3
4287126	12x3x1,5	32,8	39,0	2.450	312	0,090	0,7324	12,9
4287127	12x3x2,5	34,4	40,6	2.885	325	0,114	0,6582	8,02
4287164	16x3x0,75	33,1	38,5	2.205	308	0,075	0,8011	26,3
4287165	16x3x1	35,5	41,1	2.615	329	0,085	0,7550	19,3
4287166	16x3x1,5	36,7	42,9	3.020	343	0,090	0,7324	12,9
4287167	16x3x2,5	38,5	45,1	3.640	361	0,114	0,6582	8,02
4287194	19x3x0,75	38,1	44,1	2.940	353	0,070	0,8348	26,3
4287195	19x3x1	35,5	41,5	2.865	332	0,090	0,7308	19,3
4287196	19x3x1,5	36,8	43,2	3.275	346	0,096	0,7091	12,9
4287197	19x3x2,5	41,1	47,9	4.210	383	0,114	0,6582	8,02
4287244	24x3x0,75	41,6	48,0	3.380	384	0,075	0,8011	26,3
4287245	24x3x1	44,1	50,5	3.815	404	0,085	0,7550	19,3
4287246	24x3x1,5	46,0	53,1	4.445	425	0,090	0,7324	12,9
4287247	24x3x2,5	48,3	56,0	5.385	448	0,114	0,6582	8,02
4287324	32x3x0,75	49,9	57,3	4.740	458	0,070	0,8348	26,3
4287325	32x3x1	46,5	53,7	4.615	430	0,090	0,7308	19,3
4287326	32x3x1,5	48,2	56,0	5.320	448	0,096	0,7091	12,9
4287327	32x3x2,5	53,7	62,2	6.875	498	0,114	0,6582	8,02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S4/S8 BFOU (c) Fire & Mud Resistant Armoured Overall
Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. INNER COVERING:

Halogen-free compound.

6. ARMOUR:

Tinned copper wire braid.

7. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Armoured, overall screened pairs/triples cables for installation in offshore applications with special performances on flame spread and low emission of smoke and fumes.

Halogen-free, fire, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -20 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4278014	1x2x0.75	8.7	11.9	245	95	0.075	0.8011	26.3
4278015	1x2x1	9.1	12.4	265	99	0.085	0.7550	19.3
4278016	1x2x1.5	9.4	12.6	285	101	0.090	0.7324	12.9
4278017	1x2x2.5	10.2	13.6	335	109	0.106	0.6791	8.02
4278024	2x2x0.75	10.0	13.3	295	106	0.057	0.8011	26.3
4278025	2x2x1	10.6	13.8	325	110	0.062	0.7550	19.3
4278026	2x2x1.5	10.9	14.3	360	114	0.065	0.7324	12.9
4278027	2x2x2.5	11.8	15.3	425	122	0.073	0.6791	8.02
4278034	3x2x0.75	14.5	19.3	530	154	0.054	0.8348	26.3
4278035	3x2x1	13.6	18.4	505	147	0.063	0.7308	19.3
4278036	3x2x1.5	14.7	19.0	570	152	0.063	0.7324	12.9
4278037	3x2x2.5	16.3	20.7	675	166	0.069	0.6791	8.02
4278044	4x2x0.75	14.8	19.0	555	152	0.057	0.8011	26.3
4278045	4x2x1	15.7	19.9	615	159	0.061	0.7550	19.3
4278046	4x2x1.5	16.2	20.6	680	165	0.063	0.7324	12.9
4278047	4x2x2.5	17.7	22.3	825	178	0.069	0.6791	8.02
4278074	7x2x0.75	20.6	25.0	890	200	0.054	0.8348	26.3
4278075	7x2x1	18.8	23.8	850	190	0.063	0.7308	19.3
4278076	7x2x1.5	20.5	25.1	995	201	0.063	0.7324	12.9
4278077	7x2x2.5	22.7	27.5	1,240	220	0.069	0.6791	8.02
4278084	8x2x0.75	18.7	23.3	850	186	0.057	0.8011	26.3
4278085	8x2x1	19.8	24.4	950	195	0.061	0.7550	19.3
4278086	8x2x1.5	20.5	25.3	1,060	202	0.063	0.7324	12.9
4278087	8x2x2.5	22.5	27.5	1,320	220	0.069	0.6791	8.02
4278124	12x2x0.75	23.2	28.0	1,170	224	0.057	0.8011	26.3
4278125	12x2x1	23.6	28.4	1,235	227	0.063	0.7308	19.3
4278126	12x2x1.5	25.5	30.7	1,495	246	0.063	0.7324	12.9
4278127	12x2x2.5	28.1	33.5	1,870	268	0.069	0.6791	8.02
4278164	16x2x0.75	24.4	29.4	1,380	235	0.057	0.8011	26.3
4278165	16x2x1	26.0	31.0	1,560	248	0.061	0.7550	19.3
4278166	16x2x1.5	26.9	32.3	1,780	258	0.063	0.7324	12.9
4278167	16x2x2.5	30.0	35.6	2,285	285	0.069	0.6791	8.02
4278194	19x2x0.75	28.3	33.3	1,645	266	0.057	0.8011	26.3
4278195	19x2x1	28.5	33.7	1,750	270	0.063	0.7308	19.3
4278196	19x2x1.5	31.6	37.0	2,165	296	0.063	0.7324	12.9
4278197	19x2x2.5	33.1	39.3	2,725	314	0.072	0.6582	8.02
4278244	24x2x0.75	31.9	37.3	2,035	298	0.057	0.8011	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4278245	24x2x1	33.9	39.5	2,330	316	0.061	0.7550	19.3
4278246	24x2x1.5	35.5	42.0	2,795	336	0.063	0.7324	12.9
4278247	24x2x2.5	39.0	45.6	3,520	365	0.069	0.6791	8.02
4278274	27x2x0.75	35.8	41.8	2,555	334	0.054	0.8348	26.3
4278275	27x2x1	33.3	39.3	2,445	314	0.063	0.7308	19.3
4278276	27x2x1.5	34.6	41.0	2,835	328	0.066	0.7091	12.9
4278277	27x2x2.5	38.7	45.5	3,690	364	0.072	0.6582	8.02
4278324	32x2x0.75	34.3	40.5	2,585	324	0.057	0.8011	26.3
4278325	32x2x1	36.5	42.9	2,950	343	0.061	0.7550	19.3
4278326	32x2x1.5	38.2	45.0	3,430	360	0.063	0.7324	12.9
4278327	32x2x2.5	42.1	49.1	4,340	393	0.069	0.6791	8.02
4278374	37x2x0.75	39.5	45.7	3,175	366	0.054	0.8348	26.3
4278375	37x2x1	36.8	43.2	3,070	346	0.063	0.7308	19.3
4278376	37x2x1.5	40.7	47.5	3,835	380	0.063	0.7324	12.9
4278377	37x2x2.5	44.8	52.4	4,930	419	0.069	0.6791	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4288014	1x3x0.75	9.1	12.3	260	98	0.075	0.8011	26.3
4288015	1x3x1	9.6	12.8	285	102	0.085	0.7550	19.3
4288016	1x3x1.5	10.0	13.2	310	106	0.090	0.7324	12.9
4288017	1x3x2.5	10.8	14.2	375	114	0.106	0.6791	8.02
4288024	2x3x0.75	13.1	17.2	505	138	0.057	0.8011	26.3
4288025	2x3x1	13.2	18.0	535	144	0.063	0.7308	19.3
4288026	2x3x1.5	14.3	18.7	620	150	0.063	0.7324	12.9
4288027	2x3x2.5	15.6	20.6	680	165	0.069	0.6791	8.02
4288034	3x3x0.75	15.6	20.3	615	162	0.054	0.8348	26.3
4288035	3x3x1	14.6	19.3	590	154	0.063	0.7308	19.3
4288036	3x3x1.5	15.1	20.0	660	160	0.066	0.7091	12.9
4288037	3x3x2.5	16.6	21.2	810	170	0.072	0.6582	8.02
4288044	4x3x0.75	15.9	20.3	670	162	0.057	0.8011	26.3
4288045	4x3x1	16.0	20.4	700	163	0.063	0.7308	19.3
4288046	4x3x1.5	17.4	22.0	835	176	0.063	0.7324	12.9
4288047	4x3x2.5	19.0	23.7	1,015	190	0.069	0.6791	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4288074	7x3x0.75	21.8	26.4	1,085	211	0.054	0.8348	26.3
4288075	7x3x1	20.3	24.9	1,035	199	0.063	0.7308	19.3
4288076	7x3x1.5	22.2	27.0	1,250	216	0.063	0.7324	12.9
4288077	7x3x2.5	23.2	28.2	1,500	226	0.072	0.6582	8.02
4288084	8x3x0.75	20.2	25.0	1,055	200	0.057	0.8011	26.3
4288085	8x3x1	21.3	26.1	1,140	209	0.063	0.7308	19.3
4288086	8x3x1.5	22.0	27.0	1,315	216	0.066	0.7091	12.9
4288087	8x3x2.5	24.3	29.5	1,695	236	0.069	0.6791	8.02
4288124	12x3x0.75	25.1	30.1	1,465	241	0.057	0.8011	26.3
4288125	12x3x1	26.6	31.6	1,660	253	0.061	0.7550	19.3
4288126	12x3x1.5	27.6	33.0	1,900	264	0.063	0.7324	12.9
4288127	12x3x2.5	29.3	34.9	2,355	279	0.072	0.6582	8.02
4288164	16x3x0.75	26.4	31.6	1,745	253	0.057	0.8011	26.3
4288165	16x3x1	26.6	31.8	1,855	254	0.063	0.7308	19.3
4288166	16x3x1.5	29.4	35.0	2,335	280	0.063	0.7324	12.9
4288167	16x3x2.5	32.4	38.8	3,115	310	0.069	0.6791	8.02
4288194	19x3x0.75	30.7	36.1	2,110	289	0.057	0.8011	26.3
4288195	19x3x1	31.2	36.6	2,280	293	0.063	0.7308	19.3
4288196	19x3x1.5	32.4	38.6	2,765	309	0.066	0.7091	12.9
4288197	19x3x2.5	35.9	42.5	3,570	340	0.072	0.6582	8.02
4288244	24x3x0.75	34.5	40.3	2,625	322	0.057	0.8011	26.3
4288245	24x3x1	36.0	42.2	2,945	338	0.063	0.7308	19.3
4288246	24x3x1.5	37.8	44.6	3,520	357	0.066	0.7091	12.9
4288247	24x3x2.5	41.8	49.0	4,540	392	0.072	0.6582	8.02
4288324	32x3x0.75	38.7	45.1	3,575	361	0.054	0.8348	26.3
4288325	32x3x1	36.0	42.6	3,465	341	0.063	0.7308	19.3
4288326	32x3x1.5	37.8	44.8	4,145	358	0.066	0.7091	12.9
4288327	32x3x2.5	42.2	49.6	5,470	397	0.072	0.6582	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S13 BU (i) Fire & Mud Resistant Non Armoured Individually Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).
NEK TS 606.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in off-shore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4319014	1x2x0.75	8.5	115	68	0.078	0.7857	26.3
4319015	1x2x1	8.9	135	71	0.088	0.7406	19.3
4319016	1x2x1.5	9.4	150	75	0.094	0.7186	12.9
4319017	1x2x2.5	10.1	190	81	0.110	0.6667	8.02
4319024	2x2x0.75	10.0	155	80	0.058	0.7857	26.3
4319025	2x2x1	10.3	180	82	0.064	0.7406	19.3
4319026	2x2x1.5	10.8	200	86	0.067	0.7186	12.9
4319027	2x2x2.5	11.7	255	94	0.075	0.6667	8.02
4319034	3x2x0.75	14.8	295	118	0.078	0.7857	26.3
4319035	3x2x1	15.6	340	125	0.088	0.7406	19.3
4319036	3x2x1.5	16.3	385	130	0.094	0.7186	12.9
4319037	3x2x2.5	18.0	495	144	0.110	0.6667	8.02
4319044	4x2x0.75	16.2	365	130	0.078	0.7857	26.3
4319045	4x2x1	17.4	430	139	0.088	0.7406	19.3
4319046	4x2x1.5	18.1	490	145	0.094	0.7186	12.9
4319047	4x2x2.5	19.8	620	158	0.110	0.6667	8.02
4319074	7x2x0.75	19.8	590	158	0.078	0.7857	26.3
4319075	7x2x1	20.9	680	167	0.088	0.7406	19.3
4319076	7x2x1.5	21.8	775	174	0.094	0.7186	12.9
4319077	7x2x2.5	24.1	1,005	193	0.110	0.6667	8.02
4319084	8x2x0.75	21.7	675	174	0.078	0.7857	26.3
4319085	8x2x1	23.1	795	185	0.088	0.7406	19.3
4319086	8x2x1.5	24.1	905	193	0.094	0.7186	12.9
4319087	8x2x2.5	26.6	1,170	213	0.110	0.6667	8.02
4319124	12x2x0.75	26.6	1,000	213	0.078	0.7857	26.3
4319125	12x2x1	28.2	1,155	226	0.088	0.7406	19.3
4319126	12x2x1.5	29.3	1,315	234	0.094	0.7186	12.9
4319127	12x2x2.5	32.5	1,725	260	0.110	0.6667	8.02
4319164	16x2x0.75	29.8	1,285	238	0.078	0.7857	26.3
4319165	16x2x1	31.6	1,490	253	0.088	0.7406	19.3
4319166	16x2x1.5	33.0	1,715	264	0.094	0.7186	12.9
4319167	16x2x2.5	36.4	2,230	291	0.110	0.6667	8.02
4319194	19x2x0.75	31.4	1,475	251	0.078	0.7857	26.3
4319195	19x2x1	33.5	1,730	268	0.088	0.7406	19.3
4319196	19x2x1.5	34.8	1,970	278	0.094	0.7186	12.9
4319197	19x2x2.5	38.6	2,590	309	0.110	0.6667	8.02
4319244	24x2x0.75	37.0	1,920	296	0.078	0.7857	26.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4319245	24x2x1	39.5	2.255	316	0.088	0.7406	19.3
4319246	24x2x1.5	41.2	2.585	330	0.094	0.7186	12.9
4319247	24x2x2.5	45.4	3.350	363	0.110	0.6667	8.02
4319274	27x2x0.75	37.8	2.085	302	0.078	0.7857	26.3
4319275	27x2x1	40.3	2.450	322	0.088	0.7406	19.3
4319276	27x2x1.5	42.1	2.815	337	0.094	0.7186	12.9
4319277	27x2x2.5	46.6	3.690	373	0.110	0.6667	8.02
4319324	32x2x0.75	40.9	2.450	327	0.078	0.7857	26.3
4319325	32x2x1	43.6	2.880	349	0.088	0.7406	19.3
4319326	32x2x1.5	45.5	3.305	364	0.094	0.7186	12.9
4319327	32x2x2.5	50.3	4.330	402	0.110	0.6667	8.02
4319374	37x2x0.75	42.6	2.765	341	0.078	0.7857	26.3
4319375	37x2x1	45.2	3.225	362	0.088	0.7406	19.3
4319376	37x2x1.5	47.3	3.730	378	0.094	0.7186	12.9
4319377	37x2x2.5	52.4	4.895	419	0.110	0.6667	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4320014	1x3x0.75	8.5	120	68	0.084	0.7587	26.3
4320015	1x3x1	9.0	140	72	0.094	0.7155	19.3
4320016	1x3x1.5	9.5	165	76	0.101	0.6945	12.9
4320017	1x3x2.5	10.3	210	82	0.119	0.6451	8.02
4320024	2x3x0.75	14.8	280	118	0.084	0.7587	26.3
4320025	2x3x1	15.7	320	126	0.094	0.7155	19.3
4320026	2x3x1.5	16.4	375	131	0.101	0.6945	12.9
4320027	2x3x2.5	18.2	485	146	0.119	0.6451	8.02
4320034	3x3x0.75	15.8	355	126	0.084	0.7587	26.3
4320035	3x3x1	16.8	415	134	0.094	0.7155	19.3
4320036	3x3x1.5	17.5	485	140	0.101	0.6945	12.9
4320037	3x3x2.5	19.2	615	154	0.119	0.6451	8.02
4320044	4x3x0.75	17.3	445	138	0.084	0.7587	26.3
4320045	4x3x1	18.4	515	147	0.094	0.7155	19.3
4320046	4x3x1.5	19.2	605	154	0.101	0.6945	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4320047	4x3x2.5	21.3	790	170	0.119	0.6451	8.02
4320074	7x3x0.75	20.9	700	167	0.084	0.7587	26.3
4320075	7x3x1	22.4	830	179	0.094	0.7155	19.3
4320076	7x3x1.5	23.4	980	187	0.101	0.6945	12.9
4320077	7x3x2.5	25.9	1.285	207	0.119	0.6451	8.02
4320084	8x3x0.75	23.1	815	185	0.084	0.7587	26.3
4320085	8x3x1	24.8	970	198	0.094	0.7155	19.3
4320086	8x3x1.5	25.9	1.140	207	0.101	0.6945	12.9
4320087	8x3x2.5	28.6	1.490	229	0.119	0.6451	8.02
4320124	12x3x0.75	28.3	1.205	226	0.084	0.7587	26.3
4320125	12x3x1	30.1	1.410	241	0.094	0.7155	19.3
4320126	12x3x1.5	31.6	1.685	253	0.101	0.6945	12.9
4320127	12x3x2.5	35.0	2.205	280	0.119	0.6451	8.02
4320164	16x3x0.75	31.7	1.555	254	0.084	0.7587	26.3
4320165	16x3x1	33.7	1.825	270	0.094	0.7155	19.3
4320166	16x3x1.5	35.3	2.175	282	0.101	0.6945	12.9
4320167	16x3x2.5	39.4	2.880	315	0.119	0.6451	8.02
4320194	19x3x0.75	33.6	1.805	269	0.084	0.7587	26.3
4320195	19x3x1	35.8	2.120	286	0.094	0.7155	19.3
4320196	19x3x1.5	37.4	2.530	299	0.101	0.6945	12.9
4320197	19x3x2.5	41.7	3.350	334	0.119	0.6451	8.02
4320244	24x3x0.75	39.6	2.345	317	0.084	0.7587	26.3
4320245	24x3x1	42.2	2.750	338	0.094	0.7155	19.3
4320246	24x3x1.5	44.3	3.295	354	0.101	0.6945	12.9
4320247	24x3x2.5	49.3	4.350	394	0.119	0.6451	8.02
4320324	32x3x0.75	43.7	2.995	350	0.084	0.7587	26.3
4320325	32x3x1	46.8	3.555	374	0.094	0.7155	19.3
4320326	32x3x1.5	48.9	4.225	391	0.101	0.6945	12.9
4320327	32x3x2.5	54.5	5.620	436	0.119	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

S14 BU (c) Fire & Mud Resistant Non Armoured Overall
Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-360 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. OVERALL SCREEN:

Copper polyester tape with drain wire.

5. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).
NEK TS 606.

APPLICATIONS:

Unarmoured, individually screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1/2)} (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4328014	1x2x0.75	8.5	115	68	0.078	0.7857	26.3
4328015	1x2x1	8.9	135	71	0.088	0.7406	19.3
4328016	1x2x1.5	9.4	150	75	0.094	0.7186	12.9
4328017	1x2x2.5	10.1	190	81	0.110	0.6667	8.02
4328024	2x2x0.75	10.0	155	80	0.058	0.7857	26.3
4328025	2x2x1	10.5	180	84	0.064	0.7406	19.3
4328026	2x2x1.5	10.8	200	86	0.067	0.7186	12.9
4328027	2x2x2.5	11.7	255	94	0.075	0.6667	8.02
4328034	3x2x0.75	13.5	255	108	0.058	0.7857	26.3
4328035	3x2x1	14.2	290	114	0.062	0.7406	19.3
4328036	3x2x1.5	14.9	335	119	0.065	0.7186	12.9
4328037	3x2x2.5	16.2	425	130	0.070	0.6667	8.02
4328044	4x2x0.75	14.7	310	118	0.058	0.7857	26.3
4328045	4x2x1	15.6	355	125	0.062	0.7406	19.3
4328046	4x2x1.5	16.3	410	130	0.065	0.7186	12.9
4328047	4x2x2.5	18.0	540	144	0.070	0.6667	8.02
4328074	7x2x0.75	18.6	495	149	0.058	0.7857	26.3
4328075	7x2x1	19.8	570	158	0.062	0.7406	19.3
4328076	7x2x1.5	20.6	660	165	0.065	0.7186	12.9
4328077	7x2x2.5	22.8	870	182	0.070	0.6667	8.02
4328084	8x2x0.75	18.8	540	150	0.058	0.7857	26.3
4328085	8x2x1	19.9	620	159	0.062	0.7406	19.3
4328086	8x2x1.5	20.8	725	166	0.065	0.7186	12.9
4328087	8x2x2.5	23.0	955	184	0.070	0.6667	8.02
4328124	12x2x0.75	23.4	790	187	0.058	0.7857	26.3
4328125	12x2x1	24.8	915	198	0.062	0.7406	19.3
4328126	12x2x1.5	26.1	1.080	209	0.065	0.7186	12.9
4328127	12x2x2.5	28.8	1.420	230	0.070	0.6667	8.02
4328164	16x2x0.75	24.8	970	198	0.058	0.7857	26.3
4328165	16x2x1	26.3	1.130	210	0.062	0.7406	19.3
4328166	16x2x1.5	27.6	1.335	221	0.065	0.7186	12.9
4328167	16x2x2.5	30.5	1.765	244	0.070	0.6667	8.02
4328194	19x2x0.75	28.7	1.195	230	0.058	0.7857	26.3
4328195	19x2x1	30.5	1.385	244	0.062	0.7406	19.3
4328196	19x2x1.5	31.7	1.615	254	0.065	0.7186	12.9
4328197	19x2x2.5	35.3	2.160	282	0.070	0.6667	8.02
4328244	24x2x0.75	31.9	1.480	255	0.058	0.7857	26.3
4328245	24x2x1	34.1	1.740	273	0.062	0.7406	19.3
4328246	24x2x1.5	35.7	2.045	286	0.065	0.7186	12.9
4328247	24x2x2.5	39.5	2.705	316	0.070	0.6667	8.02
4328274	27x2x0.75	33.1	1.625	265	0.058	0.7857	26.3
4328275	27x2x1	35.4	1.910	283	0.062	0.7406	19.3

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾⁽²⁾ (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4328276	27x2x1.5	37.1	2.250	297	0.065	0.7186	12.9
4328277	27x2x2.5	41.2	3.005	330	0.070	0.6667	8.02
4328324	32x2x0.75	34.5	1.855	276	0.058	0.7857	26.3
4328325	32x2x1	36.9	2.185	295	0.062	0.7406	19.3
4328326	32x2x1.5	38.6	2.575	309	0.065	0.7186	12.9
4328327	32x2x2.5	42.8	3.445	342	0.070	0.6667	8.02
4328374	37x2x0.75	36.8	2.125	294	0.058	0.7857	26.3
4328375	37x2x1	39.2	2.475	314	0.062	0.7406	19.3
4328376	37x2x1.5	41.2	2.950	330	0.065	0.7186	12.9
4328377	37x2x2.5	45.7	3.950	366	0.070	0.6667	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾⁽²⁾ (mm)	Mutual capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4330014	1x3x0.75	8.4	120	67	0.084	0.7587	26.3
4330015	1x3x1	8.9	140	71	0.094	0.7155	19.3
4330016	1x3x1.5	9.4	165	75	0.101	0.6945	12.9
4330017	1x3x2.5	10.2	205	82	0.119	0.6451	8.02
4330024	2x3x0.75	12.4	215	99	0.061	0.7587	26.3
4330025	2x3x1	13.2	245	106	0.065	0.7155	19.3
4330026	2x3x1.5	13.8	290	110	0.067	0.6945	12.9
4330027	2x3x2.5	15.1	375	121	0.073	0.6451	8.02
4330034	3x3x0.75	13.7	275	110	0.061	0.7587	26.3
4330035	3x3x1	14.5	320	116	0.065	0.7155	19.3
4330036	3x3x1.5	15.2	385	122	0.067	0.6945	12.9
4330037	3x3x2.5	16.9	510	135	0.073	0.6451	8.02
4330044	4x3x0.75	15.1	350	121	0.061	0.7587	26.3
4330045	4x3x1	16.1	405	129	0.065	0.7155	19.3
4330046	4x3x1.5	16.8	485	134	0.067	0.6945	12.9
4330047	4x3x2.5	18.7	650	150	0.073	0.6451	8.02
4330074	7x3x0.75	19.2	555	154	0.061	0.7587	26.3
4330075	7x3x1	20.4	655	163	0.065	0.7155	19.3
4330076	7x3x1.5	21.3	790	170	0.067	0.6945	12.9

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:**TRIPLES**

General Cable Code	Cross section (mm ²)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4330084	8x3x0.75	19.3	615	154	0.061	0.7587	26.3
4330085	8x3x1	20.6	720	165	0.065	0.7155	19.3
4330086	8x3x1.5	21.5	870	172	0.067	0.6945	12.9
4330087	8x3x2.5	23.9	1,175	191	0.073	0.6451	8.02
4330124	12x3x0.75	23.9	895	191	0.061	0.7587	26.3
4330125	12x3x1	25.5	1,055	204	0.065	0.7155	19.3
4330126	12x3x1.5	26.8	1,290	214	0.067	0.6945	12.9
4330127	12x3x2.5	29.8	1,740	238	0.073	0.6451	8.02
4330164	16x3x0.75	25.3	1,115	202	0.061	0.7587	26.3
4330165	16x3x1	27.0	1,320	216	0.065	0.7155	19.3
4330166	16x3x1.5	28.4	1,625	227	0.067	0.6945	12.9
4330167	16x3x2.5	31.7	2,225	254	0.073	0.6451	8.02
4330194	19x3x0.75	29.4	1,355	235	0.061	0.7587	26.3
4330195	19x3x1	31.3	1,605	250	0.065	0.7155	19.3
4330196	19x3x1.5	32.9	1,965	263	0.067	0.6945	12.9
4330197	19x3x2.5	36.8	2,685	294	0.073	0.6451	8.02
4330244	24x3x0.75	32.9	1,700	263	0.061	0.7587	26.3
4330245	24x3x1	35.1	2,010	281	0.065	0.7155	19.3
4330246	24x3x1.5	36.8	2,465	294	0.067	0.6945	12.9
4330247	24x3x2.5	41.0	3,365	328	0.073	0.6451	8.02
4330324	32x3x0.75	35.5	2,150	284	0.061	0.7587	26.3
4330325	32x3x1	38.0	2,575	304	0.065	0.7155	19.3
4330326	32x3x1.5	39.8	3,160	318	0.067	0.6945	12.9
4330327	32x3x2.5	44.5	4,330	356	0.073	0.6451	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

GENFIRE 606

GENFIRE® 606

BFOU (i) (c) Fire & Mud Resistant Armoured Individually and Overall Screened Instrumentation
150/250 V

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60331-21 / IEC 60331-1 and -2 / IEC 60332-1-2
IEC 60332-3-22 / IEC 60754-1 / IEC 60754-2
IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 to IEC 60228.

2. MICA TAPE

3. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

4. INDIVIDUAL SCREEN:

Copper polyester tape with drain wire.

5. OVERALL SCREEN:

Halogen-free compound.

6. INNER COVERING:

Halogen-free compound.

7. ARMOUR:

Copper wire braid.

8. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).
NEK TS 606.

APPLICATIONS:

Armoured, individually and overall screened pairs/triples cables for installation in offshore applications with special performances of non fire propagation and low emission of smoke and fumes.

Fire, oil and mud resistant.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾²⁾ (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4332024	2x2x0.75	14.3	18.3	540	146	0.075	0.8011	26.3
4332025	2x2x1	15.1	19.1	595	153	0.085	0.7550	19.3
4332026	2x2x1.5	15.5	19.6	635	157	0.090	0.7324	12.9
4332027	2x2x2.5	16.9	21.1	750	169	0.106	0.6791	8.02
4332034	3x2x0.75	15.1	19.9	635	159	0.075	0.8011	26.3
4332035	3x2x1	15.9	19.9	685	159	0.085	0.7550	19.3
4332036	3x2x1.5	16.4	20.4	740	163	0.090	0.7324	12.9
4332037	3x2x2.5	17.9	22.1	885	177	0.106	0.6791	8.02
4332044	4x2x0.75	16.6	21.3	745	170	0.075	0.8011	26.3
4332045	4x2x1	17.5	21.7	825	174	0.085	0.7550	19.3
4332046	4x2x1.5	18.1	22.3	890	178	0.090	0.7324	12.9
4332047	4x2x2.5	19.7	24.1	1,075	193	0.106	0.6791	8.02
4332074	7x2x0.75	19.9	24.8	1,055	198	0.075	0.8011	26.3
4332075	7x2x1	21.0	25.4	1,175	203	0.085	0.7550	19.3
4332076	7x2x1.5	21.7	26.3	1,300	210	0.090	0.7324	12.9
4332077	7x2x2.5	23.7	28.7	1,595	230	0.106	0.6791	8.02
4332084	8x2x0.75	21.8	27.0	1,215	216	0.075	0.8011	26.3
4332085	8x2x1	23.1	27.9	1,200	223	0.085	0.7550	19.3
4332086	8x2x1.5	23.8	28.8	1,505	230	0.090	0.7324	12.9
4332087	8x2x2.5	26.1	31.3	1,840	250	0.106	0.6791	8.02
4332124	12x2x0.75	26.5	31.5	1,685	252	0.075	0.8011	26.3
4332125	12x2x1	28.1	33.1	1,645	265	0.085	0.7550	19.3
4332126	12x2x1.5	29.0	34.2	2,105	274	0.090	0.7324	12.9
4332127	12x2x2.5	32.2	37.8	2,650	302	0.106	0.6791	8.02
4332164	16x2x0.75	29.6	34.8	2,085	278	0.075	0.8011	26.3
4332165	16x2x1	31.4	36.6	2,040	293	0.085	0.7550	19.3
4332166	16x2x1.5	32.8	38.4	2,690	307	0.090	0.7324	12.9
4332167	16x2x2.5	36.0	42.2	3,405	338	0.106	0.6791	8.02
4332194	19x2x0.75	31.3	36.5	2,340	292	0.075	0.8011	26.3
4332195	19x2x1	33.2	38.6	2,315	309	0.085	0.7550	19.3
4332196	19x2x1.5	34.7	40.3	3,025	322	0.090	0.7324	12.9
4332197	19x2x2.5	38.0	44.4	3,870	355	0.106	0.6791	8.02
4332244	24x2x0.75	37.1	42.7	3,055	342	0.075	0.8011	26.3
4332245	24x2x1	39.3	45.0	2,955	360	0.085	0.7550	19.3
4332246	24x2x1.5	40.7	47.3	4,020	378	0.090	0.7324	12.9
4332247	24x2x2.5	45.1	52.8	5,100	422	0.106	0.6791	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4332274	27x2x0.75	37.9	43.5	3,265	348	0.075	0.8011	26.3
4332275	27x2x1	40.2	46.4	3,305	371	0.085	0.7550	19.3
4332276	27x2x1.5	41.6	48.2	4,305	386	0.090	0.7324	12.9
4332277	27x2x2.5	46.1	53.8	5,465	430	0.106	0.6791	8.02
4332324	32x2x0.75	40.9	47.3	3,910	378	0.075	0.8011	26.3
4332325	32x2x1	43.4	49.8	3,805	398	0.085	0.7550	19.3
4332326	32x2x1.5	45.3	52.9	5,085	423	0.090	0.7324	12.9
4332327	32x2x2.5	49.7	57.7	6,315	462	0.106	0.6791	8.02
4332374	37x2x0.75	42.5	48.9	4,280	391	0.075	0.8011	26.3
4332375	37x2x1	45.1	51.7	4,220	414	0.085	0.7550	19.3
4332376	37x2x1.5	47.0	54.8	5,625	438	0.090	0.7324	12.9
4332377	37x2x2.5	51.6	59.8	7,000	478	0.106	0.6791	8.02
4514374	37x2x0.75	40.3	46.4	3,005	371	0.091	0.7298	26.3
4514375	37x2x1	43.2	49.5	3,460	396	0.103	0.6887	19.3
4514376	37x2x1.5	48.0	54.7	4,215	438	0.101	0.6945	12.9
4514377	37x2x2.5	53.2	60.3	5,425	482	0.119	0.6451	8.02

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1 2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (0hm/km)
4333024	2x3x0.75	17.1	21.8	630	174	0.070	0.8348	26.3
4333025	2x3x1	16.0	20.8	605	166	0.090	0.7308	19.3
4333026	2x3x1.5	16.5	21.5	665	172	0.096	0.7091	12.9
4333027	2x3x2.5	18.1	23.3	795	186	0.114	0.6582	8.02
4333034	3x3x0.75	18.1	22.8	740	182	0.070	0.8348	26.3
4333035	3x3x1	16.9	21.9	720	175	0.090	0.7308	19.3
4333036	3x3x1.5	17.5	22.7	800	182	0.096	0.7091	12.9
4333037	3x3x2.5	19.2	24.4	960	195	0.114	0.6582	8.02
4333044	4x3x0.75	19.9	24.8	885	198	0.070	0.8348	26.3
4333045	4x3x1	18.6	23.6	850	189	0.090	0.7308	19.3
4333046	4x3x1.5	19.2	24.4	955	195	0.096	0.7091	12.9
4333047	4x3x2.5	21.1	25.9	1,150	207	0.114	0.6582	8.02
4333074	7x3x0.75	23.9	28.5	1,250	228	0.070	0.8348	26.3
4333075	7x3x1	22.4	27.0	1,215	216	0.090	0.7308	19.3
4333076	7x3x1.5	23.2	28.2	1,385	226	0.096	0.7091	12.9
4333077	7x3x2.5	25.5	30.7	1,725	246	0.114	0.6582	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

PHYSICAL & ELECTRICAL CHARACTERISTICS:

TRIPLES

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ^{1,2)} (mm)	Mutual Capacitance (μF/km)	Mutual inductance (mH/km)	DC conductor resistance at 20 °C (Ohm/km)
4333084	8x3x0.75	26.4	31.2	1,435	250	0.070	0.8348	26.3
4333085	8x3x1	24.6	29.4	1,390	235	0.090	0.7308	19.3
4333086	8x3x1.5	25.5	30.7	1,585	246	0.096	0.7091	12.9
4333087	8x3x2.5	28.5	33.9	2,010	271	0.114	0.6582	8.02
4333124	12x3x0.75	32.1	37.3	2,005	298	0.070	0.8348	26.3
4333125	12x3x1	29.9	35.1	1,945	281	0.090	0.7308	19.3
4333126	12x3x1.5	31.4	37.0	2,265	296	0.096	0.7091	12.9
4333127	12x3x2.5	34.6	40.8	2,925	326	0.114	0.6582	8.02
4333164	16x3x0.75	35.9	41.3	2,495	330	0.070	0.8348	26.3
4333165	16x3x1	33.9	39.3	2,465	314	0.090	0.7308	19.3
4333166	16x3x1.5	35.1	41.3	2,920	330	0.096	0.7091	12.9
4333167	16x3x2.5	38.7	45.3	3,690	362	0.114	0.6582	8.02
4333194	19x3x0.75	38.3	43.7	2,855	350	0.070	0.8348	26.3
4333195	19x3x1	35.8	41.4	2,805	331	0.090	0.7308	19.3
4333196	19x3x1.5	37.1	43.5	3,320	348	0.096	0.7091	12.9
4333197	19x3x2.5	41.3	48.1	4,260	385	0.114	0.6582	8.02
4333244	24x3x0.75	45.1	51.8	3,810	414	0.070	0.8348	26.3
4333245	24x3x1	42.0	48.4	3,670	387	0.090	0.7308	19.3
4333246	24x3x1.5	43.9	51.0	4,280	408	0.096	0.7091	12.9
4333247	24x3x2.5	48.5	56.7	5,475	454	0.114	0.6582	8.02
4333324	32x3x0.75	50.2	57.5	4,800	460	0.070	0.8348	26.3
4333325	32x3x1	46.8	54.0	4,675	432	0.090	0.7308	19.3
4333326	32x3x1.5	48.9	57.0	5,475	456	0.096	0.7091	12.9
4333327	32x3x2.5	53.9	62.5	6,940	500	0.114	0.6582	8.02
4515324	32x3x0.75	49.4	55.7	3,920	446	0.079	0.7805	26.3
4515325	32x3x1	52.6	59.1	4,560	473	0.089	0.7357	19.3
4515326	32x3x1.5	43.3	50.4	4,665	403	0.089	0.7369	12.9
4515327	32x3x2.5	63.5	71.0	7,090	568	0.104	0.6832	8.02

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ During and after installation.

EXZHELLENT® 606

RFOU-VFD Variable Frequency Drives Mud Resistant
Armoured and Screened Power
0.6/1 kV - 1.8/3 kV

STANDARDS:

CONSTRUCTION: IEC 60092-353 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 flexible to IEC 60228.
Option in flexible class 5 available on request.

2. INSULATION:

Ethylene Propylene Rubber (EPR). IEC 60092-360.
Core identification: see page 21.

3. INNER COVERING:

Halogen-free compound.

4. SCREEN/ARMOUR:

Copper/polyester tape.
Tinned copper wire braid.
VFD compliant with IEEE 1580.

5. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud).NEK TS 606.
Option: SHF 2 available upon request.

APPLICATIONS:

Armoured cables for variable frequency drive systems with maximum degree of screening for both low and high frequencies. Combined shield coverage: 100 %.

Flexible conductor to improve handability in installation process.

Fire retardant. Halogen-free. Oil and Mud Resistant.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -20 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

0.6/1 kV

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7490012	3x25 / 3x6	23.2	28.1	1,815	170	110	1.39	1.62	0.734	0.938	0.295	0.093
7490013	3x35 / 3x6	24.2	29.1	2,075	175	137	1.03	1.17	0.529	0.675	0.284	0.089
7490014	3x50 / 3x10	28.2	33.4	2,745	205	167	0.780	0.864	0.391	0.499	0.273	0.086
7490015	3x70 / 3x16	31.9	37.2	3,640	225	214	0.562	0.596	0.270	0.345	0.259	0.081
7490016	3x95 / 3x16	36.2	42.3	4,935	255	259	0.428	0.431	0.195	0.250	0.256	0.080
7490017	3x120 / 3x25	40.4	46.9	6,090	285	301	0.354	0.340	0.154	0.198	0.250	0.079
7490018	3x150 / 3x25	45.9	52.6	7,500	320	347	0.304	0.278	0.126	0.163	0.248	0.078
7490019	3x185 / 3x35	49.6	57.5	8,905	345	397	0.257	0.221	0.100	0.130	0.247	0.078
7490020	3x240 / 3x50	56.7	65.0	11,750	390	468	0.214	0.168	0.0762	0.099	0.243	0.076
7490021	3x300 / 3x50	64.0	72.7	14,500	440	540	0.186	0.134	0.0607	0.0802	0.241	0.076

1.8/3 kV

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Voltage drop cos μ = 1.0 (V/A-km)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)
7977012	3x25/3x6	25.8	31.0	2,010	190	110	1.40	1.62	0.734	0.938	0.308	0.097
7977312	3x25/3x10	25.8	31.0	2,120	190	110	1.40	1.62	0.734	0.938	0.308	0.097
7977013	3x35/3x6	28.4	33.8	2,395	205	137	1.03	1.17	0.529	0.675	0.293	0.092
7977313	3x35/3x10	28.4	33.8	2,510	205	137	1.03	1.17	0.529	0.675	0.293	0.092
7977014	3x50/3x10	32.1	37.6	3,070	230	167	0.783	0.865	0.391	0.499	0.280	0.088
7977314	3x50/3x16	32.1	37.6	3,230	230	167	0.783	0.865	0.391	0.499	0.280	0.088
7977015	3x70/3x16	35.5	41.6	4,095	250	214	0.566	0.598	0.270	0.345	0.269	0.085
7977016	3x95/3x16	39.9	46.4	5,310	280	259	0.433	0.433	0.195	0.250	0.266	0.084
7977017	3x120/3x25	44.4	51.1	6,525	310	301	0.358	0.343	0.154	0.198	0.257	0.081
7977018	3x150/3x25	48.7	56.3	7,875	340	347	0.307	0.282	0.126	0.163	0.250	0.079
7977019	3x185/3x35	51.5	59.5	9,145	360	397	0.261	0.225	0.100	0.130	0.247	0.078
7977020	3x240/3x50	57.7	66.2	11,865	400	468	0.216	0.172	0.0762	0.0993	0.240	0.075
7977021	3x300/3x50	64.2	72.8	14,440	440	540	0.188	0.139	0.0607	0.0802	0.235	0.074

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

EXZHELLENT® 606

RFOU-VFD Variable Frequency Drives Mud Resistant
Armoured and Screened Medium Voltage Power
3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV - 18/30 kV

STANDARDS:

CONSTRUCTION: IEC 60092-354 / IEC 60092-360 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2 / IEC 61034-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper class 2 flexible to IEC 60228.

2. INNER SEMICONDUCTOR

3. INSULATION:

Ethylene-propylene rubber (EPR).

4. OUTER SEMICONDUCTOR:

Core identification: see page 21.

5. METALLIC SCREEN: OVER INSULATION:

Copper tape.

6. THREE DISTRIBUTED EARTHING CORES:

Copper, class 2 flexible.
Ethylene-propylene rubber (EPR).

7. INNER COVERING:

Halogen-free compound.

8. SCREEN/ARMOUR:

Copper polyester tape + tinned copper wire braid.
VFD compliant with IEEE 1580.

9. OUTER SHEATH:

Halogen-free Mud resistant cross-linked compound (SHF Mud). NEK TS 606.

APPLICATIONS:

Medium voltage power cables for variable frequency drives (VFD) in offshore applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes, and oil and mud.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -20 °C.



EXZHELLENT® 606
 RFOU-VFD Variable Frequency Drives Mud Resistant Medium Voltage
 Armoured and Screened Power
 3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV - 18/30 kV

exZhellent 606

PHYSICAL & ELECTRICAL CHARACTERISTICS:

3.6/6 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
7941312	3x25	13.6	39.1	45.4	3,740	685	105	0.734	0.937	0.392	0.123	0.316
7941313	3x25	14.8	41.8	48.3	4,380	725	130	0.529	0.675	0.374	0.117	0.351
7941314	3x50	16.3	45.6	52.3	5,275	785	159	0.391	0.499	0.351	0.110	0.395
7941315	3x70	17.8	48.9	56.0	6,195	845	203	0.270	0.345	0.329	0.103	0.438
7941316	3x95	19.4	52.5	60.6	7,920	910	246	0.195	0.249	0.314	0.099	0.485
7941317	3x120	21.7	58.1	66.3	9,280	1.000	286	0.154	0.197	0.302	0.095	0.552
7941318	3x150	23.7	63.3	71.8	11,105	1.080	330	0.126	0.162	0.293	0.092	0.610

6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
7942314	3x50	18.1	49.6	56.7	5,375	855	159	0.391	0.499	0.372	0.117	0.307
7942315	3x70	19.6	53.0	60.3	6,565	905	203	0.270	0.345	0.349	0.110	0.339
7942316	3x95	21.2	57.0	65.4	8,165	985	246	0.195	0.249	0.332	0.104	0.374
7942317	3x120	23.5	62.9	71.5	9,420	1.075	286	0.154	0.197	0.319	0.100	0.423

8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
7943314	3x50	20.3	55.0	63.2	6,915	950	159	0.391	0.499	0.395	0.124	0.247
7943315	3x70	21.8	58.3	66.8	8,135	1.005	203	0.270	0.345	0.370	0.116	0.272
7943316	3x95	23.4	62.7	71.3	9,865	1.075	246	0.195	0.249	0.352	0.111	0.298
7943317	3x120	25.7	67.8	76.9	11,275	1.155	286	0.154	0.197	0.337	0.106	0.335

12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
7944314	3x50	22.3	60.2	68.9	7,840	1.035	159	0.529	0.675	0.414	0.130	0.213
7944315	3x70	23.8	63.6	72.4	9,130	1.090	203	0.270	0.345	0.388	0.122	0.233

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable].

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

*Designs with rated voltage 18/30 kV available upon request.

GENFIRE HCF

GENFIRE® HCF

P30, P31, P32, P33 RFOU-HCF Fire Resistant Armoured
Medium Voltage Power
6/10 kV - 8.7/15 kV - 12/20 kV - 18/30 kV

STANDARDS:

CONSTRUCTION: IEC 60092-354 / IEC 60092-376 / NEK TS 606

FIRE PERFORMANCE: IEC 60332-1-2 / IEC 60332-3-22 / IEC 60754-1
IEC 60754-2



CONSTRUCTION:

1. CONDUCTOR:

Tinned copper, class 2 to IEC 60228.

2. CONDUCTOR SCREENING:

Semi-conducting material.

3. INSULATION:

Cross-Linked Polyethylene. IEC 60092-360.

4. INSULATION SCREENING:

Semi-conducting material.

5. CORE METALLIC SCREEN:

Tinned copper wire braid.

6. BEDDING/INNER COVERING:

Halogen-free compound.

7. ARMOUR:

Tinned copper wire braid.

8. SHEATH:

Halogen-free cross-linked compound (SHF 2). IEC 60092-360.

9. HC FIRE PROTECTION:

Extruded thermoplastic fire protection compound.

10. GLASS FIBRE TAPE

11. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Medium voltage power cables for continuous operation during a 1,100 °C hydrocarbon fire.

Flame retardant, low-smoke and halogen-free.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C



PHYSICAL & ELECTRICAL CHARACTERISTICS:

SINGLE CORE 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)	Capacitance (μF/km)
1N01112	1x25	13.6	18.4	53.6	4,055	805	111	0.734	0.937	0.649	0.204	0.207
1N01113	1x35	14.6	19.4	54.6	4,280	820	140	0.529	0.675	0.619	0.195	0.230
1N01114	1x50	15.8	20.6	56.2	4,600	845	171	0.391	0.499	0.589	0.185	0.257
1N01115	1x70	17.2	22.0	57.6	4,970	865	221	0.270	0.345	0.557	0.175	0.287
1N01116	1x95	18.9	23.7	59.7	5,480	900	271	0.195	0.249	0.531	0.167	0.324
1N01117	1x120	20.6	25.4	61.6	5,960	925	316	0.154	0.197	0.509	0.160	0.359
1N01118	1x150	21.7	26.9	63.3	6,435	950	367	0.126	0.162	0.495	0.155	0.384
1N01119	1x185	23.4	28.6	65.4	7,055	985	422	0.100	0.129	0.478	0.150	0.421
1N01120	1x240	25.8	31.1	68.0	7,925	1,025	502	0.0762	0.099	0.456	0.143	0.472
1N01121	1x300	28.0	33.3	71.0	8,955	1,070	581	0.0607	0.0802	0.442	0.139	0.519
1N01122	1x400	31.9	37.6	76.1	10,605	1,145	680	0.0475	0.0641	0.431	0.135	0.603
1N01123	1x500	35.5	41.6	80.5	12,305	1,210	782	0.0369	0.0515	0.413	0.130	0.679
1N01124	1x630	39.7	45.8	85.4	14,385	1,285	900	0.0286	0.0423	0.396	0.124	0.768

THREE CORE WITH EARTHING CONDUCTOR(S) 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (Ohm/km)	AC conductor resistance at 90 °C (Ohm/km)	Inductance (mH/km)	Reactance at 50 Hz (Ohm/km)	Capacitance (μF/km)
1N01012	3x25 + E16	13.6	39.3	78.0	8,710	1,175	105	0.734	0.937	0.416	0.131	0.207
1N01013	3x35 + E16	14.6	41.7	80.8	9,470	1,215	130	0.529	0.675	0.395	0.124	0.230
1N01014	3x50 + E25	15.8	44.4	84.1	10,410	1,265	159	0.391	0.499	0.372	0.117	0.257
1N01015	3x70 + E35	17.2	47.5	86.8	11,580	1,305	203	0.270	0.345	0.349	0.110	0.287
1N01016	3x95 + E16	18.9	51.8	92.2	13,440	1,385	246	0.195	0.249	0.332	0.104	0.324
1N01017	3x120 + E25	20.6	55.5	96.3	15,465	1,445	286	0.154	0.197	0.319	0.100	0.359
1N01018	3x150 + E25	21.7	58.1	99.3	16,780	1,490	330	0.126	0.162	0.308	0.097	0.384
1N01019	3x185 + E35	23.4	62.6	104.5	19,205	1,570	377	0.100	0.129	0.299	0.094	0.421

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

THREE CORE WITHOUT EARTHING CONDUCTORS 6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N01312	3x25/16	13.6	39.3	78.0	8,730	1,175	105	0.734	0.937	0.416	0.131	0.207
1N01313	3x35/16	14.6	41.7	80.8	9,510	1,215	130	0.529	0.675	0.395	0.124	0.230
1N01314	3x50/25	15.8	44.4	84.1	10,475	1,265	159	0.391	0.499	0.372	0.117	0.257
1N01315	3x70/35	17.2	47.5	86.8	11,605	1,305	203	0.270	0.345	0.349	0.110	0.287
1N01316	3x95/47.5	18.9	51.8	92.2	13,515	1,385	246	0.195	0.249	0.332	0.104	0.324
1N01317	3x120/60	20.6	55.5	96.9	15,270	1,455	286	0.154	0.197	0.319	0.100	0.359
1N01318	3x150/75	21.7	58.1	99.7	16,745	1,500	330	0.126	0.162	0.308	0.097	0.384
1N01319	3x185/92.5	23.4	62.6	105.1	19,195	1,580	377	0.100	0.129	0.299	0.094	0.421

SINGLE CORE 8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N02112	1x25	15.8	20.6	56.2	4,435	845	111	0.734	0.937	0.659	0.207	0.170
1N02113	1x35	16.8	21.6	57.2	4,660	860	140	0.529	0.675	0.629	0.198	0.188
1N02114	1x50	18.0	22.8	58.8	4,995	885	171	0.391	0.499	0.598	0.188	0.208
1N02115	1x70	19.4	24.2	60.2	5,370	905	221	0.270	0.345	0.565	0.178	0.232
1N02116	1x95	21.1	25.9	62.3	5,895	935	271	0.195	0.249	0.539	0.169	0.260
1N02117	1x120	22.8	28.0	64.6	6,450	970	316	0.154	0.197	0.518	0.163	0.287
1N02118	1x150	23.9	29.1	65.9	6,865	990	367	0.126	0.162	0.503	0.158	0.306
1N02119	1x185	25.6	30.9	67.8	7,465	1,020	422	0.100	0.129	0.485	0.152	0.333
1N02120	1x240	28.0	33.3	71.2	8,550	1,070	502	0.0762	0.099	0.465	0.146	0.373
1N02121	1x300	30.2	35.9	74.2	9,605	1,115	581	0.0607	0.0802	0.450	0.141	0.408
1N02122	1x400	34.1	40.2	79.1	11,205	1,190	680	0.0475	0.0641	0.439	0.138	0.471
1N02123	1x500	37.7	43.8	83.1	12,845	1,250	782	0.0369	0.0515	0.419	0.132	0.530
1N02124	1x630	41.9	48.0	86.8	14,765	1,305	900	0.0286	0.0423	0.399	0.125	0.597

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:
THREE CORE WITH EARTHING CONDUCTOR(S) 8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N02012	3x25 + E16	15.8	44.3	84.0	10,005	1,260	105	0.734	0.937	0.442	0.139	0.170
1N02013	3x35 + E16	16.8	46.6	85.9	10,705	1,290	130	0.529	0.675	0.420	0.132	0.188
1N02014	3x50 + E25	18.0	49.7	89.8	11,820	1,350	159	0.391	0.499	0.395	0.124	0.208
1N02015	3x70 + E35	19.4	52.9	93.3	13,155	1,400	203	0.270	0.345	0.370	0.116	0.232
1N02016	3x95 + E16	21.1	56.7	97.8	15,140	1,470	246	0.195	0.249	0.352	0.111	0.260
1N02017	3x120 + E25	22.8	61.2	102.8	17,205	1,545	286	0.154	0.197	0.337	0.106	0.287

THREE CORE WITHOUT EARTHING CONDUCTORS 8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N02312	3x25 / 16	15.8	44.3	84.3	10,025	1,270	105	0.734	0.937	0.442	0.139	0.170
1N02313	3x35 / 16	16.8	46.6	85.9	10,660	1,290	130	0.529	0.675	0.420	0.132	0.188
1N02314	3x50 / 25	18.0	49.7	89.8	11,780	1,350	159	0.391	0.499	0.395	0.124	0.208
1N02315	3x70 / 35	19.4	52.9	93.3	13,080	1,400	203	0.270	0.345	0.370	0.116	0.232
1N02316	3x95 / 47.5	21.1	56.7	97.8	14,775	1,470	246	0.195	0.249	0.352	0.111	0.260
1N02317	3x120 / 60	22.8	61.2	103.2	16,760	1,550	286	0.154	0.197	0.337	0.106	0.287

SINGLE CORE 12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N03113	1x35	18.8	23.6	59.6	5,030	895	140	0.529	0.675	0.637	0.200	0.164
1N03114	1x50	20.0	24.8	61.0	5,335	920	171	0.391	0.499	0.605	0.190	0.181
1N03115	1x70	21.4	26.2	62.6	5,755	940	221	0.270	0.345	0.573	0.180	0.200
1N03116	1x95	23.1	28.3	65.1	6,360	980	271	0.195	0.249	0.548	0.172	0.223
1N03117	1x120	24.8	30.0	66.8	6,825	1,005	316	0.154	0.197	0.525	0.165	0.246
1N03118	1x150	25.9	31.2	68.7	7,400	1,035	367	0.126	0.162	0.511	0.161	0.261
1N03119	1x185	27.6	32.9	70.6	8,010	1,060	422	0.100	0.129	0.494	0.155	0.284
1N03120	1x240	30.0	35.7	74.0	9,120	1,115	502	0.0762	0.099	0.473	0.149	0.316
1N03121	1x300	32.2	38.3	76.8	10,110	1,155	581	0.0607	0.0802	0.457	0.144	0.346
1N03122	1x400	35.5	41.6	80.7	11,530	1,215	680	0.0475	0.0641	0.443	0.139	0.390
1N03123	1x500	39.1	45.2	85.3	13,285	1,280	782	0.0369	0.0515	0.425	0.133	0.437
1N03124	1x630	43.3	49.7	89.0	15,225	1,340	900	0.0286	0.0423	0.404	0.127	0.492

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

THREE CORE WITH EARTHING CONDUCTOR(S) 12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N03013	3x35 + E16	18.8	51.9	92.0	12,095	1.380	130	0.529	0.675	0.440	0.138	0.164
1N03014	3x50 + E25	20.0	55.0	95.8	13,330	1.440	159	0.391	0.499	0.414	0.130	0.181
1N03015	3x70 + E35	21.4	58.1	99.4	14,745	1.495	203	0.270	0.345	0.388	0.122	0.200
1N03016	3x95 + E16	23.1	62.0	103.6	16,465	1.555	246	0.195	0.249	0.368	0.116	0.223

THREE CORE WITHOUT EARTHING CONDUCTORS 12/20 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N03313	3x35 / 16	18.8	51.9	92.0	11,990	1.380	130	0.529	0.675	0.440	0.138	0.164
1N03314	3x50 / 25	20.0	55.0	95.8	13,160	1.440	159	0.391	0.499	0.414	0.130	0.181
1N03315	3x70 / 35	21.4	58.1	99.4	14,510	1.495	203	0.270	0.345	0.388	0.122	0.200
1N03316	3x95 / 47.5	23.1	62.0	103.6	16,200	1.555	246	0.195	0.249	0.368	0.116	0.223

INGLE CORE 18/30 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Overall diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Minimum bending radius ¹⁾ (mm)	Current rating air 45°C ²⁾ (A)	DC conductor resistance at 20 °C (0hm/km)	AC conductor resistance at 90 °C (0hm/km)	Inductance (mH/km)	Reactance at 50 Hz (0hm/km)	Capacitance (μF/km)
1N04114	1x50	25.0	30.3	66.6	6,045	1.000	171	0.391	0.499	0.623	0.196	0.141
1N04115	1x70	26.4	31.7	69.6	6,995	1.045	221	0.270	0.345	0.594	0.187	0.155
1N04116	1x95	28.1	33.4	71.3	7,495	1.070	271	0.195	0.249	0.566	0.178	0.171
1N04117	1x120	29.8	35.5	73.6	8,150	1.105	316	0.154	0.197	0.545	0.171	0.187
1N04118	1x150	30.9	36.6	75.1	8,630	1.130	367	0.126	0.162	0.529	0.166	0.198
1N04119	1x185	32.6	38.7	77.4	9,360	1.165	422	0.100	0.129	0.512	0.161	0.214
1N04120	1x240	35.0	41.1	80.2	10,350	1.205	502	0.0762	0.099	0.489	0.154	0.236
1N04121	1x300	37.2	43.3	82.4	11,245	1.240	581	0.0607	0.0802	0.471	0.148	0.257
1N04122	1x400	41.1	47.2	86.5	12,815	1.300	680	0.0475	0.0641	0.457	0.144	0.293
1N04123	1x500	44.7	51.2	91.3	14,680	1.370	782	0.0369	0.0515	0.438	0.138	0.326
1N04124	1x630	48.9	56.1	96.6	16,945	1.450	900	0.0286	0.0423	0.420	0.132	0.364

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable] or F [Single core cable].

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).



CABLES FOR MARINE INSTALLATIONS

LOW VOLTAGE POWER

- 164** EXZHELLENT MAR® RDt
- 168** EXZHELLENT MAR® RDtC4Dt
- 172** EXZHELLENT MAR® RC4Dt
- 176** EXZHELLENT MAR® RHDtC4Dt

CONTROL

- 180** EXZHELLENT MAR® RDt 0.6/1 kV
- 182** EXZHELLENT MAR® RDtC4Dt 0.6/1 kV
- 184** EXZHELLENT MAR® RC4Dt 0.6/1 kV
- 186** EXZHELLENT MAR® RDt 150/250 V
- 188** EXZHELLENT MAR® RC4Dt 150/250 V
- 190** EXZHELLENT MAR® RDtC4Dt 150/250 V
- 192** EXZHELLENT MAR® RO2Dt

INSTRUMENTATION

- 194** EXZHELLENT MAR® RO2Dt
- 196** EXZHELLENT MAR® RO1Dt
- 198** EXZHELLENT MAR® RC4Dt
- 200** EXZHELLENT MAR® RDtC4Dt
- 202** EXZHELLENT MAR® RO1C4Dt
- 204** EXZHELLENT MAR® RO1DtC4Dt

SWITCHBOARD AND EARTHING WIRE

- 206** EXZHELLENT MAR® UX

FIRE RESISTANT LOW VOLTAGE POWER

- 208** GENFIRE MAR® RDt-M
- 212** GENFIRE MAR® RDtC4Dt-M
- 216** GENFIRE MAR® RDt-M
- 218** GENFIRE MAR® RC4Dt-M

FIRE RESISTANT INSTRUMENTATION

- 220** GENFIRE MAR® RC4Dt-M
- 222** GENFIRE MAR® RO1C4Dt-M

VARIABLE FREQUENCY DRIVES LOW VOLTAGE POWER

- 224** EXZHELLENT MAR® RO2C4Dt-VFD
- 226** EXZHELLENT MAR® RO2C4DtZbDt-VFD

VARIABLE FREQUENCY DRIVES MEDIUM VOLTAGE POWER

- 228** EXZHELLENT MAR® DHDtO2C4Dt-VFD

EXZHELLENT MAR®

RDt Non Armoured Low Voltage Power
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin (optional in big cross sections).

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible cables for marine applications with special performance of flame spread and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Inductance (mH/km)
7783105	1x1	4.7	35	20	-	34.60	0.455
7783106	1x1,5	4.9	40	20	20	23.64	0.430
7783107	1x2,5	5.3	50	25	28	14.23	0.395
7783108	1x4	5.9	65	25	37	8.865	0.365
7783109	1x6	6.4	85	30	47	5.942	0.342
7783110	1x10	7.4	125	30	65	3.477	0.314
7783111	1x16	8.4	180	35	87	2.234	0.295
7783112	1x25	10.2	275	45	117	1.473	0.290
7783113	1x35	11.3	365	45	147	1.069	0.277
7783114	1x50	13.1	510	55	180	0.771	0.272
7783115	1x70	15.4	715	65	233	0.567	0.265
7783116	1x95	17.0	920	70	285	0.448	0.257
7783117	1x120	19.2	1,170	80	333	0.367	0.253
7783118	1x150	21.2	1,450	85	386	0.311	0.254
7783119	1x185	23.1	1,740	95	444	0.270	0.253
7783120	1x240	26.4	2,310	160	528	0.222	0.248
7783121	1x300	30.0	2,890	180	612	0.193	0.243
7783205	2x1	7.3	60	30	-	34.57	0.349
7783206	2x1,5	7.8	70	35	23	23.61	0.331
7783207	2x2,5	8.8	105	35	31	14.20	0.307
7783208	2x4	9.9	150	40	43	8.839	0.287
7783209	2x6	11.0	215	45	55	5.919	0.272
7783210	2x10	13.1	330	55	75	3.458	0.256
7783211	2x16	15.3	480	65	100	2.218	0.245
7783212	2x25	18.8	725	75	130	1.458	0.246
7783213	2x35	21.2	970	85	161	1.057	0.239
7783214	2x50	23.5	1,335	95	196	0.766	0.250
7783215	2x70	25.1	1,645	150	251	0.556	0.232
7783216	2x95	27.8	2,110	170	306	0.438	0.227
7783217	2x120	31.3	2,675	190	357	0.358	0.226
7783218	2x150	34.6	3,315	210	412	0.302	0.228
7783219	2x185	38.0	4,005	230	472	0.262	0.229
7783220	2x240	43.5	5,315	265	558	0.215	0.226

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable), or F (Single core cable; three conductors trefoil).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight (kg/km) ¹⁾	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Inductance (mH/km)
7783305	3x1	7.7	75	35	-	34.57	0.349
7783305*	2x1+1	7.7	75	35	-	34.57	0.349
7783306	3x1.5	8.3	90	35	20	23.61	0.331
7783306*	2x1.5+1.5	8.3	90	35	23	23.61	0.331
7783307	3x2.5	9.4	130	40	28	14.20	0.307
7783307*	2x2.5+2.5	9.4	130	40	31	14.20	0.307
7783308	3x4	10.5	170	45	37	8.839	0.287
7783308*	2x4+4	10.5	170	45	43	8.839	0.287
7783309	3x6	11.9	275	50	47	5.919	0.272
7783309*	2x6+6	11.9	275	50	55	5.919	0.272
7783310	3x10	14.0	415	60	65	3.458	0.256
7783310*	2x10+10	14.0	415	60	75	3.458	0.256
7783311	3x16	16.3	610	65	87	2.218	0.245
7783311*	2x16+16	16.3	610	65	100	2.218	0.245
7783312	3x25	20.1	930	80	110	1.458	0.246
7783313	3x35	22.7	1,255	95	137	1.057	0.239
7783314	3x50	25.3	1,595	155	167	0.759	0.235
7783315	3x70	29.4	2,205	180	214	0.556	0.232
7783316	3x95	32.6	2,840	195	259	0.438	0.227
7783317	3x120	36.9	3,625	225	301	0.358	0.226
7783318	3x150	40.6	4,475	245	347	0.302	0.228
7783319	3x185	44.5	5,410	270	397	0.262	0.229
7783320	3x240	51.0	7,185	310	468	0.215	0.226
7783321	3x300	58.1	9,015	350	540	0.186	0.223
7783405	4x1	8.4	90	35	-	34.57	0.349
7783405*	3x1+1	8.4	90	35	-	34.57	0.349
7783406	4x1.5	9.2	115	40	20	23.61	0.331
7783406*	3x1.5+1.5	9.2	115	40	20	23.61	0.331
7783407	4x2.5	10.2	165	45	28	14.20	0.307

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7783407*	3x2.5+2.5	10.2	165	45	28	14.20	0.307
7783408	4x4	11.7	235	50	37	8.839	0.287
7783408*	3x4+4	11.7	235	50	37	8.839	0.287
7783409	4x6	13.0	335	55	47	5.919	0.272
7783409*	3x6+6	13.0	335	55	47	5.919	0.272
7783410	4x10	15.5	530	65	65	3.458	0.256
7783410*	3x10+10	15.5	530	65	65	3.458	0.256
7783411	4x16	18.2	780	75	87	2.218	0.245
7783411*	3x16+16	18.2	780	75	87	2.218	0.245
7783412	4x25	22.4	1,185	90	110	1.458	0.246
7783413	4x35	25.2	1,605	155	137	1.057	0.239
7783414	4x50	27.7	2,115	170	167	0.759	0.235
7783415	4x70	32.2	2,965	195	214	0.556	0.232
7783416	4x95	35.9	3,845	220	259	0.438	0.227
7783417	4x120	40.5	4,890	245	301	0.358	0.226
7783418	4x150	45.1	6,085	270	347	0.302	0.228
7783419	4x185	49.4	7,350	300	397	0.262	0.229
7783420	4x240	56.6	9,765	340	468	0.215	0.226
7783421	4x300	64.4	12,275	390	540	0.186	0.223
7783505*	4x1+1	9.4	130	40	-	34.57	0.349
7783506*	4x1.5+1.5	10.1	155	40	20	23.61	0.331
7783507*	4x2.5+2.5	11.2	215	45	28	14.20	0.307
7783508*	4x4+4	12.9	305	55	37	8.839	0.287
7783509*	4x6+6	14.6	420	60	47	5.919	0.272
7783510*	4x10+10	17.2	650	70	65	3.458	0.256
7783511*	4x16+16	20.1	960	80	87	2.218	0.245
7783512*	4x25+25	25.0	1,480	100	110	1.458	0.246
7783513*	4x35+35	28.2	2,005	170	137	1.057	0.239
7783514*	4x50+50	32.9	2,805	200	167	0.759	0.236

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

EXZHELLENT MAR®

RDtC4Dt Armoured Low Voltage Power
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin.

4. ARMOUR:

Copper wire braid.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (0hm/km)	Capacitance (μF/km)
7784105	1x1	4.7	7.5	90	30	-	34.63	0.549
7784106	1x1.5	4.9	7.7	95	35	20	23.67	0.520
7784107	1x2.5	5.3	8.1	110	35	28	14.26	0.480
7784108	1x4	5.9	8.7	135	35	37	8.890	0.443
7784109	1x6	6.4	9.2	160	40	47	5.966	0.414
7784110	1x10	7.4	10.4	215	45	65	3.500	0.383
7784111	1x16	8.4	11.4	280	45	87	2.254	0.356
7784112	1x25	10.0	13.2	390	55	117	1.490	0.341
7784113	1x35	11.1	14.3	495	60	147	1.085	0.325
7784114	1x50	12.7	16.5	695	70	180	0.786	0.318
7784115	1x70	14.8	18.8	930	75	233	0.580	0.305
7784116	1x95	16.4	20.4	1,150	85	285	0.460	0.293
7784117	1x120	18.4	22.6	1,430	90	333	0.378	0.286
7784118	1x150	20.2	24.6	1,735	100	386	0.321	0.284
7784119	1x185	22.1	26.5	2,050	160	444	0.279	0.280
7784120	1x240	25.2	29.8	2,700	180	528	0.230	0.272
7784121	1x300	28.6	33.4	3,290	200	612	0.200	0.265
7784205	2x1	7.3	10.3	150	45	-	34.57	0.349
7784206	2x1.5	7.8	10.8	165	45	23	23.61	0.331
7784207	2x2.5	8.6	11.6	200	50	31	14.20	0.307
7784208	2x4	9.7	12.9	240	55	43	8.839	0.287
7784209	2x6	10.8	14.0	340	60	55	5.919	0.272
7784210	2x10	12.7	16.5	515	70	75	3.458	0.256
7784211	2x16	14.7	18.7	690	75	100	2.218	0.245
7784212	2x25	18.0	22.2	980	90	130	1.458	0.246
7784213	2x35	20.2	24.6	1,260	100	161	1.057	0.239
7784214	2x50	20.0	24.6	1,455	150	196	0.759	0.235
7784215	2x70	23.5	28.3	1,965	170	251	0.556	0.232
7784216	2x95	26.4	31.4	2,495	190	306	0.438	0.227
7784217	2x120	29.7	35.5	3,210	215	357	0.358	0.226
7784218	2x150	32.8	38.8	3,900	235	412	0.302	0.228
7784219	2x185	36.2	42.6	4,690	255	472	0.262	0.229
7784220	2x240	41.3	48.1	6,095	290	558	0.215	0.226

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable), or F (Single core cable; three conductors trefoil).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (0hm/km)	Capacitance (μF/km)
7784305	3x1	7.7	10.7	170	45	-	34.57	0.349
7784305*	2x1+1	7.7	10.7	170	45	-	34.57	0.349
7784306	3x1.5	8.3	11.3	190	45	20	23.61	0.331
7784306*	2x1.5+1.5	8.3	11.3	190	45	23	23.61	0.331
7784307	3x2.5	9.2	12.2	230	50	28	14.20	0.307
7784307*	2x2.5+2.5	9.2	12.2	230	50	31	14.20	0.307
7784308	3x4	10.3	13.5	290	55	37	8.839	0.287
7784308*	2x4+4	10.3	13.5	290	55	43	8.839	0.287
7784309	3x6	11.5	14.7	400	60	47	5.919	0.272
7784309*	2x6+6	11.5	14.7	400	60	55	5.919	0.272
7784310	3x10	13.6	17.4	610	70	65	3.458	0.256
7784310*	2x10+10	13.6	17.4	610	70	75	3.458	0.256
7784311	3x16	15.7	19.7	835	80	87	2.218	0.245
7784311*	2x16+16	15.7	19.7	835	80	100	2.218	0.245
7784312	3x25	19.3	23.5	1,200	95	110	1.458	0.246
7784313	3x35	21.7	26.1	1,570	160	137	1.057	0.239
7784314	3x50	23.7	28.5	1,920	175	167	0.759	0.235
7784315	3x70	28.2	33.2	2,630	200	214	0.556	0.232
7784316	3x95	31.2	36.4	3,310	220	259	0.438	0.227
7784317	3x120	35.1	41.1	4,250	250	301	0.358	0.226
7784318	3x150	39.2	45.4	5,220	275	347	0.302	0.228
7784319	3x185	42.8	49.4	6,225	300	397	0.262	0.229
7784320	3x240	49.3	56.3	8,170	340	468	0.215	0.226
7784321	3x300	55.9	63.3	10,130	380	540	0.186	0.223
7784405	4x1	8.4	11.4	190	50	-	34.57	0.349
7784405*	3x1+1	8.4	11.4	190	50	-	34.57	0.349
7784406	4x1.5	9.0	12.0	215	50	20	23.61	0.331
7784406*	3x1.5+1.5	9.0	12.0	215	50	20	23.61	0.331
7784407	4x2.5	10.0	13.2	295	55	28	14.20	0.307

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable), or F (Single core cable; three conductors trefoil).

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (0hm/km)	Capacitance (μF/km)
7784407*	3x2.5+2.5	10.0	13.2	295	55	20	14.20	0.307
7784408	4x4	11.0	14.2	350	60	37	8.244	0.304
7784408*	3x4+4	11.0	14.2	350	60	37	8.244	0.304
7784409	4x6	12.6	16.4	515	195	47	5.919	0.272
7784409*	3x6+6	12.6	16.4	515	195	47	5.919	0.272
7784410	4x10	14.9	18.9	745	80	65	3.458	0.256
7784410*	3x10+10	14.9	18.9	745	80	65	3.458	0.256
7784411	4x16	17.4	21.6	1,025	90	87	2.218	0.245
7784411*	3x16+16	17.4	21.6	1,025	90	87	2.218	0.245
7784412	4x25	21.4	25.8	1,485	155	110	1.458	0.246
7784413	4x35	24.0	28.6	1,945	175	137	1.057	0.239
7784414	4x50	26.1	31.1	2,485	190	167	0.759	0.235
7784415	4x70	31.1	36.3	3,420	220	214	0.556	0.232
7784416	4x95	34.4	40.4	4,435	245	259	0.438	0.227
7784417	4x120	39.2	45.4	5,590	275	301	0.358	0.226
7784418	4x150	43.3	49.9	6,850	300	347	0.302	0.228
7784419	4x185	47.3	54.3	8,185	330	397	0.262	0.229
7784420	4x240	54.4	62.0	10,790	375	468	0.215	0.226
7784421	4x300	61.9	69.9	13,415	420	540	0.186	0.223
7784505	4x1+1	9.2	12.2	235	75	-	34.57	0.349
7784506*	4x1.5+1.5	9.9	13.1	275	80	20	23.61	0.331
7784507*	4x2.5+2.5	11.0	14.2	345	60	28	14.20	0.307
7784508*	4x4+4	12.5	16.3	485	65	37	8.839	0.287
7784509*	4x6+6	14.0	17.8	610	75	47	5.919	0.272
7784510*	4x10+10	16.6	20.6	885	85	65	3.458	0.256
7784511*	4x16+16	19.3	23.5	1,235	95	87	2.218	0.245
7784512*	4x25+25	23.8	28.4	1,815	170	110	1.458	0.246
7784513*	4x35+35	26.8	31.6	2,380	190	137	1.057	0.239
7784514*	4x50+50	31.5	36.7	3,280	220	167	0.759	0.236

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. ARMOUR:

Copper wire braid.

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Inductance (mH/km)
7596105	1x1	2.8	5.7	52	35	-	34.62	0.496
7596106	1x1.5	3.0	6.0	60	36	20	23.65	0.469
7596107	1x2.5	3.5	6.4	72	39	28	14.24	0.431
7596108	1x4	4.0	6.9	91	42	37	8.876	0.398
7596109	1x6	4.5	7.5	115	45	47	5.952	0.372
7596110	1x10	5.5	8.4	160	51	65	3.486	0.341
7596111	1x16	6.5	9.6	225	58	87	2.243	0.323
7596112	1x25	8.1	11.3	325	91	117	1.479	0.309
7596113	1x35	9.2	12.6	425	105	147	1.076	0.298
7596114	1x50	11.1	14.4	585	120	180	0.777	0.291
7596115	1x70	13.2	17.1	830	140	233	0.574	0.286
7596116	1x95	14.8	18.9	1,055	115	285	0.455	0.278
7596117	1x120	16.8	21.1	1,320	170	333	0.373	0.272
7596118	1x150	18.6	22.9	1,605	185	386	0.316	0.269
7596119	1x185	20.7	25.2	1,940	205	444	0.275	0.270
7596120	1x240	23.6	28.3	2,510	170	528	0.228	0.264
7596121	1x300	27.2	32.1	3,110	195	612	0.197	0.257
7596205	2x1	5.6	8.7	105	53	-	34.57	0.349
7596206	2x1.5	6.1	9.2	120	56	23	23.61	0.331
7596207	2x2.5	7.0	10.3	160	62	31	14.20	0.307
7596208	2x4	8.2	11.5	205	92	43	8.839	0.287
7596209	2x6	9.3	13.2	290	110	55	5.919	0.272
7596210	2x10	11.2	15.3	410	125	75	3.458	0.256
7596211	2x16	13.2	17.3	555	140	100	2.218	0.245
7596212	2x25	16.5	20.8	800	170	130	1.458	0.246
7596213	2x35	18.7	23.2	1,030	190	161	1.057	0.239
7596214	2x50	22.0	26.7	1,280	215	196	0.759	0.236
7596215	2x70	21.7	26.9	1,665	215	251	0.556	0.232
7596216	2x95	24.3	29.6	2,105	240	306	0.438	0.228
7596217	2x120	27.7	33.6	2,710	270	357	0.358	0.226
7596218	2x150	30.7	37.0	3,325	300	412	0.302	0.228
7596219	2x185	33.8	40.3	3,990	325	472	0.262	0.229
7596220	2x240	38.9	45.8	5,190	370	558	0.215	0.226

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable), or F (Single core cable; three conductors trefoil).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7596305	3x1	6.0	9.4	125	57	-	34.57	0.349
7596305*	2x1+1	6.0	9.4	125	57	-	34.57	0.349
7596306	3x1,5	6.6	9.9	145	60	20	23.61	0.331
7596306*	2x1,5+1,5	6.6	9.9	145	60	23	23.61	0.331
7596307	3x2,5	7.5	10.8	180	65	28	14.20	0.307
7596307*	2x2.5+2.5	7.5	10.8	180	65	31	14.20	0.307
7596308	3x4	8.8	12.7	270	77	37	8.839	0.287
7596308*	2x4+4	8.8	12.7	270	77	43	8.839	0.287
7596309	3x6	10.0	13.9	340	84	47	5.919	0.272
7596309*	2x6+6	10.0	13.9	340	84	55	5.919	0.272
7596310	3x10	12.0	16.1	490	97	65	3.458	0.256
7596310*	2x10+10	12.0	16.1	490	97	75	3.458	0.256
7596311	3x16	14.2	18.3	710	110	87	2.218	0.245
7596311*	2x16+16	14.2	18.3	710	110	100	2.218	0.245
7596312	3x25	17.7	22.2	1,100	135	110	1.458	0.246
7596313	3x35	20.3	25.0	1,365	200	137	1.057	0.239
7596314	3x50	21.6	26.5	1,725	160	167	0.759	0.236
7596315	3x70	25.8	30.9	2,355	190	214	0.556	0.232
7596316	3x95	28.8	34.1	2,995	205	259	0.438	0.228
7596317	3x120	32.8	38.5	3,785	235	301	0.358	0.226
7596318	3x150	36.4	42.9	4,770	345	347	0.302	0.228
7596319	3x185	40.1	47.0	5,760	380	397	0.262	0.229
7596320	3x240	46.2	53.5	7,510	430	468	0.215	0.226
7596321	3x300	52.9	60.6	9,415	485	540	0.186	0.223
7596405	4x1	6.7	10.0	145	61	-	34.57	0.349
7596405*	3x1+1	6.7	10.0	145	61	-	34.57	0.349
7596406	4x1,5	7.3	10.7	190	64	20	23.61	0.331
7596406*	3x1.5+1.5	7.3	10.7	190	64	20	23.61	0.331
7596407	4x2,5	8.4	12.3	245	99	28	14.20	0.307

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 [V/A·km]	Inductance (mH/km)
7596407*	3x2.5+2.5	8.4	12.3	245	99	28	14.20	0.307
7596408	4x4	9.8	13.7	320	110	37	8.839	0.287
7596408*	3x4+4	9.8	13.7	320	110	37	8.839	0.287
7596409	4x6	11.1	15.2	415	125	47	5.919	0.272
7596409*	3x6+6	11.1	15.2	415	125	47	5.919	0.272
7596410	4x10	13.4	17.5	595	145	65	3.458	0.256
7596410*	3x10+10	13.4	17.5	595	145	65	3.458	0.256
7596411	4x16	15.8	20.1	845	165	87	2.218	0.245
7596411*	3x16+16	15.8	20.1	845	165	87	2.218	0.245
7596412	4x25	19.8	24.3	1,270	195	110	1.458	0.246
7596413	4x35	22.5	27.2	1,675	220	137	1.057	0.239
7596414	4x50	24.0	29.1	2,220	235	167	0.759	0.236
7596415	4x70	28.6	33.9	3,040	275	214	0.556	0.232
7596416	4x95	32.0	38.1	3,990	305	259	0.438	0.228
7596417	4x120	36.5	43.0	5,035	345	301	0.358	0.226
7596418	4x150	40.4	47.3	6,200	380	347	0.302	0.228
7596419	4x185	44.6	51.9	7,495	420	397	0.262	0.229
7596420	4x240	51.4	59.1	9,795	475	468	0.215	0.226
7596421	4x300	58.8	66.9	12,290	540	540	0.186	0.223
7596505*	4x1+1	7.7	11.0	175	66	-	34.57	0.349
7596506*	4x1.5+1.5	8.3	12.2	235	74	20	23.61	0.331
7596507*	4x2.5+2.5	9.5	13.4	295	81	28	14.20	0.307
7596508*	4x4+4	10.9	15.0	390	91	37	8.839	0.287
7596509*	4x6+6	12.4	16.5	505	100	47	5.919	0.272
7596510*	4x10+10	15.0	19.3	740	120	65	3.458	0.256
7596511*	4x16+16	17.7	22.2	1,050	135	87	2.218	0.245
7596512*	4x25+25	22.2	26.9	1,545	165	110	1.458	0.246
7596513*	4x35+35	25.2	30.1	2,050	185	137	1.057	0.239
7596514*	4x50+50	29.6	34.9	2,830	210	167	0.759	0.236

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable].

EXZHELLENT MAR®

RHDtC4Dt Armoured Medium Voltage Power

3.6/6 kV - 6/10 kV - 8.7/15 kV - 12/20 kV - 18/30 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 2 to IEC 60228.

2. INNER SEMICONDUCTOR

3. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

4. OUTER SEMICONDUCTOR:

Core identification: see page 21.

5. METALLIC SCREEN:

Copper tape

6. INNER COVERING:

Halogen-free thermoplastic polyolefin.

7. ARMOUR:

Copper wire braid.

8. OUTER SHEATH:

Halogen-free thermoplastic polyolefin.

APPLICATIONS:

Copper braid armoured high voltage cables for installation in marine applications with enhanced performances on flame spread and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



EXZHELLENT MAR RHDtC4Dt 3.6/6 kV

PHYSICAL & ELECTRICAL CHARACTERISTICS:

3.6/6 kV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (Ohm/km)	Capacitance (μF/km)
7785114	1x50	15.3	17.9	22.3	1,005	171	0.127	0.289
7785115	1x70	16.7	19.3	23.7	1,235	221	0.119	0.325
7785116	1x95	18.4	21.0	25.6	1,540	270	0.113	0.369
7785117	1x120	20.1	22.7	27.3	1,820	316	0.109	0.412
7785118	1x150	21.4	24.0	28.8	2,115	366	0.105	0.447
7785119	1x185	23.0	25.6	30.4	2,510	421	0.102	0.488
7785120	1x240	25.5	28.1	33.1	3,135	501	0.098	0.528
7785121	1x300	28.6	31.2	36.4	3,855	581	0.097	0.558
7785312	3x25	13.1	31.8	37.6	2,360	104	0.118	0.231
7785313	3x35	14.1	34.3	40.7	2,875	130	0.112	0.258
7785314	3x50	15.3	37.0	43.2	3,395	158	0.105	0.289
7785315	3x70	16.7	40.4	47.0	4,265	203	0.099	0.325
7785316	3x95	18.4	44.2	51.0	5,295	246	0.095	0.369
7785317	3x120	20.1	48.1	55.1	6,340	285	0.091	0.412
7785318	3x150	21.4	51.4	58.8	7,405	329	0.088	0.447

6/10 KV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (Ohm/km)	Capacitance (μF/km)
7786112	1x25	14.9	17.5	21.7	795	111	0.147	0.183
7786113	1x35	15.9	18.5	22.9	935	139	0.14	0.204
7786114	1x50	17.1	19.7	24.1	1,095	171	0.132	0.227
7786115	1x70	18.5	21.1	25.7	1,345	221	0.124	0.254
7786116	1x95	20.2	22.8	27.4	1,640	270	0.118	0.287
7786117	1x120	21.9	24.5	29.3	1,940	316	0.113	0.318
7786118	1x150	23.2	25.8	30.8	2,240	366	0.109	0.344
7786119	1x185	24.8	27.4	32.4	2,635	421	0.106	0.374
7786120	1x240	27.1	29.7	34.9	3,260	501	0.101	0.418
7786121	1x300	29.8	32.4	37.8	3,960	581	0.099	0.47
7786312	3x25	14.9	36.0	42.2	2,770	104	0.126	0.183
7786313	3x35	15.9	38.6	45.0	3,275	130	0.119	0.204
7786314	3x50	17.1	41.3	47.9	3,860	158	0.112	0.227
7786315	3x70	18.5	44.4	51.2	4,710	203	0.106	0.254
7786316	3x95	20.2	48.7	55.9	5,860	246	0.101	0.287
7786317	3x120	21.9	52.4	59.8	6,910	285	0.097	0.318
7786318	3x150	23.2	55.4	63.0	7,945	329	0.093	0.344

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

8.7/15 kV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (Ω/km)	Capacitance (μF/km)
7787112	1x25	17.1	19.7	24.1	915	111	0.154	0.151
7787113	1x35	18.1	20.7	25.3	1,060	139	0.146	0.167
7787114	1x50	19.3	21.9	26.5	1,220	171	0.138	0.184
7787115	1x70	20.7	23.3	28.1	1,475	221	0.13	0.205
7787116	1x95	22.4	25.0	29.8	1,780	270	0.123	0.23
7787117	1x120	24.1	26.7	31.7	2,085	316	0.118	0.254
7787118	1x150	25.4	28.0	33.0	2,380	366	0.114	0.273
7787119	1x185	27.0	29.6	34.8	2,795	421	0.11	0.296
7787120	1x240	29.3	31.9	37.7	3,515	501	0.106	0.33
7787121	1x300	32.0	34.6	40.8	4,255	581	0.104	0.369
7787312	3x25	17.1	41.2	47.8	3,320	104	0.135	0.151
7787313	3x35	18.1	43.5	50.3	3,820	130	0.128	0.167
7787314	3x50	19.3	46.2	53.2	4,440	158	0.12	0.184
7787315	3x70	20.7	49.8	57.0	5,380	203	0.113	0.205
7787316	3x95	22.4	53.6	61.2	6,520	246	0.107	0.23
7787317	3x120	24.1	57.3	65.1	7,610	285	0.103	0.254
7787318	3x150	25.4	60.4	68.4	8,680	329	0.099	0.273

12/20 kV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (Ω/km)	Capacitance (μF/km)
7788113	1x35	20.1	22.7	27.3	1,165	139	0.151	0.145
7788114	1x50	21.3	23.9	28.7	1,350	171	0.143	0.16
7788115	1x70	22.7	25.3	30.1	1,595	221	0.134	0.177
7788116	1x95	24.4	27.0	32.0	1,920	270	0.127	0.198
7788117	1x120	26.1	28.7	33.9	2,230	316	0.122	0.217
7788118	1x150	27.4	30.0	35.2	2,530	366	0.118	0.233
7788119	1x185	29.0	31.6	37.4	3,040	421	0.115	0.253
7788120	1x240	31.3	33.9	39.9	3,685	501	0.11	0.28
7788121	1x300	34.0	36.8	43.0	4,430	581	0.107	0.312
7788313	3x35	20.1	48.4	55.6	4,430	130	0.134	0.145
7788314	3x50	21.3	51.1	58.5	5,080	158	0.127	0.16
7788315	3x70	22.7	54.3	61.9	5,995	203	0.119	0.177
7788316	3x95	24.4	58.1	65.9	7,165	246	0.113	0.198

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

12/20 kV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (0hm/km)	Capacitance (μF/km)
7788317	3x120	26.1	61.8	70.0	8,355	285	0.108	0.217
7788318	3x150	27.4	65.3	73.7	9,470	329	0.104	0.233

18/30 kV

General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductive Reactance (0hm/km)	Capacitance (μF/km)
7791114	1x50	26.3	28.9	34.3	1,705	171	0.154	0.125
7791115	1x70	27.7	30.3	36.1	2,050	221	0.146	0.137
7791116	1x95	29.4	32.0	38.0	2,395	270	0.138	0.152
7791117	1x120	31.1	33.7	39.9	2,730	316	0.133	0.166
7791118	1x150	32.4	35.2	41.4	3,060	366	0.128	0.177
7791119	1x185	34.0	36.8	43.2	3,510	421	0.124	0.19
7791120	1x240	36.3	39.1	45.7	4,185	501	0.118	0.209
7791121	1x300	39.0	42.0	48.8	4,965	581	0.115	0.232
7791314	3x50	26.3	62.8	71.2	6,800	171	0.14	0.125
7791315	3x70	27.7	65.9	74.5	7,800	221	0.131	0.137
7791316	3x95	29.4	70.0	79.0	9,120	270	0.125	0.152
7791317	3x120	31.1	73.9	83.1	10,380	316	0.119	0.166
7791318	3x150	32.4	76.9	86.3	11,560	366	0.115	0.177

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin (optional in big cross sections).

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1).

APPLICATIONS:

Low voltage control cables for marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2655055	5x1	9.5	125	40
2655056	5x1.5	10.2	155	45
2655057	5x2.5	11.3	220	45
2655075	7x1	10.3	155	45
2655076	7x1.5	11.0	190	45
2655077	7x2.5	12.5	270	50
2655125	12x1	13.5	245	55
2655126	12x1.5	14.8	320	60
2655127	12x2.5	16.5	440	70
2655195	19x1	16.0	360	65
2655196	19x1.5	17.5	465	70
2655197	19x2.5	19.6	650	80
2655245	24x1	18.8	460	75
2655246	24x1.5	20.5	595	85
2655247	24x2.5	23.2	845	95
2655275	27x1	19.2	495	80
2655276	27x1.5	21.0	640	85
2655277	27x2.5	23.8	915	95
2655375	37x1	21.7	645	90
2655376	37x1.5	23.6	840	95
2655377	37x2.5	26.7	1,205	160

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360
FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
 IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 2.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin (SHF1). IEC 60092-360.

4. ARMOUR:

Copper wire braid.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage control cables for marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2656055	5x1	9.2	12.2	220	75
2656056	5x1.5	9.9	13.1	255	80
2656057	5x2.5	11.1	14.3	350	60
2656075	7x1	10.1	13.3	275	55
2656076	7x1.5	10.8	14.0	320	60
2656077	7x2.5	12.1	15.9	445	65
2656125	12x1	13.1	16.9	435	70
2656126	12x1.5	14.2	18.2	520	75
2656127	12x2.5	15.9	19.9	665	120
2656195	19x1	15.4	19.4	580	80
2656196	19x1.5	16.7	20.9	700	85
2656197	19x2.5	18.8	23.0	915	140
2656245	24x1	18.0	22.2	715	135
2656246	24x1.5	19.5	23.9	875	145
2656247	24x2.5	22.0	26.6	1,160	160
2656275	27x1	18.4	22.6	755	140
2656276	27x1.5	20.0	24.4	920	150
2656277	27x2.5	22.6	27.2	1,230	165
2656375	37x1	20.7	25.1	935	150
2656376	37x1.5	22.4	27.0	1,155	165
2656377	37x2.5	25.3	30.1	1,560	185

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360
FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
 IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60032-360.
 Core identification: see page 21.

3. ARMOUR:

Copper wire braid.

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage armoured control cables for marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2501055	5x1	7.7	10.8	165	87
2501056	5x1.5	8.3	11.4	200	69
2501057	5x2.5	9.5	12.8	255	105
2501066	6x1.5	9.2	12.5	235	105
2501067	6x2.5	10.5	13.8	305	115
2501075	7x1	8.4	11.5	195	93
2501076	7x1.5	9.2	12.5	245	100
2501077	7x2.5	10.4	13.7	315	110
2501087	8x2.5	12.6	16.5	450	135
2501096	9x1.5	12.1	16.0	370	130
2501125	12x1	11.5	15.4	340	125
2501126	12x1.5	12.5	16.4	410	135
2501127	12x2.5	14.3	18.4	545	150
2501166	16x1.5	14.0	18.1	505	145
2501195	19x1	13.8	17.9	470	145
2501196	19x1.5	15.0	19.1	575	155
2501197	19x2.5	17.2	21.5	780	175
2501245	24x1	16.4	20.7	580	170
2501246	24x1.5	17.9	22.2	720	180
2501247	24x2.5	20.4	24.9	980	200
2501275	27x1	16.8	21.1	625	170
2501276	27x1.5	18.3	22.6	770	185
2501277	27x2.5	20.9	25.4	1,055	205
2501375	37x1	19.0	23.5	795	190
2501376	37x1.5	20.8	25.3	990	205
2501377	37x2.5	23.7	28.6	1,380	230

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible multicore cables for installation in marine applications with special performance of flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2657024	2x0.75	6.2	60	25
2657026	2x1.5	7.3	70	30
2657034	3x0.75	6.6	65	30
2657036	3x1.5	7.7	100	35
2657044	4x0.75	7.1	80	30
2657046	4x1.5	8.6	125	35
2657074	7x0.75	8.5	115	35
2657076	7x1.5	10.3	190	45
2657124	12x0.75	11.1	185	45
2657126	12x1.5	13.5	305	55
2657194	19x0.75	13.2	270	55
2657196	19x1.5	16.0	450	65
2657244	24x0.75	15.4	345	65
2657246	24x1.5	18.8	570	75
2657274	27x0.75	15.8	370	65
2657276	27x1.5	19.2	625	80
2657374	37x0.75	17.7	490	75
2657376	37x1.5	21.7	825	90

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. SCREEN/ARMOUR:

Copper wire braid.

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured, multicore cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2659024	2x0.75	4.4	7.2	75	30
2659026	2x1.5	5.7	8.7	110	70
2659034	3x0.75	4.9	7.7	90	35
2659036	3x1.5	6.2	9.2	130	40
2659044	4x0.75	5.3	8.1	105	35
2659046	4x1.5	6.7	9.7	150	40
2659074	7x0.75	6.5	9.5	150	40
2659076	7x1.5	8.4	11.6	225	50
2659124	12x0.75	8.9	12.1	225	50
2659126	12x1.5	11.4	15.2	375	65
2659194	19x0.75	10.8	14.8	355	60
2659196	19x1.5	13.8	17.6	520	70
2659244	24x0.75	13.0	17.0	445	70
2659246	24x1.5	16.3	20.5	655	85
2659274	27x0.75	13.1	17.1	460	70
2659276	27x1.5	16.9	21.1	715	85
2659374	37x0.75	15.0	19.2	590	80
2659376	37x1.5	19.1	23.5	915	95

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin.

4. ARMOUR:

Copper wire braid.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage armoured control cables for marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2660024	2x0.75	6.2	9.0	130	40
2660026	2x1.5	7.4	10.4	170	85
2660034	3x0.75	6.5	9.3	140	40
2660036	3x1.5	7.8	10.8	190	45
2660044	4x0.75	7.1	10.1	160	40
2660046	4x1.5	8.5	11.5	215	50
2660074	7x0.75	8.4	11.4	210	50
2660076	7x1.5	10.2	13.4	300	55
2660124	12x0.75	10.8	14.0	305	60
2660126	12x1.5	13.3	17.1	485	70
2660194	19x0.75	12.7	16.5	445	70
2660196	19x1.5	15.7	19.7	650	80
2660244	24x0.75	14.7	18.7	545	75
2660246	24x1.5	18.3	22.5	805	90
2660274	27x0.75	15.0	19.0	575	80
2660276	27x1.5	18.7	22.9	860	95
2660374	37x0.75	16.8	21.0	715	85
2660376	37x1.5	21.0	25.5	1,075	155

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
Core identification: see page 21.**3. SCREEN:**

Aluminium/polyester tape with drain wire.

4. OUTER SHEATH:

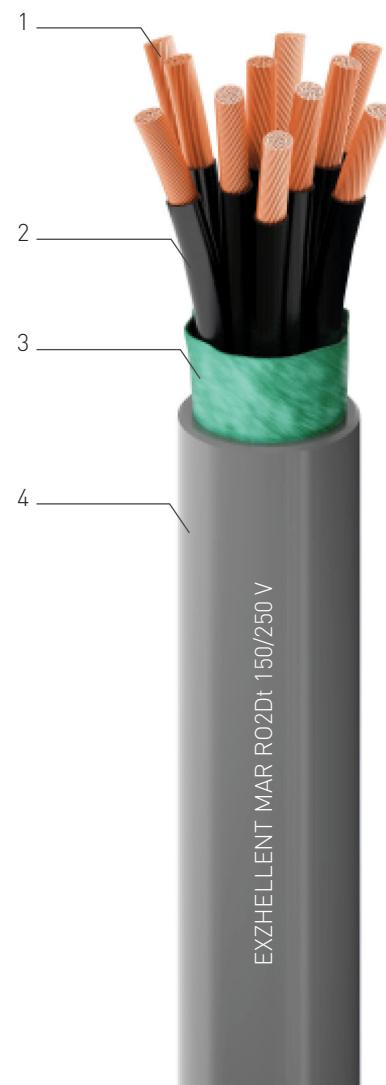
Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible overall screened multicore cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2658024	2x0.75	6.4	65	30
2658026	2x1.5	7.6	95	30
2658034	3x0.75	6.8	75	55
2658036	3x1.5	8.0	110	65
2658044	4x0.75	7.3	85	60
2658046	4x1.5	9.0	135	75
2658074	7x0.75	8.5	120	70
2658076	7x1.5	10.5	190	85
2658124	12x0.75	11.2	190	90
2658126	12x1.5	13.8	305	115
2658194	19x0.75	13.2	270	105
2658196	19x1.5	16.4	440	135
2658244	24x0.75	15.4	340	125
2658246	24x1.5	19.2	555	155
2658274	27x0.75	15.8	370	130
2658276	27x1.5	19.6	605	160
2658374	37x0.75	17.7	480	145
2658376	37x1.5	22.1	795	180

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
Core identification: see page 21.**3. SCREEN:**

Aluminium/polyester tape with drain wire.

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible overall screened multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4098014	1x2x0.75	6.4	65	30	0.086	0.635
4098016	1x2x1.5	7.6	95	30	0.095	0.612
4098024	2x2x0.75	7.3	85	30	0.056	0.635
4098026	2x2x1.5	9.0	135	40	0.060	0.612
4098034	3x2x0.75	9.7	130	60	0.060	0.635
4098036	3x2x1.5	11.9	205	75	0.063	0.612
4098044	4x2x0.75	10.5	150	45	0.060	0.635
4098046	4x2x1.5	13.0	240	55	0.063	0.612
4098074	7x2x0.75	13.2	240	55	0.060	0.635
4098076	7x2x1.5	16.4	385	70	0.063	0.612
4098124	12x2x0.75	16.4	375	135	0.060	0.635
4098126	12x2x1.5	20.6	620	165	0.063	0.612
4098194	19x2x0.75	20.1	570	80	0.060	0.635
4098196	19x2x1.5	21.3	675	130	0.063	0.612
4098244	24x2x0.75	22.4	710	90	0.060	0.635
4098246	24x2x1.5	28.2	1,175	230	0.063	0.612
4098274	27x2x0.75	23.3	780	95	0.060	0.635
4098276	27x2x1.5	29.3	1,295	235	0.063	0.612
4098374	37x2x0.75	25.8	1,020	155	0.060	0.635
4098376	37x2x1.5	32.7	1,720	265	0.063	0.612

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

3. INDIVIDUAL SCREEN:Aluminium/polyester tape with copper drain wire and non metallic tape.
Core identification: see page 21.**4. OUTER SHEATH:**

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible individually screened multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4099024	1x2x0.75	10.4	145	45	0.086	0.635
4099026	1x2x1.5	12.7	220	55	0.095	0.612
4099034	2x2x0.75	11.0	160	45	0.086	0.635
4099036	2x2x1.5	13.5	235	55	0.095	0.612
4099044	3x2x0.75	12.2	195	50	0.086	0.635
4099046	3x2x1.5	14.8	295	60	0.095	0.612
4099074	4x2x0.75	14.6	300	60	0.086	0.635
4099076	4x2x1.5	18.2	480	75	0.095	0.612
4099124	7x2x0.75	19.6	510	80	0.086	0.635
4099126	7x2x1.5	24.5	810	100	0.095	0.612
4099194	12x2x0.75	23.4	760	95	0.086	0.635
4099196	12x2x1.5	29.2	1,210	175	0.095	0.612
4099244	19x2x0.75	27.7	985	170	0.086	0.635
4099246	19x2x1.5	34.5	1,565	210	0.095	0.612
4099274	24x2x0.75	28.3	1,075	170	0.086	0.635
4099276	24x2x1.5	35.3	1,715	215	0.095	0.612
4099374	27x2x0.75	31.9	1,420	195	0.086	0.635
4099376	27x2x1.5	40.0	2,290	240	0.095	0.612

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
Core identification: see page 21.**3. SCREEN/ARMOUR:**

Copper wire braid.

4. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4100014	1x2x0.75	4.5	7.3	80	45	0.086	0.635
4100016	1x2x1.5	5.7	8.7	115	55	0.095	0.612
4100024	2x2x0.75	5.4	8.2	110	50	0.056	0.635
4100026	2x2x1.5	6.9	9.9	155	60	0.060	0.612
4100034	3x2x0.75	7.5	10.7	160	65	0.060	0.635
4100036	3x2x1.5	9.5	12.7	225	80	0.063	0.612
4100044	4x2x0.75	8.3	11.5	185	70	0.060	0.635
4100046	4x2x1.5	10.6	14.4	305	90	0.063	0.612
4100074	7x2x0.75	10.8	14.6	310	90	0.060	0.635
4100076	7x2x1.5	13.8	17.8	460	110	0.063	0.612
4100124	12x2x0.75	13.7	17.7	450	110	0.060	0.635
4100126	12x2x1.5	17.6	22	700	135	0.063	0.612
4100194	19x2x0.75	17.1	21.3	645	130	0.060	0.635
4100196	19x2x1.5	21.9	27.0	1,015	160	0.063	0.612
4100244	24x2x0.75	19.2	24.0	795	145	0.060	0.635
4100246	24x2x1.5	24.6	30.0	1,250	180	0.063	0.612
4100274	27x2x0.75	20.0	25.0	860	150	0.060	0.635
4100276	27x2x1.5	25.7	31.0	1,370	185	0.063	0.612
4100374	37x2x0.75	22.4	27.0	1,100	165	0.060	0.635
4100376	37x2x1.5	28.7	35.0	1,860	210	0.063	0.612

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-360 / IEC 60092-376
FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
 IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
 Core identification: see page 21.

3. INNER COVERING:

Halogen-free thermoplastic polyolefin.

4. SCREEN/ARMOUR:

Copper wire braid.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4101014	1x2x0.75	6.9	9.8	150	59	0.076	0.672
4101016	1x2x1.5	7.7	10.8	190	65	0.095	0.612
4101024	1x4x0.75	7.9	11.0	180	66	0.051	0.672
4101026	1x4x1.5	8.9	12.0	230	72	0.060	0.612
4101034	3x2x0.75	9.9	13.2	240	80	0.056	0.672
4101036	3x2x1.5	11.3	14.6	310	88	0.063	0.612
4101044	4x2x0.75	10.8	14.2	280	85	0.056	0.672
4101046	4x2x1.5	12.4	16.3	405	98	0.063	0.612
4101074	7x2x0.75	13.6	17.5	435	110	0.056	0.672
4101076	7x2x1.5	15.6	19.7	595	120	0.063	0.612
4101124	12x2x0.75	16.8	20.9	620	130	0.056	0.672
4101126	12x2x1.5	19.4	23.9	880	145	0.063	0.612
4101194	19x2x0.75	20.5	24.8	865	150	0.056	0.672
4101196	19x2x1.5	23.7	28.4	1,250	175	0.063	0.612
4101244	24x2x0.75	22.8	27.5	1,055	170	0.056	0.672
4101246	24x2x1.5	26.8	31.9	1,560	195	0.063	0.612
4101274	27x2x0.75	23.7	28.4	1,140	175	0.056	0.672
4101276	27x2x1.5	27.9	33.0	1,695	200	0.063	0.612
4101374	37x2x0.75	26.3	31.2	1,425	190	0.056	0.672
4101376	37x2x1.5	30.9	36.8	2,245	225	0.063	0.612

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

3. INDIVIDUAL SCREEN:Aluminium/polyester tape with copper drain wire.
Core identification: see page 21.**4. ARMOUR:**

Copper wire braid.

5. OUTER SHEATH:

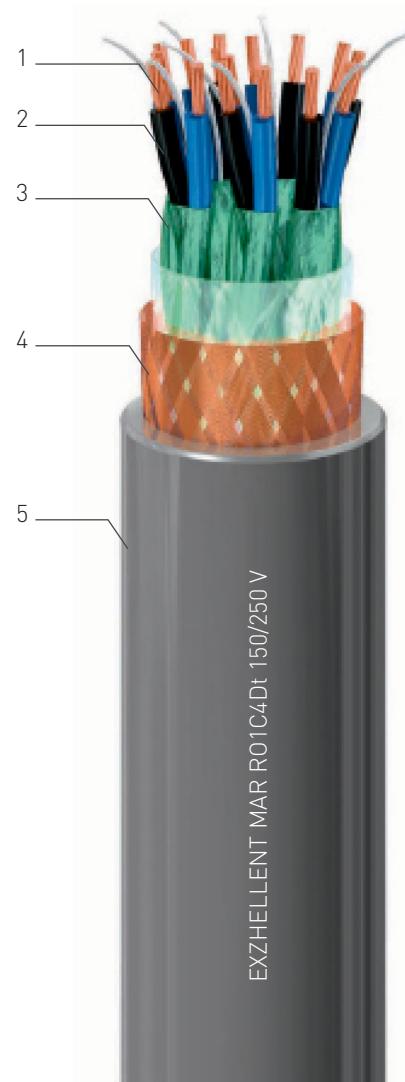
Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured individually screened multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4102014	1x2x0.75	4.6	7.4	90	45	0.086	0.635
4102016	1x2x1.5	5.8	8.8	125	75	0.095	0.612
4102024	2x2x0.75	8.4	11.6	185	70	0.086	0.635
4102026	2x2x1.5	10.5	14.3	295	90	0.095	0.612
4102034	3x2x0.75	9.0	12.2	200	75	0.086	0.635
4102036	3x2x1.5	11.3	15.1	320	95	0.095	0.612
4102044	4x2x0.75	10.1	13.3	240	80	0.086	0.635
4102046	4x2x1.5	12.6	16.4	380	100	0.095	0.612
4102074	7x2x0.75	12.4	16.2	390	100	0.086	0.635
4102076	7x2x1.5	15.6	19.6	565	120	0.095	0.612
4102124	12x2x0.75	17.1	21.3	610	130	0.086	0.635
4102126	12x2x1.5	21.5	26.0	910	160	0.095	0.612
4102194	19x2x0.75	20.6	25.0	860	150	0.086	0.635
4102196	19x2x1.5	26.0	31.0	1,305	185	0.095	0.612
4102244	24x2x0.75	24.5	29.0	1,070	175	0.086	0.635
4102246	24x2x1.5	30.9	36.0	1,645	290	0.095	0.612
4102274	27x2x0.75	25.1	30.0	1,240	180	0.086	0.635
4102276	27x2x1.5	31.7	37.0	1,790	225	0.095	0.612
4102374	37x2x0.75	28.5	34.0	1,515	205	0.086	0.635
4102376	37x2x1.5	36.2	42.0	2,525	340	0.095	0.612

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. INDIVIDUAL SCREEN:

Aluminium/polyester tape with copper drain wire.

Core identification: see page 21.

4. INNER COVERING:

Halogen-free thermoplastic polyolefin.

5. ARMOUR:

Copper wire braid.

6. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured multipair cables for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Mutual Capacitance (μF/km)	Inductance (mH/km)
4104014	1x2x0.75	6.6	9.4	150	60	0.086	0.635
4104016	1x2x1.5	7.8	10.8	200	90	0.095	0.612
4104024	2x2x0.75	10.2	13.4	265	80	0.086	0.635
4104026	2x2x1.5	12.3	16.1	395	100	0.095	0.612
4104034	3x2x0.75	10.8	14.0	280	85	0.086	0.635
4104036	3x2x1.5	13.1	16.9	425	105	0.095	0.612
4104044	4x2x0.75	11.9	15.1	330	90	0.086	0.635
4104046	4x2x1.5	14.5	18.3	500	110	0.095	0.612
4104074	7x2x0.75	14.2	18.0	505	110	0.086	0.635
4104076	7x2x1.5	17.4	21.4	715	130	0.095	0.612
4104124	12x2x0.75	18.9	23.1	775	140	0.086	0.635
4104126	12x2x1.5	23.3	27.9	1,140	170	0.095	0.612
4104194	19x2x0.75	22.4	26.8	1,075	165	0.086	0.635
4104196	19x2x1.5	27.8	32.6	1,600	200	0.095	0.612
4104244	24x2x0.75	26.3	30.9	1,340	185	0.086	0.635
4104246	24x2x1.5	33.1	38.3	2,060	310	0.095	0.612
4104274	27x2x0.75	26.9	31.7	1,520	190	0.086	0.635
4104276	27x2x1.5	33.9	39.1	2,220	235	0.095	0.612
4104374	37x2x0.75	30.3	35.3	1,845	215	0.086	0.635
4104376	37x2x1.5	38.4	44.4	2,985	355	0.095	0.612

¹⁾Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Tinned Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross-linked compound, type HF90. IEC 60092-360.

Core identification: Green-Yellow, for earthing wire.

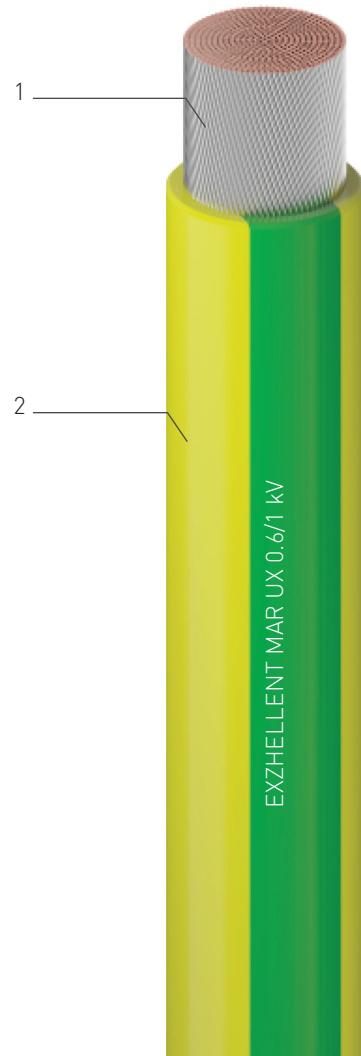
APPLICATIONS:

Flexible switchboard and earthing wire for installation in marine applications with special performances on flame spread and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.

SWITCHBOARD WIRE COLORS:

PHYSICAL & ELECTRICAL CHARACTERISTICS:**PACKAGING IN DRUMS**

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)
7503106	1x1.5	2.9	20	12	20	24.30
7503107	1x2.5	3.4	30	14	28	14.60
7503108	1x4	3.8	44	16	37	9.08
7503109	1x6	4.5	63	18	47	6.080
7503110	1x10	5.4	105	22	65	3.530
7503111	1x16	6.3	155	26	87	2.270
7503112	1x25	8.0	245	32	117	1.660
7503113	1x35	9.1	335	37	147	1.070
7503114	1x50	10.8	475	43	180	0.770
7503115	1x70	12.7	670	51	233	0.564
7503116	1x95	14.2	860	57	285	0.444
7503117	1x120	16.4	1,105	66	333	0.362
7503118	1x150	18.3	1,390	74	386	0.306
7503119	1x185	20.2	1,685	81	444	0.264
7503120	1x240	23.6	2,230	95	528	0.217
7503121	1x300	26.1	2,800	160	612	0.187

PACKAGING IN REELS

General Cable Code	Cross section (mm ²)	Available lengths
7504106	1x1.5	100 or 200 m
7504107	1x2.5	100 or 200 m

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60331-1 and 2 / IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**Copper, class 2 up to 1 mm² and class 5 from 1.5 mm² to IEC 60228.**2. MICA TAPE****3. INSULATION:**

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

4. INNER COVERING:

Halogen-free thermoplastic polyolefin (optional for big cross sections).

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Cables for installation in marine applications with special performances on flame spread, fire resistance and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7789105	1x1	5.4	40	25	-	32.14	0.484
7789106	1x1.5	5.6	45	25	20	23.65	0.455
7789107	1x2.5	5.9	60	25	28	13.24	0.436
7789108	1x4	6.5	75	30	37	8.872	0.386
7789109	1x6	7.1	95	30	47	5.948	0.361
7789110	1x10	8.0	140	35	65	3.483	0.331
7789111	1x16	9.2	200	40	87	2.240	0.314
7789112	1x25	10.9	290	45	117	1.477	0.302
7789113	1x35	12.2	390	50	147	1.074	0.292
7789114	1x50	13.8	530	55	180	0.774	0.283
7789115	1x70	16.1	745	65	233	0.570	0.274
7789116	1x95	17.7	945	75	285	0.450	0.265
7789117	1x120	19.9	1,200	80	333	0.370	0.261
7789118	1x150	21.9	1,485	90	386	0.313	0.261
7789119	1x185	24.0	1,790	100	444	0.272	0.260
7789120	1x240	27.8	2,380	170	528	0.226	0.258
7789121	1x300	31.2	2,955	190	612	0.195	0.251
7789205	2x1	8.8	105	35	-	32.11	0.399
7789206	2x1.5	9.3	120	40	23	23.62	0.373
7789207	2x2.5	10.2	150	45	31	14.21	0.344
7789208	2x4	11.2	195	45	43	8.850	0.319
7789209	2x6	12.5	255	50	55	5.929	0.300
7789210	2x10	14.4	370	60	75	3.466	0.279
7789211	2x16	16.6	525	70	100	2.224	0.265
7789212	2x25	20.1	785	80	130	1.464	0.262
7789213	2x35	22.5	1,040	90	161	1.061	0.253
7789214	2x50	23.0	1,270	95	196	0.764	0.251
7789215	2x70	26.5	1,730	160	251	0.560	0.245
7789216	2x95	29.2	2,205	175	306	0.442	0.239
7789217	2x120	32.7	2,790	200	357	0.362	0.236
7789218	2x150	36.2	3,455	220	412	0.305	0.237
7789219	2x185	39.4	4,140	240	472	0.265	0.238
7789220	2x240	44.9	5,470	270	558	0.218	0.233

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A-km)	Inductance (mH/km)
7789305	3x1	9.5	125	40	-	32.11	0.399
7789305*	2x1+1	9.5	125	40	-	32.11	0.399
7789306	3x1.5	9.9	140	40	20	23.62	0.373
7789306*	2x1.5+1.5	9.9	140	40	23	23.62	0.373
7789307	3x2.5	10.8	180	45	28	14.21	0.344
7789307*	2x2.5+2.5	10.8	180	45	31	14.21	0.344
7789308	3x4	12.1	240	50	37	8.850	0.319
7789308*	2x4+4	12.1	240	50	43	8.850	0.319
7789309	3x6	13.3	310	55	47	5.929	0.300
7789309*	2x6+6	13.3	310	55	55	5.929	0.300
7789310	3x10	15.6	470	65	65	3.466	0.279
7789310*	2x10+10	15.6	470	65	75	3.466	0.279
7789311	3x16	17.7	665	75	87	2.224	0.265
7789311*	2x16+16	17.7	665	75	100	2.224	0.265
7789312	3x25	21.7	1,005	90	110	1.464	0.262
7789313	3x35	24.3	1,340	100	137	1.061	0.253
7789314	3x50	27.0	1,685	165	167	0.764	0.251
7789315	3x70	31.1	2,305	190	214	0.560	0.245
7789316	3x95	34.5	2,970	210	259	0.442	0.239
7789317	3x120	38.6	3,750	235	301	0.362	0.236
7789318	3x150	42.7	4,650	260	347	0.305	0.237
7789319	3x185	46.5	5,575	280	397	0.265	0.238
7789320	3x240	53.7	7,395	325	468	0.219	0.237
7789321	3x300	60.0	9,230	360	540	0.188	0.230
7789405	4x1	10.4	145	45	-	32.11	0.399
7789405*	3x1+1	10.4	145	45	-	32.11	0.399
7789406	4x1.5	10.8	160	45	20	23.62	0.373
7789406*	3x1.5+1.5	10.8	160	45	20	23.62	0.373
7789407	4x2.5	11.8	210	50	28	14.21	0.344

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E [Multicore cable] or F [Single core cable].

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7789407*	3x2.5+2.5	11.8	210	50	28	14.21	0.344
7789408	4x4	13.3	290	55	37	8.850	0.319
7789408*	3x4+4	13.3	290	55	37	8.850	0.319
7789409	4x6	14.6	380	60	47	5.929	0.300
7789409*	3x6+6	14.6	380	60	47	5.929	0.300
7789410	4x10	17.1	585	70	65	3.466	0.279
7789410*	3x10+10	17.1	585	70	65	3.466	0.279
7789411	4x16	19.8	845	80	87	2.224	0.265
7789411*	3x16+16	19.8	845	80	87	2.224	0.265
7789412	4x25	24.2	1,280	100	110	1.464	0.262
7789413	4x35	27.0	1,710	165	137	1.061	0.253
7789414	4x50	29.6	2,235	180	167	0.764	0.251
7789415	4x70	34.6	3,110	210	214	0.560	0.245
7789416	4x95	38.1	3,980	230	259	0.442	0.239
7789417	4x120	42.8	5,055	260	301	0.362	0.236
7789418	4x150	47.2	6,235	285	347	0.305	0.237
7789419	4x185	51.5	7,510	310	397	0.265	0.238
7789420	4x240	58.9	9,960	355	468	0.218	0.233
7789421	4x300	66.8	12,470	405	540	0.188	0.230
7789505*	4x1+1	11.4	175	50	-	32.11	0.399
7789506*	4x1.5+1.5	11.9	200	50	20	23.62	0.373
7789507*	4x2.5+2.5	13.2	270	55	28	14.21	0.344
7789508*	4x4+4	14.7	360	60	37	8.850	0.319
7789509*	4x6+6	16.4	480	65	47	5.929	0.300
7789510*	4x10+10	19.1	730	80	65	3.466	0.279
7789511*	4x16+16	22.1	1,055	90	87	2.224	0.265
7789512*	4x25+25	26.8	1,580	165	110	1.464	0.262
7789513*	4x35+35	30.1	2,130	185	137	1.061	0.253
7789514*	4x50+50	35.3	2,990	215	167	0.764	0.252

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method F (Single core cable).

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60331-1 and 2 / IEC 60332-1-2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**Copper, class 2 up to 1 mm² and class 5 from 1.5 mm² to IEC 60228.**2. MICA TAPE****3. INSULATION:**

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

4. INNER COVERING:

Halogen-free thermoplastic polyolefin.

5. ARMOUR:

Copper wire braid.

6. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Armoured cables for installation in marine applications with special performances on flame spread, fire resistance and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7790105	1x1	5.4	8.2	105	35	-	32.17	0.568
7790106	1x1.5	5.6	8.4	110	35	20	23.67	0.537
7790107	1x2.5	6.0	8.8	125	35	28	14.26	0.495
7790108	1x4	6.5	9.3	150	40	37	8.895	0.458
7790109	1x6	7.1	10.1	180	40	47	5.972	0.432
7790110	1x10	8.0	11.0	235	45	65	3.504	0.395
7790111	1x16	9.0	12.0	300	50	87	2.258	0.367
7790112	1x25	10.7	13.9	415	55	117	1.493	0.351
7790113	1x35	11.8	15.0	520	60	147	1.088	0.334
7790114	1x50	13.4	17.2	725	70	180	0.789	0.327
7790115	1x70	15.5	19.5	965	80	233	0.582	0.312
7790116	1x95	17.1	21.1	1,190	85	285	0.462	0.300
7790117	1x120	19.1	23.3	1,470	95	333	0.380	0.292
7790118	1x150	20.9	25.3	1,780	155	386	0.322	0.289
7790119	1x185	22.8	27.2	2,100	165	444	0.280	0.285
7790120	1x240	26.4	31.0	2,735	190	528	0.233	0.280
7790121	1x300	29.8	34.6	3,370	210	612	0.202	0.272
7790205	2x1	8.8	11.8	205	50	-	32.11	0.399
7790206	2x1.5	9.1	12.1	220	50	23	23.62	0.373
7790207	2x2.5	10.0	13.2	270	55	31	14.21	0.344
7790208	2x4	11.0	14.2	325	60	43	8.850	0.319
7790209	2x6	12.1	15.3	390	125	55	5.929	0.300
7790210	2x10	14.0	17.8	570	75	75	3.466	0.279
7790211	2x16	16.0	20.0	755	80	100	2.224	0.265
7790212	2x25	19.3	23.5	1,055	95	130	1.464	0.262
7790213	2x35	21.5	25.9	1,340	160	161	1.061	0.253
7790214	2x50	21.4	26.0	1,550	160	196	0.764	0.251
7790215	2x70	24.9	29.9	2,085	180	251	0.560	0.245
7790216	2x95	27.8	33.0	2,630	200	306	0.442	0.239
7790217	2x120	31.1	36.9	3,345	225	357	0.362	0.236
7790218	2x150	34.2	40.4	4,065	245	412	0.305	0.237
7790219	2x185	37.6	44.0	4,850	265	472	0.265	0.238
7790220	2x240	42.7	49.5	6,275	300	558	0.218	0.233

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7790305	3x1	9.3	12.3	205	50	-	32.11	0.399
7790305*	2x1+1	9.3	12.3	205	50	-	32.11	0.399
7790306	3x1.5	9.7	12.7	220	55	20	23.62	0.373
7790306*	2x1.5+1.5	9.7	12.7	220	55	23	23.62	0.373
7790307	3x2.5	10.6	13.8	285	55	28	14.21	0.344
7790307*	2x2.5+2.5	10.6	13.8	285	55	31	14.21	0.344
7790308	3x4	11.7	14.9	370	60	37	8.850	0.319
7790308*	2x4+4	11.7	14.9	370	60	43	8.850	0.319
7790309	3x6	12.9	16.7	500	70	47	5.929	0.300
7790309*	2x6+6	12.9	16.7	500	70	55	5.929	0.300
7790310	3x10	15.0	19.0	690	80	65	3.466	0.279
7790310*	2x10+10	15.0	19.0	690	80	75	3.466	0.279
7790311	3x16	17.1	21.1	905	85	87	2.224	0.265
7790311*	2x16+16	17.1	21.1	905	85	100	2.224	0.265
7790312	3x25	20.7	25.1	1,300	205	110	1.464	0.262
7790313	3x35	23.1	27.7	1,665	170	137	1.061	0.253
7790314	3x50	25.4	30.2	2,030	185	167	0.764	0.251
7790315	3x70	29.9	34.9	2,755	210	214	0.560	0.245
7790316	3x95	32.9	38.7	3,555	235	259	0.442	0.239
7790317	3x120	36.8	42.8	4,405	260	301	0.362	0.236
7790318	3x150	40.9	47.3	5,415	285	347	0.305	0.237
7790319	3x185	44.5	51.3	6,435	310	397	0.265	0.238
7790320	3x240	51.0	58.2	8,405	350	468	0.218	0.233
7790321	3x300	57.2	64.8	10,355	390	540	0.188	0.228
7790405	4x1	10.2	13.4	245	80	-	32.11	0.399
7790405*	3x1+1	10.2	13.4	245	80	-	32.11	0.399
7790406	4x1.5	10.6	13.8	285	55	20	23.62	0.373
7790406*	3x1.5+1.5	10.6	13.8	285	55	20	23.62	0.373
7790407	4x2.5	11.6	14.8	335	60	28	14.21	0.344

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7790407*	3x2.5+2.5	11.6	14.8	335	60	28	14.21	0.344
7790408	4x4	12.9	16.7	475	70	37	8.850	0.319
7790408*	3x4+4	12.9	16.7	475	70	37	8.850	0.319
7790409	4x6	14.2	18.0	585	75	47	5.929	0.300
7790409*	3x6+6	14.2	18.0	585	75	47	5.929	0.300
7790410	4x10	16.5	20.5	820	85	65	3.466	0.279
7790410*	3x10+10	16.5	20.5	820	85	65	3.466	0.279
7790411	4x16	19.0	23.2	1,110	95	87	2.224	0.265
7790411*	3x16+16	19.0	23.2	1,110	95	87	2.224	0.265
7790412	4x25	23.0	27.4	1,585	165	110	1.464	0.262
7790413	4x35	25.6	30.4	2,065	185	137	1.061	0.253
7790414	4x50	28.4	33.4	2,665	200	167	0.764	0.251
7790415	4x70	33.0	38.4	3,610	230	214	0.560	0.245
7790416	4x95	36.3	42.3	4,625	255	259	0.442	0.239
7790417	4x120	41.0	47.4	5,825	285	301	0.362	0.236
7790418	4x150	45.2	52.0	7,105	315	347	0.305	0.237
7790419	4x185	49.5	56.7	8,515	340	397	0.265	0.238
7790420	4x240	56.3	63.9	11,075	385	468	0.218	0.233
7790421	4x300	63.8	71.8	13,730	435	540	0.188	0.230
7790505	4x1+1	11.2	14.4	305	60	9	32.11	0.399
7790506	4x1.5+1.5	11.7	14.9	335	60	20	23.62	0.373
7790507	4x2.5+2.5	12.8	16.6	450	70	28	14.21	0.344
7790508	4x4+4	14.3	18.1	560	75	37	8.850	0.319
7790509	4x6+6	15.8	19.8	705	80	47	5.929	0.300
7790510	4x10+10	18.3	22.5	990	135	65	3.466	0.279
7790511	4x16+16	21.1	25.5	1,350	155	87	2.224	0.265
7790512	4x25+25	25.6	30.2	1,940	185	110	1.464	0.262
7790513	4x35+35	28.5	33.5	2,530	205	137	1.061	0.253
7790514	4x50+50	33.5	38.7	3,455	235	167	0.763	0.249

* These codes contain "Green/Yellow" earthing conductor. Please state the construction under "CROSS SECTION" column when ordering this type of cable.

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable) or F (Single core cable).

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-353 / IEC 60092-360**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60331-1 and 2 / IEC 60332-3-22**CONSTRUCTION:****1. CONDUCTOR:**

Copper, class 5 to IEC 60228.

2. MICA TAPE**3. INSULATION:**Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
Core identification: see page 21.**4. OUTER SHEATH:**

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage fire-resistant control cables for integrity circuits in marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



GENFIRE MAR RDt-M 0.6/1 kV

PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2661075	7x1	12.4	215	50
2661076	7x1.5	13.2	250	55
2661077	7x2.5	14.4	330	60
2661125	12x1	16.8	355	70
2661126	12x1.5	17.5	400	70
2661127	12x2.5	19.5	550	80
2661195	19x1	19.9	510	80
2661196	19x1.5	20.8	580	85
2661197	19x2.5	23.1	800	95
2661245	24x1	23.4	655	95
2661246	24x1.5	24.7	765	100
2661247	24x2.5	27.4	1,045	165
2661275	27x1	23.9	700	100
2661276	27x1.5	25.2	815	155
2661277	27x2.5	28.0	1,125	170
2661375	37x1	27.0	910	165
2661376	37x1.5	28.4	1,065	175
2661377	37x2.5	31.6	1,475	190

¹⁾Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2

IEC 60331-1 and 2 / IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**

Copper, class 5 to IEC 60228.

2. MICA TAPE**3. INSULATION:**

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

4. ARMOUR/SCREEN:

Copper wire braid.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Screened multicore cables for installation in marine applications with special performances on flame spread, fire resistance and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)
2663024	2x0.75	5.1	8.1	90	50
2663026	2x1.5	6.2	9.2	120	55
2663034	3x0.75	5.5	8.5	105	55
2663036	3x1.5	6.7	9.7	140	60
2663044	4x0.75	6.1	9.1	125	55
2663046	4x1.5	7.5	10.7	170	65
2663074	7x0.75	7.6	10.8	175	65
2663076	7x1.5	9.4	12.6	245	80
2663124	12x0.75	10.4	14.2	300	85
2663126	12x1.5	12.8	16.8	425	105
2663194	19x0.75	12.5	16.5	415	100
2663196	19x1.5	15.4	19.6	595	120
2663244	24x0.75	14.9	19.1	510	115
2663246	24x1.5	18.4	22.8	740	140
2663274	27x0.75	15.3	19.5	550	120
2663276	27x1.5	18.9	23.3	800	140
2663374	37x0.75	17.4	21.8	700	130
2663376	37x1.5	21.4	26.0	1,030	160

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:**CONSTRUCTION:** IEC 60092-350 / IEC 60092-360 / IEC 60092-376**FIRE PERFORMANCE:** IEC 60754-1 / IEC 60754-2 / IEC 61034-2

IEC 60331-1 and 2 / IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**Copper, class 2 up to 1 mm² and class 5 from 1.5 mm² to IEC 60228.**2. MICA TAPE****3. INSULATION:**

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

4. ARMOUR/SCREEN:

Copper wire braid.

5. OUTER SHEATH:

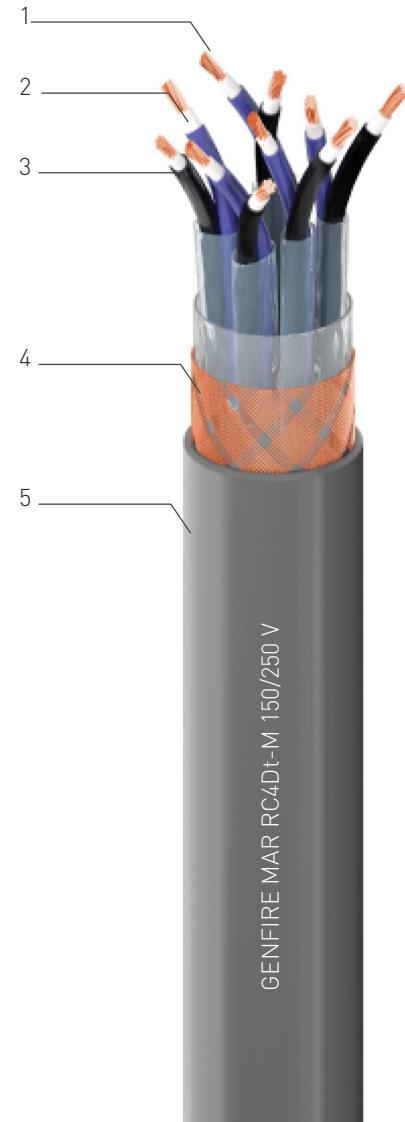
Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS

Overall screened multipair cables for installation in marine applications with special performances on flame spread, fire resistance and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

PAIRS

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
4046014	1x2x0.75	5.6	8.6	105	55	0.065	0.721
4103016	1x2x1.5	6.4	9.4	125	60	0.079	0.658
4046024	2x2x0.75	6.7	9.9	145	60	0.046	0.721
4103026	2x2x1.5	7.7	11.5	210	70	0.053	0.658
4046034	3x2x0.75	9.3	12.5	195	75	0.052	0.721
4103036	3x2x1.5	10.6	14.4	285	90	0.058	0.658
4046044	4x2x0.75	10.4	14.2	265	85	0.052	0.721
4103046	4x2x1.5	11.6	15.6	355	95	0.057	0.665
4046074	7x2x0.75	13.6	17.6	395	105	0.052	0.721
4103076	7x2x1.5	15.5	19.7	520	120	0.058	0.658
4046124	12x2x0.75	17.3	21.5	580	130	0.052	0.721
4103126	12x2x1.5	19.7	24.3	790	150	0.058	0.658
4046194	19x2x0.75	21.5	26.1	835	160	0.052	0.721
4103196	19x2x1.5	24.5	29.5	1,155	180	0.058	0.658
4046244	24x2x0.75	24.2	29.0	1,015	175	0.052	0.721
4103246	24x2x1.5	27.6	33.4	1,495	200	0.058	0.658
4046274	27x2x0.75	25.2	30.2	1,120	185	0.052	0.721
4103276	27x2x1.5	28.8	34.6	1,630	210	0.058	0.658
4046374	37x2x0.75	28.2	33.4	1,425	200	0.052	0.721
4103376	37x2x1.5	32.2	38.4	2,105	230	0.058	0.658

¹⁾Dimensional values subject to variation depending on manufacturing tolerances.

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-360 / IEC 60092-376

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22

**CONSTRUCTION:****1. CONDUCTOR:**

Copper class 2 up to 1 mm² and class 5 from 1.5 mm² to IEC 60228.

2. MICA TAPE**3. INSULATION:**

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

4. INDIVIDUAL SCREEN:

Aluminium/polyester tape with copper drain wire.

Core identification: see page 21.

5. ARMOUR:

Copper wire braid.

6. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Flexible armoured individually screened multipair cables for installation in marine applications with special performances on flame spread, fire resistant and low emission of smoke and fumes.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:**PAIRS**

General Cable Code	Cross section (mm ²)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Voltage drop cos μ = 0.8 (V/A-km)	Inductance (mH/km)
4113016	1x2x1.5	6.6	9.7	140	78	0.078	0.6618
4043014	1x2x0.75	6.0	9.1	120	55	0.064	0.7256
4043015	1x2x1	6.4	9.5	130	57	0.071	0.6887
4043024	2x2x0.75	10.4	13.8	240	83	0.064	0.7256
4043025	2x2x1	11.2	14.5	270	87	0.071	0.6887
4113026	2x2x1.5	11.8	15.7	340	95	0.078	0.6618
4043034	3x2x0.75	11.2	14.5	245	88	0.064	0.7256
4043035	3x2x1	12.0	15.9	325	96	0.071	0.6887
4113036	3x2x1.5	12.7	16.8	360	105	0.078	0.6618
4043044	4x2x0.75	12.5	16.5	335	99	0.064	0.7256
4043045	4x2x1	13.4	17.3	385	105	0.071	0.6887
4113046	4x2x1.5	14.2	18.3	430	110	0.078	0.6618
4043074	7x2x0.75	15.5	19.6	485	120	0.064	0.7256
4043075	7x2x1	16.6	20.7	565	125	0.071	0.6887
4113076	7x2x1.5	17.5	21.8	635	135	0.078	0.6618
4043124	12x2x0.75	21.3	25.8	760	210	0.064	0.7256
4043125	12x2x1	22.8	27.3	895	220	0.071	0.6887
4113126	12x2x1.5	24.2	29.1	1,025	175	0.078	0.6618
4043194	19x2x0.75	25.8	30.4	1,075	185	0.064	0.7256
4043195	19x2x1	27.6	32.5	1,300	195	0.071	0.6887
4113196	19x2x1.5	29.2	34.5	1,475	210	0.078	0.6618
4043244	24x2x0.75	30.7	35.8	1,355	215	0.064	0.7256
4043245	24x2x1	32.8	38.1	1,635	230	0.071	0.6887
4113246	24x2x1.5	34.7	40.4	1,855	325	0.078	0.6618
4043274	27x2x0.75	31.4	36.6	1,470	220	0.064	0.7256
4043275	27x2x1	33.6	38.9	1,775	235	0.071	0.6887
4113276	27x2x1.5	35.6	41.7	2,115	255	0.078	0.6618
4043375	37x2x1	38.2	44.3	2,350	270	0.071	0.6887
4113376	37x2x1.5	41.9	48.4	2,990	390	0.082	0.6489

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

EXZHELLENT MAR®

RO2C4Dt-VFD Variable Frequency Drives Screened Low Voltage Power
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.

Core identification: see page 21.

3. THREE DISTRIBUTED EARTHING CORES:

Copper class 5 to IEC 60228.

Halogen-free cross-linked polyethylene (XLPE). IEC 60092-360.

4. SCREEN:

Copper/polyester tape plus copper wire braid.

VFD compliant with IEEE 1580.

5. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage power cables for variable frequency drives (VFD) in marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



PHYSICAL & ELECTRICAL CHARACTERISTICS:

General Cable Code	Cross section (mm ²)	Diameter under armour (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7792314	3x50/3x10	27.6	32.7	2,285	200	167	0.759	0.235
7792315	3x70/3x16	31.8	37.2	3,115	225	214	0.556	0.232
7792316	3x95/3x16	35.2	41.0	3,830	250	259	0.438	0.227
7792317	3x120/3x25	39.2	45.0	4,835	270	301	0.358	0.226
7792318	3x150/3x25	42.2	48.6	5,800	295	347	0.302	0.228
7792319	3x185/3x35	45.4	52.2	7,030	315	397	0.262	0.229
7792320	3x240/3x50	52.6	59.8	9,260	360	468	0.215	0.226
7792321	3x300/3x50	60.3	68.1	11,290	410	540	0.186	0.223

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4. Method E [Multicore cable].

EXZHELLENT MAR®

R02C4DtZbDt-VFD Variable Frequency Drives Armoured
and Screened Low Voltage Power
0.6/1 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-353 / IEC 60092-360

FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 5 to IEC 60228.

2. INSULATION:

Halogen-free cross linked polyethylene (XLPE). IEC 60092-360.
Core identification: see page 21.

3. THREE DISTRIBUTED EARTHING CORES:

Copper class 5 to IEC 60228.
Halogen-free cross-linked polyethylene (XLPE). IEC 60092-360.

4. SCREEN:

Copper/polyester tape plus copper wire braid.
VFD compliant with IEEE 1580.

5. INNER COVERING:

Halogen-free thermoplastic polyolefin.

6. ARMOUR:

Bronze wire braid.

7. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Low voltage power cables for variable frequency drives (VFD) in marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



General Cable Code	Cross section (mm ²)	Diameter under screen ¹⁾ (mm)	Diameter under armour ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Bending radius ¹⁾ (mm)	Current rating Air 45°C ²⁾ (A)	Voltage drop cos μ = 0.8 (V/A·km)	Inductance (mH/km)
7793314	3x50/3x10	27.6	31.3	36.5	2,750	295	167	0.759	0.235
7793315	3x70/3x16	31.8	35.4	41.4	3,735	335	214	0.556	0.232
7793316	3x95/3x16	35.2	39.2	45.6	4,550	365	259	0.438	0.227
7793317	3x120/3x25	39.3	43.3	49.7	5,630	400	301	0.358	0.226
7793318	3x150/3x25	42.2	46.6	53.4	6,680	430	347	0.302	0.228
7793319	3x185/3x35	45.4	49.8	56.8	7,940	455	397	0.262	0.229
7793320	3x240/3x50	52.6	57.4	65.0	10,395	520	468	0.215	0.226
7793321	3x300/3x50	60.5	68.3	76.5	13,175	615	540	0.186	0.223

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

EXZHELLENT MAR®

DHDt02C4Dt-VFD Variable Frequency Drives Screened
Medium Voltage Power
3.6/6 kV - 6/10 kV

STANDARDS:

CONSTRUCTION: IEC 60092-350 / IEC 60092-354 / IEC 60092-360
FIRE PERFORMANCE: IEC 60754-1 / IEC 60754-2 / IEC 61034-2
 IEC 60332-1-2 / IEC 60332-3-22



CONSTRUCTION:

1. CONDUCTOR:

Copper class 5 to IEC 60228.

2. INNER SEMICONDUCTOR**3. INSULATION:**

High modulus ethylene-propylene rubber (HEPR). IEC 60092-360.

4. OUTER SEMICONDUCTOR:

Core identification: see page 21.

5. METALLIC SCREEN: OVER INSULATION:

Copper tape.

6. THREE DISTRIBUTED EARTHING CORES:

Copper class 5 to IEC 60228.

Ethylene-propylene rubber (EPR). IEC 60092-360.

7. INNER COVERING:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

8. SCREEN:

Copper/polyester tape plus wire braid. VFD performance.

9. OUTER SHEATH:

Halogen-free thermoplastic polyolefin (SHF 1). IEC 60092-360.

APPLICATIONS:

Medium voltage power cables for variable frequency drives (VFD) in marine applications. With special fire performance such as halogen-free, fire retardancy, and low emission of smoke and fumes.

Maximum rated conductor temperature in normal operation: 90 °C.

Minimum handling & laying temperature: -15 °C.

Minimum working temperature: -40 °C.



EXZHELLENT MAR®

DHDt02C4Dt-VFD Variable Frequency Drives Screened Medium Voltage Power
3.6/6 kV - 6/10 kV

PHYSICAL & ELECTRICAL CHARACTERISTICS:

3.6/6 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under screen ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductance (mH/km)	Capacitance (μF/km)
7867314	3x50+3x10	15.3	37.3	43.5	3,685	158	0.118	0.327
7867315	3x70+3x16	16.9	41.0	47.6	4,635	203	0.112	0.375
7867316	3x95+3x16	18.6	44.8	51.6	5,620	246	0.105	0.425
7867317	3x120+3x25	20.3	49.0	56.0	6,915	285	0.099	0.473
7867318	3x150+3x25	21.6	52.0	59.4	7,850	329	0.095	0.512
7867319	3x185+3x50	23.2	55.6	63.2	9,410	377	0.091	0.558
7867320	3x240+3x50	25.6	61.0	69.0	11,905	444	0.088	0.601

6/10 kV

General Cable Code	Cross section (mm ²)	Diameter over insulation ¹⁾ (mm)	Diameter under screen ¹⁾ (mm)	Outer diameter ¹⁾ (mm)	Weight ¹⁾ (kg/km)	Current rating Air 45°C ²⁾ (A)	Inductance (mH/km)	Capacitance (μF/km)
7868314	3x50+3x10	17.1	41.4	48.0	4,090	158	0.112	0.257
7868315	3x70+3x16	18.7	45.1	51.9	5,045	203	0.106	0.292
7868316	3x95+3x16	20.4	49.3	56.5	6,140	246	0.101	0.329
7868317	3x120+3x25	22.1	53.0	60.4	7,410	285	0.097	0.365
7868318	3x150+3x25	23.4	56.0	63.6	8,345	329	0.093	0.394
7868319	3x185+3x50	25.0	59.6	67.4	9,930	377	0.089	0.428
7868320	3x240+3x50	27.2	64.6	72.8	12,200	444	0.087	0.475

¹⁾ Dimensional values subject to variation depending on manufacturing tolerances.

²⁾ Current ratings according to IEC 60092-352 Annex A Table A.4, Method E (Multicore cable).

Current ratings 5 % lower than the tabulated values (Note 2 of point A.1 of IEC 60092-352).



ENERGY

Markets: Transmission, Distribution, Generation
Products: Underground Cable, Substation Cable, Overhead Conductor & Cable



RENEWABLE ENERGY

Markets: Solar, Hydro, Wind
Products: Panel Wire, Cu & AL PV Wire, Tower Wire & Cable, Collection System Cable, Industrial Cable, Utility Cable



CONSTRUCTION

Markets: Residential, Commercial, Institutional
Products: Building Wire, Portable Cord, Industrial Cable



INDUSTRIAL

Markets: Food & Beverage, Automation, Water/Wastewater, Pulp & Paper
Products: Control Cable, Instrumentation Cable, Power Cable, Automation Cable, Portable & Temporary Power Cord, Solar Cable



TELCO

Markets: Independent Telephone Operating Companies (ITOCs), Regional Bell Operating Companies (RBOCs)
Products: Air Core Cable, Filled Core Cable, Wire Products, Central Office Cable, Optical Cable, Indoor/Outdoor Telephone Cable, Drop wire Cable



ENTERPRISE & COMMUNICATIONS

Markets: Commercial/Residential Buildings, Data Centers, Education, Finance, Federal/Government, Healthcare, Broadcast & AV, Manufacturing
Products: Datacom Cable, Fiber Optic Cable, Broadcast & AV Products, Electronics Cable, Telecommunications Cable



OIL, GAS & PETROCHEMICAL

Markets: Upstream, Downstream, Midstream
Products: Offshore Cable, Subsea Cable, Onshore Cable



MARINE

Markets: Shipyards building, Ships & Other floating vessels
Products: Power, Control Instrumentation & Communication Cables



NUCLEAR

Markets: Nuclear Power Plants
Products: Power, Instrumentation, Control



MINING

Markets: Surface, Underground
Products: Portable & Trailing Mining Cable, Mine Power Feeder Cable, Industrial Cable



TRANSPORTATION

Markets: Automotive, Agricultural Equipment, Rail & Transit, Heavy Duty & Industrial Trucks, Bus
Products: Rolling Stock Cable, Signalling Cable, On-Vehicle Data Communications, Control & Power Wire and Cable, Ignition Wire Sets & Coil-on-Plug, Battery Cable, Bulk Ignition Wire & Primary Wire, Electric Vehicle (EV) Products, Wire Harnesses and Assemblies



MILITARY

Markets: On Land, At Sea, In the Air
Products: Communications Wire & Cable (Cu & Fiber), Shore to Ship Power Cable, Wire Harnesses & Assemblies

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