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PT VOKSEL ELECTRIC Tbk.

FIBER OPTIC
CABLE



INTRODUCTION

In the era of global telecommunication, we come to rely on light again as communication media. Optical fiber cable which opto-electronic is applied a means of transmitting in optical communication system.

This tinny thun glass fiber of approximately 10 mm in diameter could carry more information across longer distance than well-known metallic copper cable. For special purpose, a very long distance could be covered with optical fibers without any repeater.

The glass fiber consists of core and jacket which are made from very high grade pure silicon dioxide. Subject to this benefit, the fiber tensile strength s string and the light will be dopped to provide specific internal refractive index.

Optical fiber cable become more popular also in the subscriber network due to dynamic demand of communication. They are not applicable only for telephone, fax, and television but high speed computer data will be as well transferred over data highways across the entire universe.

PT. Voksel Electric Tbk, headquartered in Jakarta, is one of the indonesia's premier manufacturer of the cables used by the power generation and telecommunication industries. Since 1975 Voksel benefited from an early alliance formed with Showa Electric, Wire & Cable Co.Ltd. of Japan, through which Voksel had technical assistance, as well, as support for its own Research and Development efforts. For futher development, since 1989, that relationship became a joint venture company.

To take advantage of new marketing opportunities and to maintain its competitive edge in a fast-growing industrial sector. Voksel has vertically intergrated its operations.

The company manufacturers bare copper and aluminum conductor, low voltage and medium voltage power cables and telecommunication cables. It also

For various purpose and conditions, the optical fiber cables and designed for buried in the ground and duct, hung in air and laid down in the ocean.

Product Quality is Our Concern

PT Voksel Electric Tbk committed product quality to be the primary manner of its all facets of the company, Optical parameter is tested for all optical fiber cables covering incoming material, intermediate inspection and final inspection by applying a high quality testing equipment and operated by well-trained operators in order to meet costumer's requirement and our commitment to ISO 9000 series of Quality Management System.

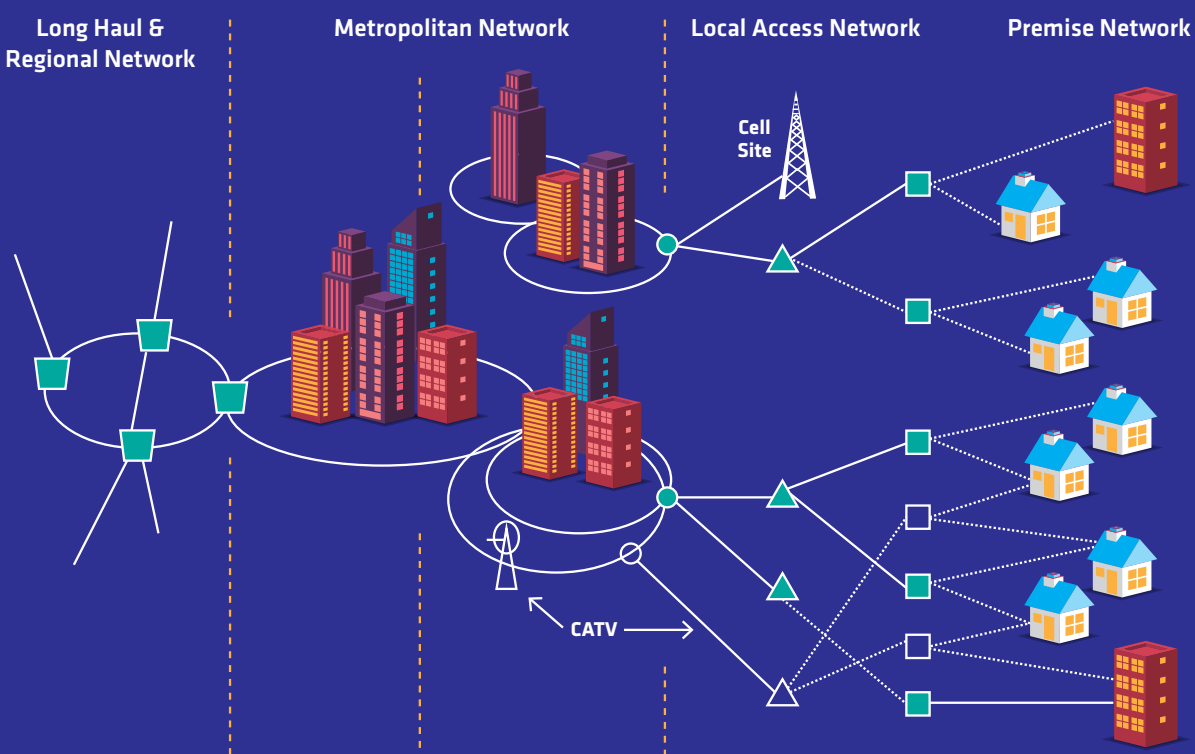
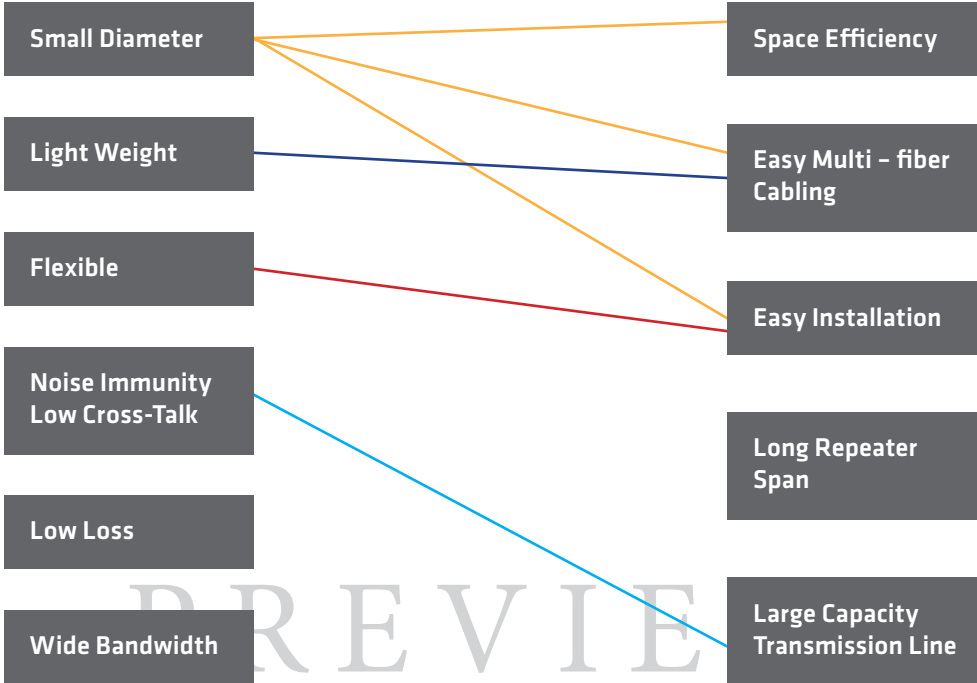


manufactures copper and aluminium wire rod essential for its production of cables. Voksel committed to be the leading edge of Technology in the manufacturing and design of a wide variety of the cables.

In present, Voksel has developed his product range by manufacturing and designing optical fiber cables.

In recognition of the quality management standards in place of its manufacturing plants at Cakung (North Jakarta) and cileungsi (West Java). PT. Voksel Electric Tbk, was awarded ISO 9002 certification by SGS. Yarsley International Certification Service Ltd. In 1995.

ADVANTAGES OF OPTICAL FIBER



TEST EQUIPMENT

MECHANICAL TEST



■ Impact



■ Repeated Bending



■ Torsion



■ Tensile Strength



■ Crush

ELECTRICAL TEST



■ OTDR
(Optical Time Domain Reflectometer)



■ CD & PMD Test

PREVIEW

OPTICAL FIBER CABLE

The number of fiber in a cable varies from 4 to 96 (more number of fibers are provided upon request). Optical fiber cables will generally undergo 4 processes of production line such as Coloring Line, secondary Coating Line, SZ- stranding Line and Sheathing Line.

- **Coloring Production Line:**

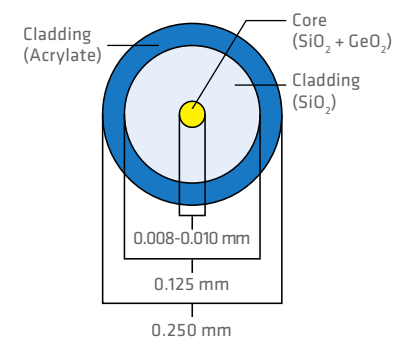
Fiber Coloring Process is carried out to mark the fiber. For easy identification of individual fiber inside the tubes, they are color coded. The colors have no influence on the optical properties of the fibers. The fiber are colored using UV ink which are chosen as industry standard, easily in stripping, jointing and stability of optical loss under various stress.
- **Secondary Coating Production Line:**

This process uses Polybutylene Terephthalate (PBTP) as tube material which extremely has good thermal, hydrolysis and mechanical properties. The tubes contain fibers and are filled with special typical gel. Secondary coating or tubing process is used to protect the optical fibers during cabling and installation process.
- **SZ- Stranding Production line:**

Stranding process which is around polyethelene coated central strength member applies SZ- Stranding Method. The stranding is filled with jelly as Flooding Compound to fill any space of the cable to block the flow of water into the cable.
- **Sheathing Production Line:**

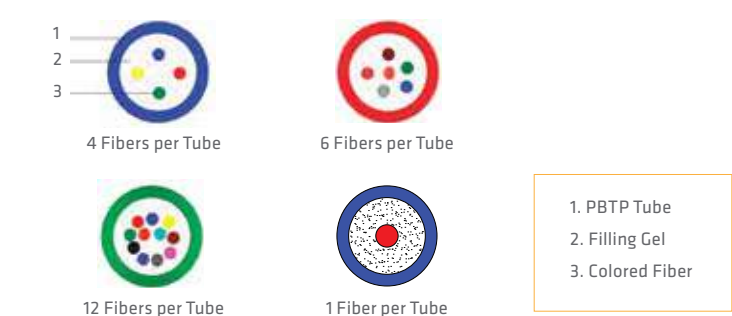
Sheathing line is an unit which its process protects the optical cable core from mechanical, thermal and chemical effects, associated with storage, installation and operation. The core covering is covered with laminated Aluminium Polyethelene (LAP) sheath containing carbon black, to provide an electrical ground and moisture barrier. Sheathing also uses armouring wire or tape between inner and outer sheath to provide a mechanical protection on direct buried cable. The sheath is usually over printed to identify the type of cable of a particular point.

OPTICAL FIBER DESIGN



Each fiber is made of high purity Silica (SiO₂) Glass doped with Germanium (GeO₂) and fused (SiO₂) depressed cladding design for excellent geometrical properties for splicing and micro bending resistance. This fiber core is protected by two layers of UV-cured acrylate coating which is strong and durable enough to stand up to the challenge such as; micro bending losses, abrasion resistance, etc but remain easy to strip and splice.

BASIC CABLE DESIGN



The cable core consists of stranded - six or eight thermal plastic elements with a central strength member. Elements could be either tubes, filler rods.

The coloured Polybutylene Terephthalate (PBTP) tube contains 4, 6, or 12 coloured fibers with its configuration (table 1 and 2) and water blocking compound to prevent moisture/water penetration and axial migration.

Now, there is cable core consists of stranded - twelve thermal plastic elements with a central strength member. Elements could be either tubes, filler rods, and Polybutylene Terephthalate (PBTP) tube contains 1 fibers.

THE CHARACTERISTIC OF OPTICAL FIBER CABLE

Optical Fiber No.	Color of Fiber
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Turquoise

Table 1. Color Scheme of Optical Fibers

Tube No.	Color of Tube
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Turquoise

Table 2. Color Scheme of PBTP Tubes

Table 3. Optical Characteristic of G.652D, G655C, G657A

Characteristic	Value	Unit
Fiber Type	Single Mode	-
Mode Field Dia. At 1310 nm	9 to 10 ± 10%	µm
Mode Field Concentricity Error	< 1	µm
Cladding Diameter	125 ± 2	µm
Cladding non Circularity	< 2	%
Coating Diameter	250 ± 15	µm
Maximum Attenuation at 1310 nm	0.4	dB/km
Maximum Attenuation at 1550 nm	0.3	dB/km
Maximum Chromatic dispersion at 1310 nm	3.5	Ps/(nm.Km)
Maximum Chromatic dispersion at 1550 nm	18	Ps/(nm.Km)
Min. Bending Radius at full Tensile Strength	20 x cable OD	-
Maximum Cut Off Wavelength at 1310 nm (λ _{cc})	1260	nm
Zero Dispersion Wavelength (λ _o)	1300 – 1324	nm
Zero Dispersion Slope (S _o)	≤ 0.095	Ps/(nm ² .Km)

Table 4. Environment condition

Item	Value	Unit
Operating Temperature	10 - 50	°C
Operating Relative Humidity	20 - 100	%
Storage Tempertature	10 - 70	°C
Storage Relative Humidity	20-95	%

OPTICAL FIBER CABLE
ADSS TYPE



TYPICAL SPECIFICATION



This is optical cable ADSS type (All Dielectric Self Supporting) with Aramid Yarn for peripheral strength member. This cable must have non-metallic and high tensile strength. This cable used as Aerial Application, anti rodent, anti ballistic, anti termite cable whenever mechanical strength, anti electrical induction and lighting effect. Outer jacket use PE Sheath for 110 - 120 kV, while above 120 kV use Anti Tracking PE sheath.

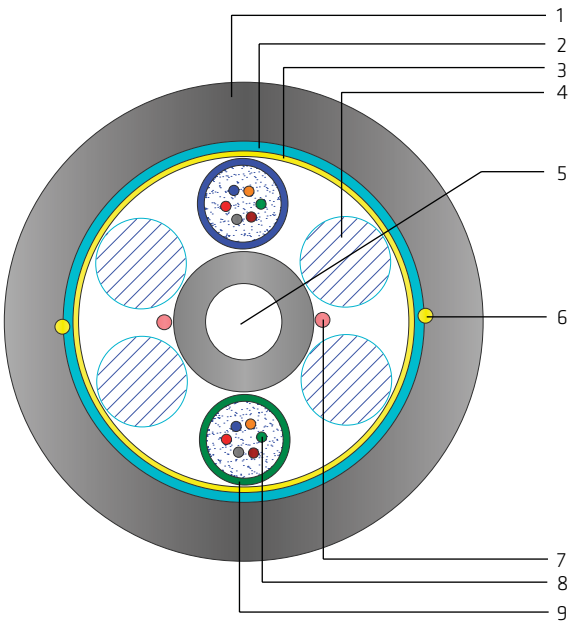
For Aerial Installation,
Dry Core Technology
(All Dielectric Self Supporting)

Fiber Type	G652 A ~ D
	G653 A & B
	G654 A ~ C
	G655 A ~ E
Cable Size	4 ~ 264 Cores
Standard	ITU-T G Series
	IEC 60793/IEC 60794
	IEC 60304
	IEC 60587
	Telecordia GR-20

Item	Number of Fiber			
	4 - 16	6 - 36	24 - 72	60 - 96
Fiber Number per Lose Tube	4 - 6	6 - 12	6 - 12	12
Max. Cable outer Diameter ADSS Span 100 (mm)	12	14	14	16
Max. Cable outer Diameter ADSS Span 400 (mm) (mm)	13	15	16	19
Max. Cable outer Diameter ADSS Span 600 (mm) (mm)	13	15	16	19
Max. Cable outer Diameter ADSS Span 900 (mm) (mm)	15	16	18	22
Max. Cable outer Diameter ADSS Span 1200 (mm) (mm)	20	21	-	-

Property	Number of Fiber				Unit
	4 - 16	6 - 36	24 - 72	60 - 96	
Tensile Strength span 100	> 3000	> 3000	> 3000	> 5000	N
Tensile Strength span 400	> 11.000	> 11.000	> 11.000	> 14.000	N
Tensile Strength span 600	> 15.000	> 15.000	> 15.000	> 17.000	N
Tensile Strength span 900	> 24.000	> 24.000	> 24.000	> 26.000	N
Tensile Strength span 1200	> 29.000	> 29.000	-	-	N
Crush Resistance	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	KN/100mm
Max. Weight span 100	± 110	± 119	± 145	± 190	Kg/km
Max. Weight span 400	± 125	± 148	± 168	± 214	Kg/km
Max. Weight span 600	± 135	± 159	± 179	± 225	Kg/km
Max. Weight span 900	± 197	± 226	± 258	± 360	Kg/km
Max. Weight span 1200	± 258	± 286	-	-	Kg/km
Min. Bending span 100	260	300	300	350	mm
Min. Bending span 400	280	320	340	400	mm
Min. Bending span 600	280	320	340	400	mm
Min. Bending span 900	320	360	380	460	mm
Min. Bending span 1200	420	440	-	-	mm
Temperature					
Storage :	- 40 to +70	- 40 to +70	- 40 to +70	40 to +70	°C
Installation :	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	
Operating :	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	

Property	Value	Unit
Proof Test	> 0.5	%
Additional Loss	< 0.1	dB
Radius	30	mm
Number of Turn	100	-

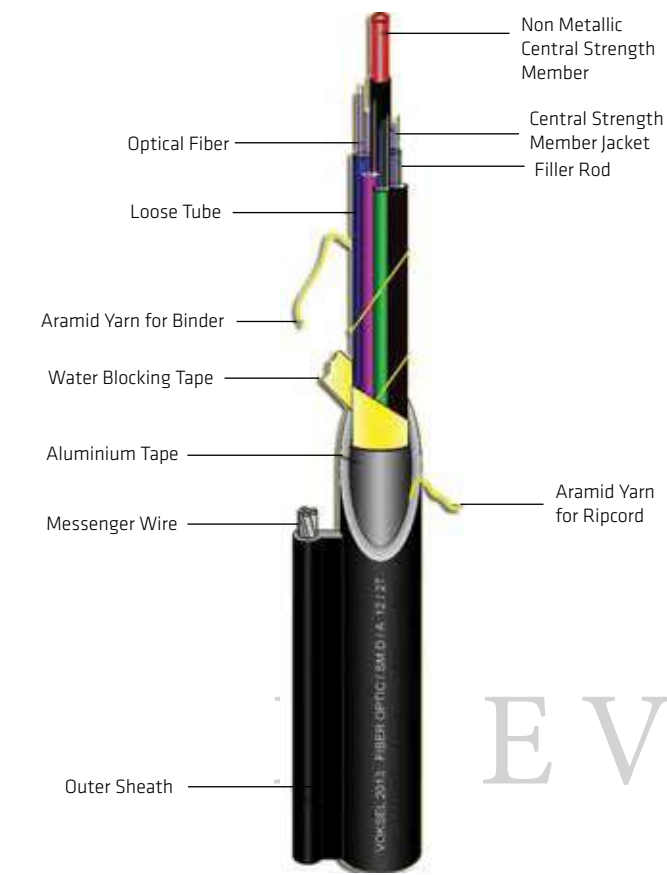


1. HDPE Anti Tracking sheath
2. Water Blocking Tape
3. Peripheral strength member (Aramid Yarn)
4. Filler Rod
5. Non Metallic Central Strength Member (GRP + PE coated)
6. Ripcord
7. Water Blocking Yarn (for dry technology) or jelly filling
8. Single mode color code optical fiber
9. Gel filed PBTP color coded tube

OPTICAL FIBER CABLE
FOR AERIAL INSTALLATION



TYPICAL SPECIFICATION



This is optical fiber cable integrated with a messenger wire for aerial installation. This cable is loose tube core , use peripheral high strength yarn as strength member and use black UV PE Sheath on outer jacket. If armoring is necessary to prevent damage by rodents, insects, and shot guns, a corrugated Steel Tape can applied.

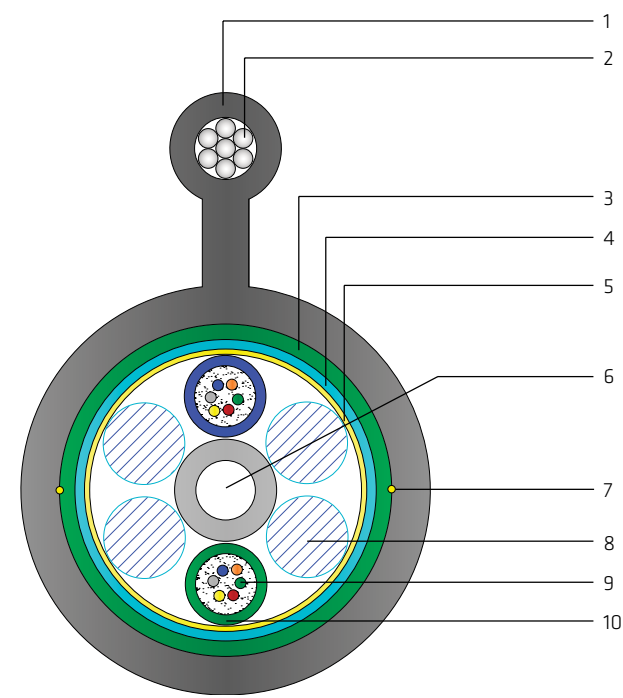
- Fiber Type**
G652 A ~ D
G653 A & B
G654 A ~ C
G655 A ~ E
- Cable Size**
4 ~ 264 Cores
- Standard**
ITU-T G Series
IEC 60793/IEC 60794
IEC 60304
STEL K-017-2009 ver. 2.0

Item	Number of Fiber			
	4 - 16	6 - 36	24 - 72	60 - 96
Fiber Number per Loose Tube	4 - 6	6 - 12	6 - 12	12
Max. Cable Outer Diameter (mm)	13	14	17	18

Mechanical Characteristic

Property	Number of Fiber					Unit
	4-16	18-36	48	60-72	84-96	
Tensile strength	> 2850	> 2850	> 2850	> 2850	> 2850	N
Crush Resistant	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	KN/100mm
Max. Weight	± 228	± 310	± 312	± 320	± 400	Kg/Km
Min. Bending	250	270	300	300	300	mm
Temperature Storage :	- 40 to +70	- 40 to +70	- 40 to +70	40 to +70	40 to +70	°C
Installation :	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	
Operating :	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	

Characteristic	Value	Unit
Proof Test	1	%
Additional Loss	< 0.1	dB
Radius	30	mm
Number of Turn	100	-



1. HDPE sheath
2. Steel wire messenger
3. Laminated Aluminum Polyethylene type
4. Water Blocking Tape
5. Peripheral strength member (Aramid Yarn).
6. Non Metallic Central Strength Member (GRP + PE coated)
7. Ripcord
8. Filler Rod
9. Single mode color code optical fiber
10. Gel filed PBTP color coded tube

OPTICAL FIBER FOR
DIRECT BURIED INSTALLATION



This is optical fiber cable integrated with a corrugated steel tape, double steel tape or steel wire armoring for protection. This cable is loose tube core. This cables use loose tube core. This cable can used as direct buried, anti ballistic, anti rodent, anti termite cable whenever mechanical strength is required. If a flame retardant characteristic is required, a special material can be applied as the sheath.

For Direct Buried Installation

Fiber Type	G652 A ~ D
	G653 A & B
	G654 A ~ C
	G655 A ~ E
Cable Size	4 ~ 264 Cores
Standard	ITU-T G Series
	IEC 60793/IEC 60794
	IEC 60304
	STEL K-016-2009 ver. 2.0

TYPICAL SPECIFICATION

Item	Number of Fiber			
	4 - 16	6 - 36	24 - 72	60 - 96
Fiber Number per Loose Tube	4 - 6	6 - 12	6 - 12	12
Max. Cable Outer Diameter (mm)	22	23	26	27

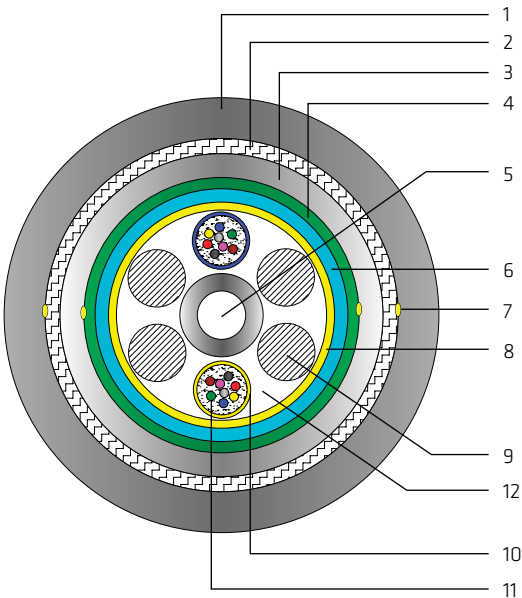
Item	Number of Fiber			
	144	216	240	264
Fiber Number per Loose Tube	12	12	12	12
Max. Cable Outer Diameter (mm)	31	31	31	33

Mechanical Characteristic

Property	Number of Fiber					Unit
	4-16	18-36	48	60-72	84-96	
Tensile Strength	> 3000	> 3000	> 3000	> 3000	> 3000	N
Crush Resistance	≥ 5,5	≥ 5,5	≥ 5,5	≥ 5,5	≥ 5,5	KN/100mm
Min. Bending	466	488	554	576	664	mm

Property	Number of Fiber					Unit
	120	144	216	240	264	
Tensile Strength	> 3000	> 3000	> 3000	> 3000	> 3000	N
Crush Resistance	≥ 5,5	≥ 5,5	≥ 5,5	≥ 5,5	≥ 5,5	KN/100mm
Min. Bending	664	664	664	664	708	mm
Temperature Storage :	- 40 to +70	- 40 to +70	- 40 to +70	40 to +70	40 to +70	°C
Installation :	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	
Operating :	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	

Characteristic	Value	Unit
Proof Test	1	%
Additional Loss	< 0.1	dB
Radius	30	mm
Number of Turn	100	-



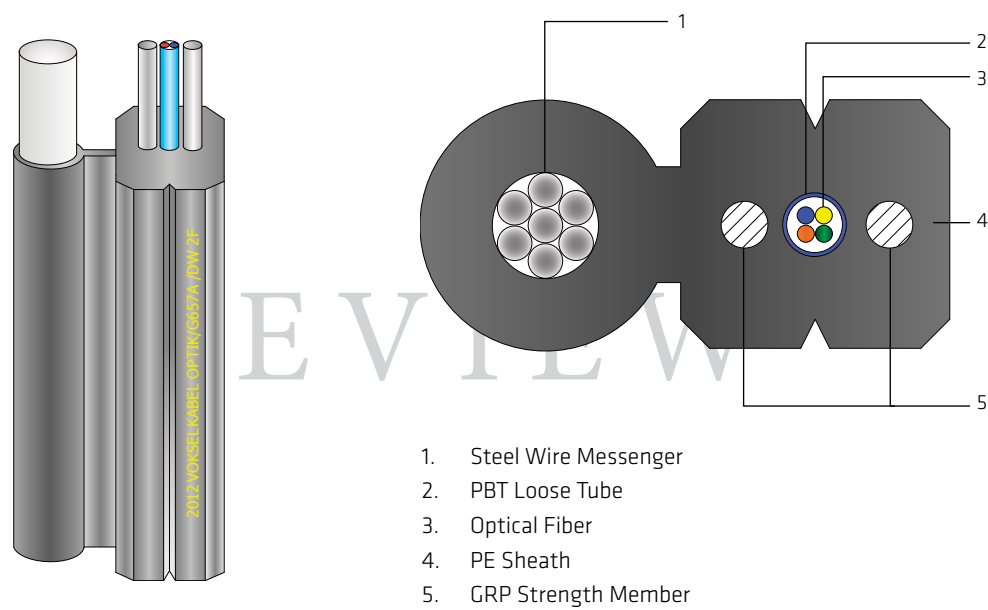
- 1. HDPE sheath
- 2. Armouring
- 3. MDPE inner sheath
- 4. Laminated Aluminum Polyethylene type
- 5. Non metallic central strength member (GRP+PE coated)
- 6. Water Blocking Tape
- 7. Ripcord
- 8. Peripheral strength member (Aramid Yarn).
- 9. Filler Rod
- 10. Gel filed PBTP color coded tube
- 11. Single mode color code optical fiber
- 12. Material Water Blocking (Jelly Compound or Water Blocking Yarn)

OPTICAL FIBER CABLE FOR DROP AND BURIAL CABLE FTTH (FIBER TO THE HOME) INSTALLATION

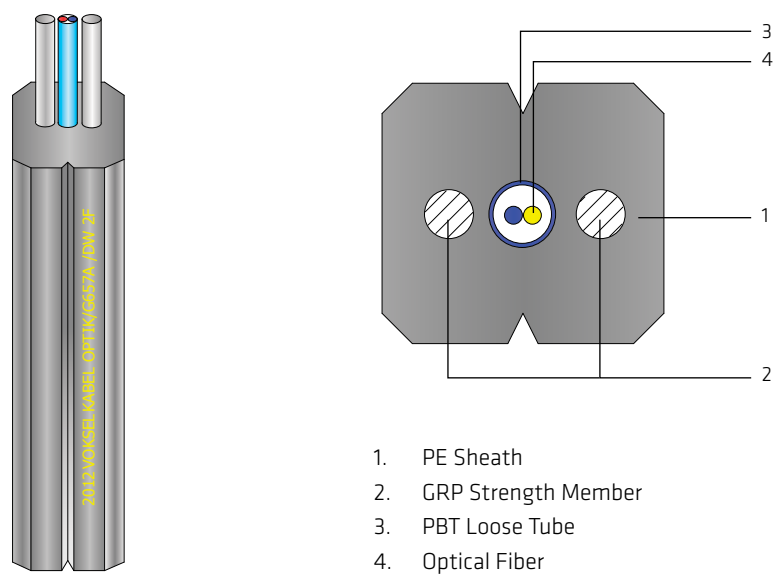


Drop Aerial and Burial cable being made to accommodate FTTH system telecommunication industry as for wiring from terrestrial to Ethernet system. Designed to short distance span with easy connection from end – user to nearby fiber access terminal. This cable consist of 1 up to 4 fiber core with to FRP in both inside to avoid shrieked in its cable jacketing. Cable Burial usually use in building.

CONSTRUCTION DROP AERIAL CABLE



CONSTRUCTION DROP BURIAL CABLE



TYPICAL SPECIFICATION

Type Specification Drop Aerial Cable

Item	Number of Fiber		
	1	2	4
Max. Cable Height (mm)	5 – 5.5	5 – 5.5	5-5.5
Max. Cable Width (mm)	2 - 2.5	2 - 2.5	2 – 2.5

Type Specification Single Drop Burial Cable

Item	Number of Fiber		
	1	2	4
Max. Cable Height (mm)	3 - 3.5	3 - 3.5	3 - 3.5
Max. Cable Width (mm)	2 - 2.5	2 - 2.5	2 – 2.5

Mechanical Characteristic

Fiber Count	Number of Fiber			Unit
	1	2	4	
Tensile Strength	> 130	> 130	> 130	N
Crush Resistance	≥ 0.3	≥ 0.3	≥ 0.3	kg
Max. Weight	± 10	± 10	± 38	Kg/Km
Min. Bending	20 X OD	20 X OD	20 X OD	mm

Characteristic	Value	Unit
Proof Test	1	%
Additional Loss	< 0.1	dB
Radius	15	mm

OPTICAL FIBER FOR
DUCT INSTALLATION



TYPICAL SPECIFICATION

Item	Number of Fiber			
	4 - 16	6 - 36	24 - 72	60 - 96
Fiber Number per Loose Tube	4 - 6	6 -12	6 - 12	12
Max. Cable Outer Diameter (mm)	13.5	14	14	16

Item	Number of Fiber			
	144	216	264	288
Fiber Number per Loose Tube	12	12	12	12
Max. Cable Outer Diameter (mm)	22	22	22	24

Mechanical Characteristic

Fiber Count	Number of Fiber					Unit
	4-16	18-36	48	60-72	84-96	
Tensile strength	> 2850	> 2850	> 2850	> 2850	> 2850	N
Crush Resistance	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	KN/100mm
Max.Weight	± 180	± 180	± 180	± 240	± 260	Kg/Km
Min.Bending	250	270	300	300	300	mm

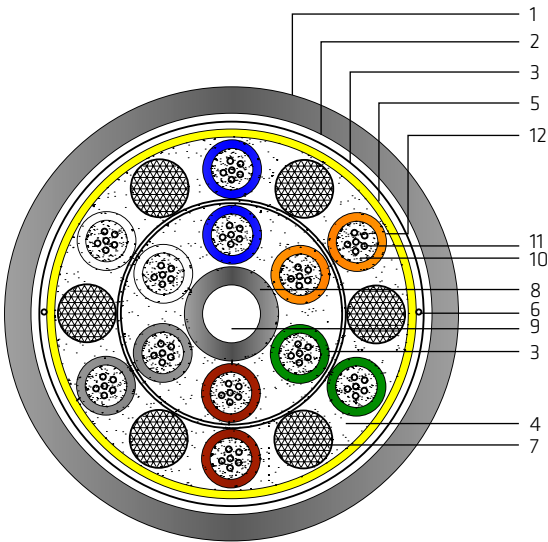
Fiber Count	Number of Fiber				Unit
	144	216	264	288	
Tensile strength	> 2850	> 2850	> 2850	> 2850	N
Crush Resistance	≥ 4,5	≥ 4,5	≥ 4,5	≥ 4,5	KN/100mm
Max.Weight	± 340	± 340	± 340	± 360	Kg/Km
Min.Bending	330	330	330	360	mm
Temperature					
Storage :	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	°C
Installation :	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	
Operating	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	

Characteristic	Value	Unit
Proof Test	1	%
Additional Loss	< 0.1	dB
Radius	30	mm
Number of Turn	100	-

The duct optical fiber cable is with loose tube core, it is quite suitable to the system requiring more optical cable fibers. The fibers are accommodated in jelly filled tube with an excess length.

Fiber Type	G652 A ~ D
	G653 A & B
	G654 A ~ C
	G655 A ~ E
Cable Size	4 ~ 288 Cores
Standard	STEL QA - K - 015- 2009

PREVIEW



- 1. PE Sheath
- 2. Laminated Aluminium Polyethelene Tape
- 3. Water Blocking Tape
- 4. Material Water Blocking (Water Blocking Swallable Yarn or Jelly Compound)
- 5. Poly aramid Yarn (Optional)
- 6. Rip Cord
- 7. Filler Rod
- 8. PE Strength Member Jacket
- 9. Central Strength Member (Glass Reinforced Plastic or Steel Wire)
- 10. Gel Filled PBTP Color Coded Tube
- 11. Single Mode Coded Optical Fiber
- 12. PBTP Tube

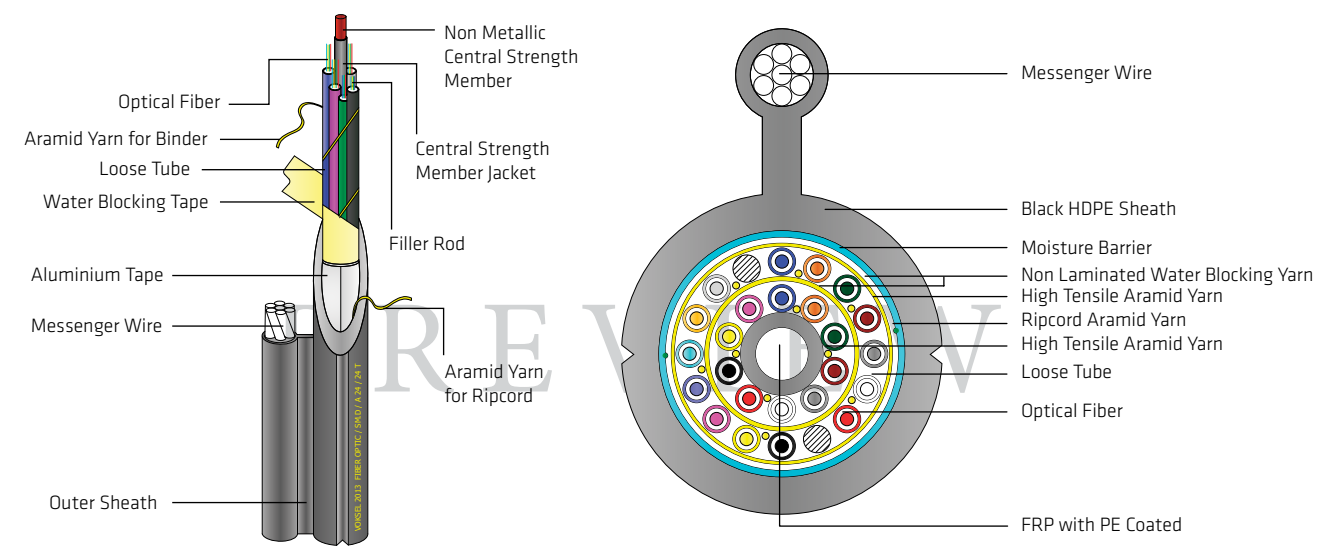
OPTICAL FIBER CABLE FOR AERIAL & DUCT (SINGLE CORE PER TUBE) INSTALLATION



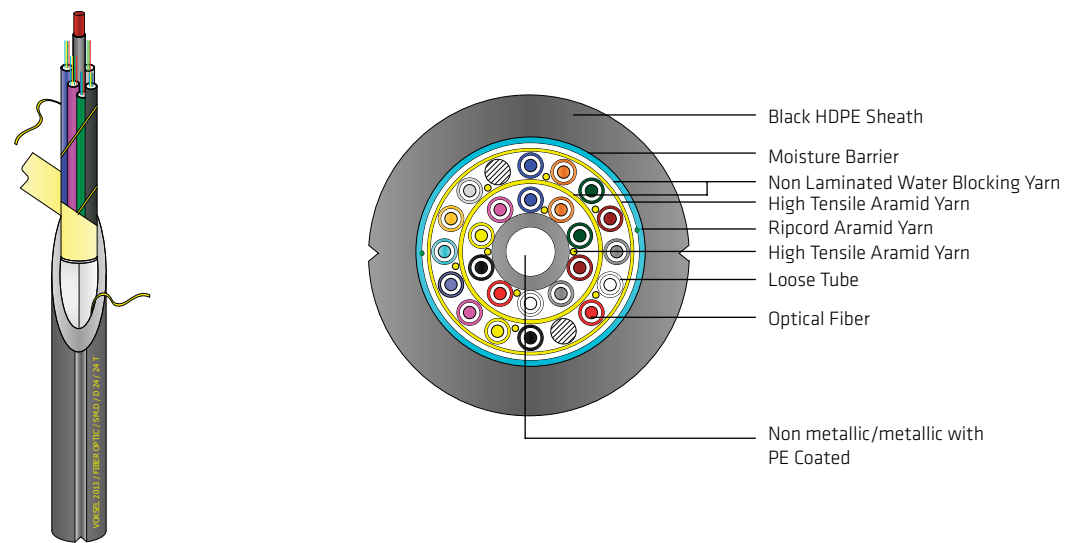
In fiber optic, Single Core Per Tube is one type of cable used to capture one or more optical fiber for the FTTH (Fiber to The Home) Distribution cable. With design easier to split the fiber core and connecting to termination box as well as the loose tube type is compatible in humidly temperature capacity 8 – 24 Core. There are two kind type cable FTTH (Aerial Application Cable and Duct Application Cable)

Standard Specification STEL QA – K – 036 – 2012 (AERIAL)
STEL QA – K – 037 – 2012 (DUCT)

CONSTRUCTION SINGLE CORE PER TUBE AERIAL CABLE



CONSTRUCTION SINGLE CORE PER TUBE DUCT CABLE



TYPICAL SPECIFICATION

Type Specification Single Core Per Tube Aerial

Item	Number of Fiber				
	8	10	12	18	24
Loose Tubes Number	8	10	12	18	8
Fiber Number per Loose Tube	1	1	1	1	1
Max. Cable Outer Diameter (mm)	10.6	11.6	12.5	13.5	15

Type Specification Single Core Per Tube Duct

Item	Number of Fiber				
	8	10	12	18	24
Loose Tubes Number	8	10	12	18	8
Fiber Number per Loose Tube	1	1	1	1	1
Max. Cable Outer Diameter (mm)	10.6	11.6	12.5	13.5	15

Mechanical Characteristic

Fiber Count	Number of Fiber					Unit
	8	10	12	18	24	
Tensile strength	> 2850	> 2850	> 2850	> 2850	> 2850	N
Crush Resistant	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	≥ 2,2	KN/100mm
Max. Weight	± 185	± 200	± 210	± 215	± 240	Kg/Km
Min. Bending	20 X OD	20 X OD	20 X OD	20 X OD	20 X OD	mm
Temperature Storage :	- 40 to +70	- 40 to +70	- 40 to +70	40 to +70	40 to +70	°C
Installation :	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	- 30 to +60	
Operating :	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	- 40 to +70	

Characteristic	Value	Unit
Proof Test	1	%
Additional Loss	< 0.1	dB
Radius	30	mm
Number of Turn	100	-

JUMPER WIRE



Poly Vinyl Chloride insulated Jumper Wires are designed for cross connecting of jumping usage, on MDF, IDF, and other connecting circuit in cable house.

Type of Product Jumper Wire
Cable Size 2 x 1 x 0.6
2 x 1 x 0.5
Ref. Standard STEEL K-006
SII 0616-82
SNI 04-2068-1990
Cable Designation R - V

Jumper Wire Dimensions

Conductor Diameter	mm	0.6
Cable Size	Pair	1
PVC Insulations Thickness	mm	0.3
External Diameter	mm	2.4
Cable Weight	kg/km	8
Standard Packing Length	m	500
Drum Volume	m³	-
Drum Type		Coil

DROP WIRE



Aerial Drop wires are designed for installations, from distribution cables to subscribers or for installations on external wall of buildings or houses

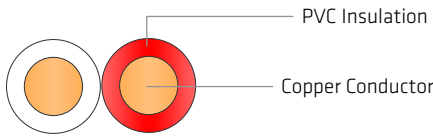
Type of Product Drop Wire
Cable Size 2 x 1 x 0.6
2 x 1 x 0.8
Ref. Standard STEEL K-004
SII 064-82
SNI 04-2066-1990
Cable Designation U - ES

Drop Wire Dimensions

Conductor Diameter	mm	0.6	0.8
Cable Size	Pair	1	1
PE Insulation Thickness	mm	1.0	1.0
Cable Width	mm	5.9	5.9
Suspension Strand	mm	1/1.2	1/1.2
Cable Weight	kg/km	31	36
Standard Packing Length	m	500	500
Drum Volume	m³	-	-
Drum Type		Coil	Coil

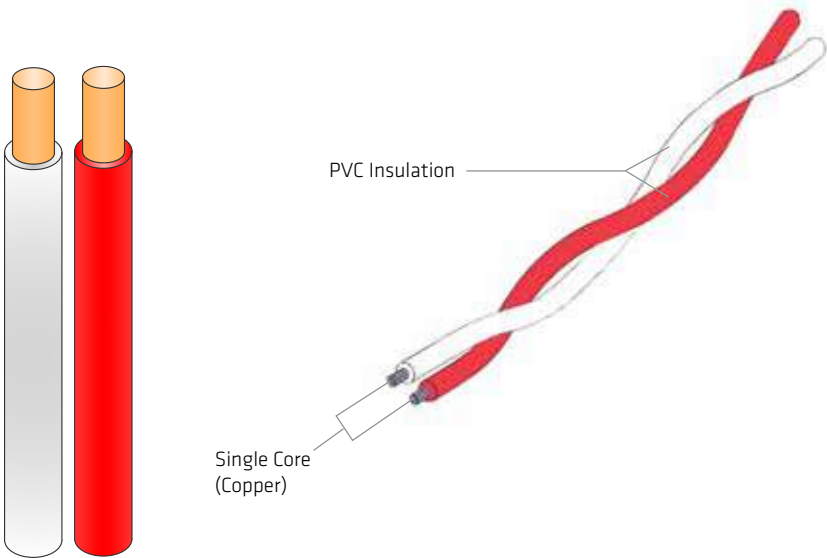
DESCRIPTION	UNIT	SPECIFICATION
ELECTRICAL AND MECHANICAL DATA : Conductor resistance at 20 ± 1°C Maximum Individual Min. Insulation resistance at 5000 V DC	Ohm/km M Ohm.km/minute	65.00 100
MECHANICAL CHARACTERISTICS : Min. Elongation of copper conductor Min. Tensile Strength of PVC insulation Min.Elongation of PVC insulation	% N/mm² %	18 12.5 12.5

Cable Construction

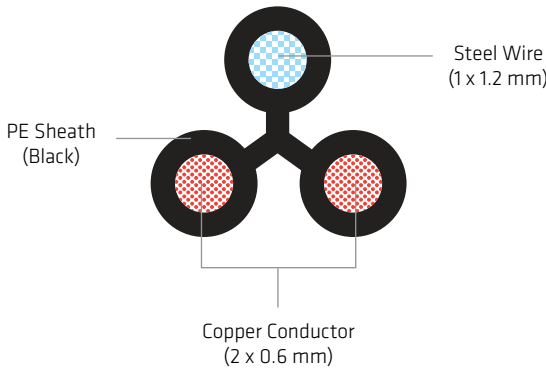
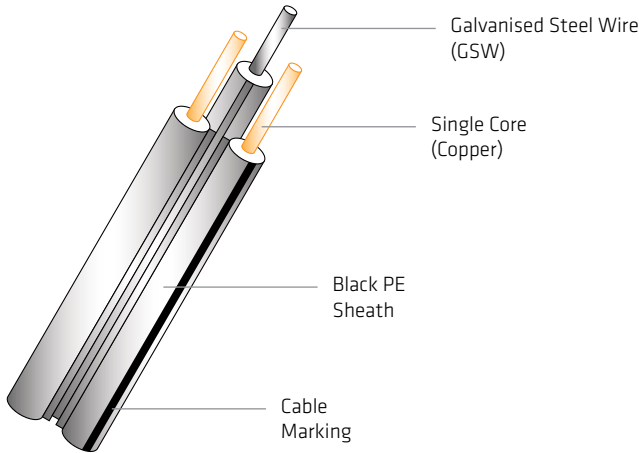


Installation Colour

Pair Number	Colour of Insulation	
	"A" Wire	"B" Wire
1	White	Blue
2	White	Red
3	White	Black
4	Blue	Red



DESCRIPTION	UNIT	SPECIFICATION
ELECTRICAL AND MECHANICAL DATA : Conductor resistance at 20 ± 1°C Maximum Individual Min. Insulation resistance at 5000 V DC	Ohm/km M Ohm.km/minute	65.00 10,000
MECHANICAL CHARACTERISTICS : Min. Elongation of copper conductor Min. Tensile Strength of PVC insulation Min.Elongation of PVC insulation	% N/mm² %	18 1255 300





PT VOKSEL ELECTRIC Tbk.

LOW VOLTAGE CABLE

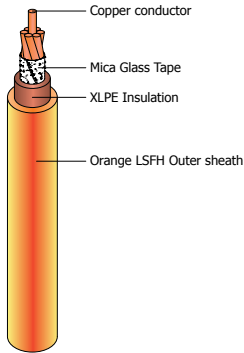
LOW VOLTAGE
CABLE



FIRE RESISTANCE CABLES

N2XY 1 x (1.5 - 800) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
Standard Specification : SS 299, BS 6387 & IEC 60331



Special Features on Request:

- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 meters

16 - 400 sqmm supplied in wooden drum @ 1000 meters

500 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum $\pm 2\%$

Application:

For wiring of fire resistance safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	6.9	59
2.5	7.5	75
4	7.9	93
6	8.1	110
10	9.0	155
16	10.0	215
25	11.7	315
35	12.8	405
50	14.5	535
70	16.5	745
95	18.5	1,005
120	20.5	1,245
150	22.5	1,530
185	25.0	1,895
240	28.0	2,465
300	31.0	3,075
400	35.0	3,935
500	39.5	5,025
630	43.0	6,375
800	49.0	8,185

Electrical Data

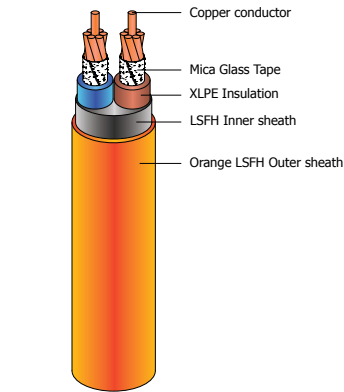
Conductor			Inductance (mH/km)	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω /km)	AC Resistance at 90 °C Max. (Ω /km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.478	35	43	0.22
2.5	7.41	9.449	0.441	43	58	0.37
4	4.61	5.787	0.409	57	76	0.59
6	3.08	3.927	0.387	72	95	0.89
10	1.83	2.334	0.356	98	128	1.49
16	1.15	1.466	0.333	132	169	2.38
25	0.727	0.927	0.317	187	220	3.71
35	0.524	0.668	0.303	217	265	5.20
50	0.387	0.494	0.290	263	316	7.43
70	0.268	0.342	0.280	331	385	10.40
95	0.193	0.347	0.272	408	465	14.11
120	0.153	0.196	0.268	474	531	17.83
150	0.124	0.160	0.267	550	597	22.29
185	0.0991	0.128	0.265	633	680	27.49
240	0.0754	0.099	0.260	750	790	35.66
300	0.0601	0.080	0.255	871	901	44.57
400	0.0470	0.064	0.254	1019	1032	59.43
500	0.0366	0.052	0.251	1188	1180	74.29
630	0.0283	0.043	0.247	1241	1233	93.60
800	0.0221	0.036	0.244	1295	1287	118.86

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

FIRE RESISTANCE CABLES

N2XY 2 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
Standard Specification : SS 299, BS 6387 & IEC 60331



Application:
For wiring of fire resistance safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

Special Features on Request:

- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters
150 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	14.5	255
2.5	15.5	305
4	16.5	365
6	18.0	445
10	20.0	585
16	22.0	755
25	25.0	1,050
35	27.5	1,325
50	30.0	1,625
70	34.5	2,250
95	38.0	2,875
120	41.5	3,485
150	46.5	4,335
185	51.0	5,255
240	56.5	6,645
300	62.5	8,205

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	27	33	0.22
2.5	7.41	9.449	0.293	36	44	0.37
4	4.61	5.878	0.275	48	58	0.59
6	3.08	3.927	0.263	61	72	0.89
10	1.83	2.334	0.248	83	97	1.49
16	1.15	1.467	0.238	113	128	2.38
25	0.727	0.927	0.240	150	167	3.71
35	0.524	0.669	0.233	186	201	5.20
50	0.387	0.494	0.232	226	239	7.43
70	0.268	0.342	0.229	290	295	10.40
95	0.193	0.247	0.224	353	355	14.11
120	0.153	0.196	0.223	413	404	17.83
150	0.124	0.160	0.224	468	458	22.29
185	0.0991	0.128	0.225	540	516	27.49
240	0.0754	0.099	0.223	590	600	35.66
300	0.0601	0.080	0.221	745	695	44.57

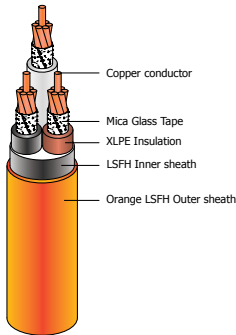
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



FIRE RESISTANCE CABLES

N2XY 3 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
Standard Specification : SS 299, BS 6387 & IEC 60331



Application:
For wiring of fire resistance safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

Special Features on Request:

- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



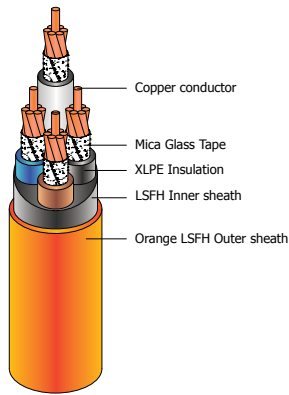
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	15.5	285
2.5	16.5	335
4	17.5	415
6	19.0	515
10	21.0	690
16	23.5	915
25	26.5	1,290
35	29.0	1,645
50	32.0	2,040
70	37.0	2,830
95	40.5	3,685
120	44.5	4,495
150	50.0	5,575
185	54.5	6,815
240	61.0	8,795
300	66.5	10,755

FIRE RESISTANCE CABLES

N2XY 4 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
Standard Specification : SS 299, BS 6387 & IEC 60331



Application:
For wiring of fire resistance safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

Special Features on Request:

- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
1.5 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

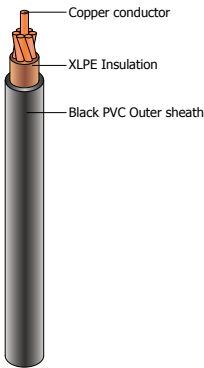
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	16.5	325
2.5	17.5	390
4	19.0	485
6	20.5	605
10	23.0	840
16	25.5	1,125
25	29.0	1,605
35	32.0	2,075
50	36.0	2,630
70	41.0	3,585
95	44.5	4,700
120	50.0	5,850
150	55.5	7,145
185	61.0	8,850
240	67.5	11,315
300	74.0	13,870

N2XY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
1.5 - 10 sqmm supplied in coil @ 100 meters
16 - 300 sqmm supplied in wooden drum @ 1000 meters
400 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	5.8	47
2.5	6.2	59
4	6.8	77
6	7.3	98
10	8.2	145
16	9.3	205
25	11.0	305
35	12.1	405
50	14.0	525
70	16.0	730
95	18.0	1,005
120	20.0	1,250
150	22.0	1,525
185	24.0	1,885
240	27.5	2,475
300	30.0	3,045
400	34.0	3,930
500	38.0	4,960

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit curent at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	586	44.57

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

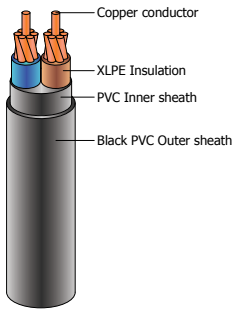
Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.452	35	43	0.22
2.5	7.41	9.449	0.417	43	58	0.37
4	4.61	5.787	0.387	57	76	0.59
6	3.08	3.927	0.364	72	95	0.89
10	1.83	2.334	0.336	98	128	1.49
16	1.15	1.466	0.315	132	169	2.38
25	0.727	0.927	0.302	187	220	3.71
35	0.524	0.668	0.289	217	265	5.20
50	0.387	0.494	0.279	263	316	7.43
70	0.268	0.342	0.270	331	385	10.40
95	0.193	0.347	0.263	408	465	14.11
120	0.153	0.196	0.259	474	531	17.83
150	0.124	0.160	0.259	550	597	22.29
185	0.0991	0.128	0.258	633	680	27.49
240	0.0754	0.099	0.253	750	790	35.66
300	0.0601	0.080	0.249	871	901	44.57
400	0.0470	0.064	0.249	1019	1032	59.43
500	0.0366	0.052	0.246	1188	1180	74.29

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in coil @ 100 meters

185 - 300 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:

Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	27	33	0.22
2.5	7.41	9.449	0.293	36	44	0.37
4	4.61	5.878	0.275	48	58	0.59
6	3.08	3.927	0.263	61	72	0.89
10	1.83	2.334	0.248	83	97	1.49
16	1.15	1.467	0.238	113	128	2.38
25	0.727	0.927	0.240	150	167	3.71
35	0.524	0.669	0.233	186	201	5.20
50	0.387	0.494	0.232	226	239	7.43
70	0.268	0.342	0.229	290	295	10.40
95	0.193	0.247	0.224	353	355	14.11
120	0.153	0.196	0.223	413	404	17.83
150	0.124	0.160	0.224	468	458	22.29
185	0.0991	0.128	0.225	540	516	27.49
240	0.0754	0.099	0.223	590	600	35.66
300	0.0601	0.080	0.221	745	695	44.57

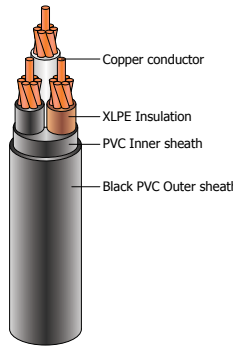
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in coil @ 100 meters

150 - 300 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:

Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
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50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



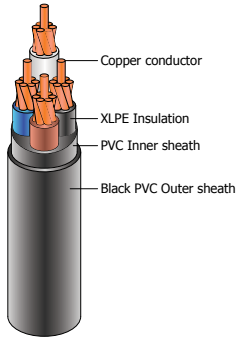
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	12.0	190
2.5	13.0	235
4	14.5	305
6	15.5	380
10	17.5	545
16	20.0	755
25	23.5	1,120
35	26.0	1,465
50	29.0	1,905
70	34.0	2,670
95	38.5	3,580
120	42.5	4,465
150	47.5	5,535
185	53.0	6,840
240	59.0	8,865
300	66.0	10,995

N2XY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
16 sqmm supplied in non compacted circular
stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) or sector shaped stranded
(sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @
1000 meters
95 - 300 sqmm supplied in wooden drum
on available length
Length Tolerance per drum ± 2%

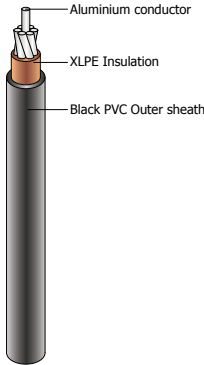
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	220
2.5	14.0	275
4	15.5	360
6	17.0	460
10	19.0	665
16	21.5	935
25	25.5	1,395
35	28.5	1,840
50	29.5	2,240
70	34.5	3,125
95	39.0	4,205
120	43.0	5,305
150	48.0	6,445
185	53.5	8,045
240	59.5	10,430
300	65.0	12,945

NA2XY 1 x (10 - 800) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 800 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape

Standard Packing

10 - 800 sqmm supplied in wooden drum @
1000 meters
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	8.3	83
16	9.4	111
25	11.1	155
35	12.2	195
50	14.0	255
70	16.0	335
95	18.5	440
120	20.0	530
150	22.0	640
185	24.5	785
240	28.0	1,015
300	30.0	1,230
400	34.5	1,600
500	38.0	1,940
630	43.0	2,480
800	47.0	3,050

Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)				
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

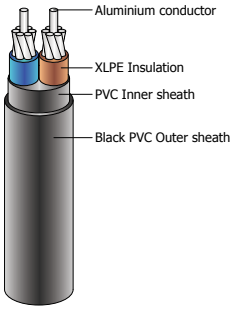
Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)				
10	3.08	3.949	0.336	72	95	0.98
16	1.91	2.449	0.311	102	131	1.57
25	1.20	1.539	0.302	137	170	2.45
35	0.868	1.113	0.289	168	205	3.43
50	0.641	0.822	0.279	204	242	4.91
70	0.443	0.568	0.269	257	301	6.87
95	0.320	0.411	0.263	316	360	9.32
120	0.253	0.325	0.260	368	421	11.77
150	0.206	0.265	0.258	421	463	14.72
185	0.164	0.212	0.258	488	525	18.15
240	0.125	0.162	0.253	583	615	23.55
300	0.100	0.130	0.249	675	700	29.44
400	0.0778	0.103	0.245	790	800	39.25
500	0.0605	0.081	0.245	921	915	49.06
630	0.0469	0.065	0.243	942	936	61.82
800	0.0367	0.053	0.241	1074	1068	78.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 2 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
10 - 16 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
10 - 185 sqmm supplied in wooden drum @ 1000 meters
240 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:
Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	61	72	0.98
16	1.91	2.449	0.236	88	99	1.57
25	1.20	1.539	0.242	119	130	2.45
35	0.868	1.113	0.234	145	157	3.43
50	0.641	0.822	0.232	175	185	4.91
70	0.443	0.568	0.229	220	229	6.87
95	0.320	0.411	0.224	272	276	9.32
120	0.253	0.325	0.223	317	320	11.77
150	0.206	0.265	0.225	362	351	14.72
185	0.164	0.212	0.225	420	400	18.15
240	0.125	0.162	0.223	297	467	23.55
300	0.100	0.130	0.222	577	532	29.44

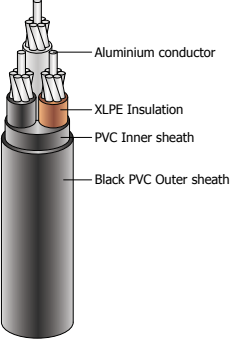
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NA2XY 3 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
10 - 16 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
10 - 185 sqmm supplied in wooden drum @ 1000 meters
240 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:
Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	52	60	0.98
16	1.91	2.449	0.236	75	84	1.57
25	1.20	1.539	0.242	100	110	2.45
35	0.868	1.113	0.234	123	132	3.43
50	0.641	0.822	0.232	149	156	4.91
70	0.443	0.568	0.229	189	193	6.87
95	0.320	0.411	0.224	233	232	9.32
120	0.253	0.325	0.223	271	268	11.77
150	0.206	0.265	0.225	310	296	14.72
185	0.164	0.212	0.225	359	336	18.15
240	0.125	0.162	0.223	429	429	23.55
300	0.100	0.130	0.222	496	447	29.44

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



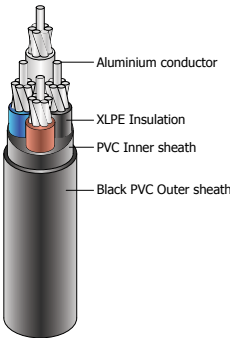
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	17.5	365
16	20.0	480
25	24.0	680
35	26.0	845
50	30.0	1,110
70	35.0	1,500
95	39.0	1,895
120	43.0	2,305
150	48.0	2,870
185	53.0	3,530
240	60.0	4,525
300	66.0	5,525

NA2XY 4 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 35 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) or sector shaped stranded
(sm) conductor

Standard Packing

10 - 120 sqmm supplied in wooden drum @
1000 meters
150 - 300 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

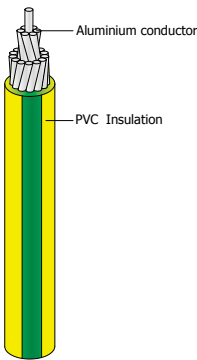
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area mm²	approx. mm	approx. kg/km
10	19.0	425
16	22.0	565
25	26.0	810
35	28.5	1,015
50	29.5	1,055
70	34.5	1,435
95	39.0	1,820
120	43.0	2,240
150	48.0	2,725
185	53.5	3,365
240	59.5	4,280
300	65.0	5,205

NAYA 10 - 400 mm² 450 /750 V

AL / PVC

(Aluminium Conductor, PVC Insulated)
Standard Specification : IEC 60227 - 1



Special Features on Request:

- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category

Note:

Conductor Shape

10 - 400 sqmm supplied in non compacted
circular stranded (rm) conductor shape

Standard Packing

10 - 400 sqmm supplied in wooden drum @
1000 meters
Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry
location, sometimes can be used as ground-
ing conductor, inherently flame retardant in
compliance with IEC 60332 - 1

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area mm²	approx. mm	approx. kg/km
10	6.1	55
16	7.2	79
25	8.9	120
35	10.0	155
50	12.0	215
70	14.0	290
95	16.0	385
120	17.5	465
150	20.0	575
185	22.0	725
240	25.0	935
300	28.0	1,160
400	32.0	1,505

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	52	60	0.98
16	1.91	2.449	0.236	75	84	1.57
25	1.20	1.539	0.242	110	110	2.45
35	0.868	1.113	0.234	123	132	3.43
50	0.641	0.822	0.232	149	156	4.91
70	0.443	0.568	0.229	189	193	6.87
95	0.320	0.411	0.224	233	232	9.32
120	0.253	0.325	0.223	271	268	11.77
150	0.206	0.265	0.225	310	296	14.72
185	0.164	0.212	0.225	359	336	18.15
240	0.125	0.162	0.223	429	393	23.55
300	0.100	0.130	0.222	496	447	29.44

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

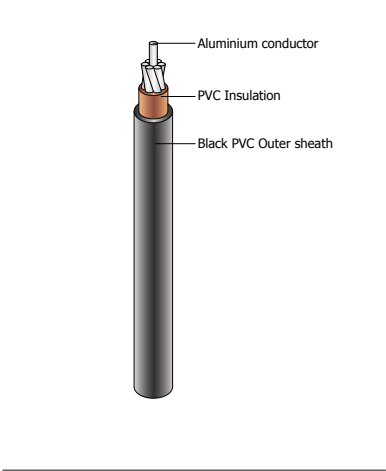
Nom Cross Section Area mm²	Conductor		Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in pipe Max. (A)	in air Max. (A)	
10	3.08	3.701	0.0065	0.274	35	57	1.08
16	1.91	2.295	0.0050	0.258	48	77	1.72
25	1.20	1.442	0.0050	0.257	65	101	2.69
35	0.868	1.043	0.0040	0.249	80	123	3.77
50	0.641	0.771	0.0045	0.248	103	154	5.39
70	0.443	0.533	0.0035	0.239	129	191	7.54
95	0.320	0.385	0.0035	0.239	162	226	10.24
120	0.253	0.305	0.0032	0.235	184	269	12.93
150	0.206	0.249	0.0032	0.235	-	305	16.16
185	0.1640	0.199	0.0032	0.235	-	348	19.93
240	0.1250	0.152	0.0032	0.233	-	410	25.86
300	0.100	0.123	0.0030	0.232	-	473	32.33
400	0.0778	0.097	0.0028	0.229	-	566	43.10

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYY 1 x (10 - 800) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 800 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape

Standard Packing
10 - 800 sqmm supplied in wooden drum @
1000 meters
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	9.0	105
16	10.0	135
25	12.0	190
35	13.0	230
50	15.0	305
70	17.0	395
95	19.5	515
120	21.0	610
150	23.0	740
185	25.5	915
240	29.0	1,160
300	32.0	1,425
400	36.0	1,825
500	39.5	2,200
630	44.0	2,760
800	48.0	3,335

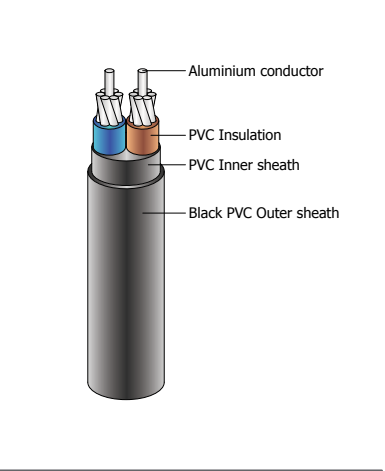
Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A))	
10	3.08	3.701	50	0.350	58	74	1.08
16	1.91	2.295	40	0.323	82	102	1.72
25	1.20	1.442	40	0.313	110	139	2.69
35	0.868	1.043	40	0.298	135	160	3.77
50	0.641	0.770	30	0.290	165	191	5.39
70	0.443	0.533	30	0.279	210	240	7.54
95	0.320	0.385	30	0.274	260	290	10.24
120	0.253	0.305	30	0.270	300	335	12.93
150	0.206	0.249	20	0.265	350	375	16.16
185	0.164	0.198	20	0.264	400	425	19.93
240	0.125	0.152	20	0.260	480	500	25.86
300	0.100	0.122	20	0.258	550	570	32.33
400	0.0778	0.096	20	0.252	660	660	43.10
500	0.0605	0.076	20	0.251	780	765	53.88
630	0.0469	0.061	20	0.246	820	800	67.88
800	0.0367	0.050	20	0.242	940	910	86.20

NAYY 2 x (10 - 300) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 300 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape

Standard Packing
10 - 150 sqmm supplied in wooden drum @
1000 meters
185 - 300 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	18.0	390
16	20.0	495
25	23.5	690
35	26.0	845
50	30.0	1,115
70	33.5	1,420
95	38.0	1,840
120	41.5	2,180
150	45.5	2,640
185	51.5	3,355
240	58.0	4,255
300	64.0	5,245

Electrical Data

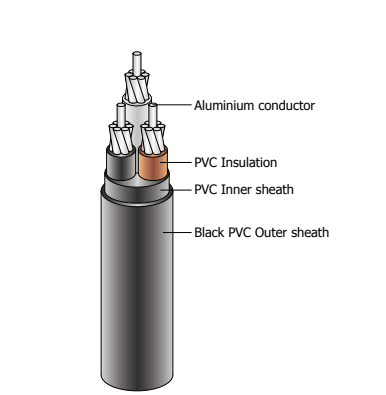
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A))	
10	3.08	3.701	50	0.269	48	59	1.08
16	1.91	2.295	40	0.253	70	79	1.72
25	1.20	1.442	40	0.257	94	102	2.69
35	0.868	1.043	40	0.247	115	125	3.77
50	0.641	0.770	30	0.247	140	147	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	245	245	16.16
185	0.164	0.198	20	0.233	275	275	19.93
240	0.125	0.152	20	0.232	320	320	25.86
300	0.100	0.122	20	0.231	365	365	32.33

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYY 3 x (10 - 400) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

- Special Features on Request:**
- Oil Resistance
 - UV Resistance
 - Flame Retardant Cat. A, B, C
 - Flame Retardant Non Category
 - Heat Resistance
 - Anti Termite
 - Anti Rodent
 - Low Smoke Zero Halagen

Note:
Conductor Shape
10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 400 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape
Standard Packing
10 - 150 sqmm supplied in wooden drum @
1000 meters
185 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	50	0.269	44	52	1.08
16	1.91	2.295	40	0.253	62	69	1.72
25	1.20	1.442	40	0.257	82	89	2.69
35	0.868	1.043	40	0.247	100	107	3.77
50	0.641	0.770	30	0.247	125	129	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	250	245	16.16
185	0.164	0.198	20	0.233	285	275	19.93
240	0.125	0.152	20	0.232	340	320	25.86
300	0.100	0.122	20	0.231	390	365	32.33
400	0.0778	0.096	20	0.229	460	420	43.10

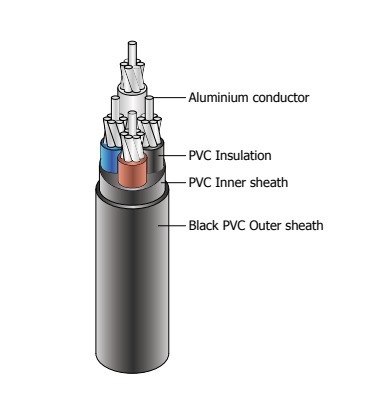
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NAYY 4 x (10 - 400) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1



Application:
Power cable : Indoors, cable trunking, out-
doors and buried in the ground, for power
stations, industry and switchgear as well
as for urban supply networks, if mechanical
damage is unlikely.

- Special Features on Request:**
- Oil Resistance
 - UV Resistance
 - Flame Retardant Cat. A, B, C
 - Flame Retardant Non Category
 - Heat Resistance
 - Anti Termite
 - Anti Rodent
 - Low Smoke Zero Halagen

Note:
Conductor Shape
10 - 16 sqmm supplied in solid (re) or non
compacted circular stranded (rm) conductor
shape
25 - 35 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted
circular stranded (rm) or compacted circular
stranded (cm) or sector shaped stranded
(sm) conductor
Standard Packing
10 - 120 sqmm supplied in wooden drum @
1000 meters
150 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	50	0.269	44	52	1.08
16	1.91	2.295	40	0.253	62	69	1.72
25	1.20	1.442	40	0.257	82	89	2.69
35	0.868	1.043	40	0.247	100	107	3.77
50	0.641	0.770	30	0.247	125	129	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	250	245	16.16
185	0.164	0.198	20	0.233	285	275	19.93
240	0.125	0.152	20	0.232	340	320	25.86
300	0.100	0.122	20	0.231	390	365	32.33
400	0.0778	0.096	20	0.229	460	420	43.10

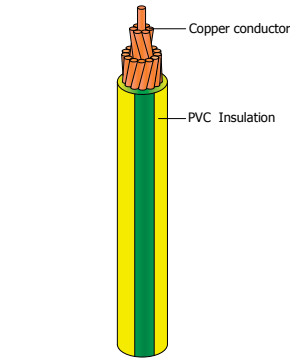
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYA 1.5 - 400 mm² 450 / 750 V

Cu / PVC

(Copper Conductor, PVC Insulated)
Standard Specification : SPLN 42 - 1, SNI 04 - 6629.3 & IEC 60227 - 1



Application:
For building wire installed in conduit in dry location and interwiring in switch board and control panel.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 70 °C Min. (M.Ω.km)	(mH/km)	in pipe Max. (A)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.320	15	24	0.17
2.5	7.41	8.866	0.0900	0.309	19	32	0.28
4	4.61	5.516	0.0077	0.290	25	42	0.45
6	3.08	3.685	0.0065	0.276	33	54	0.68
10	1.83	2.190	0.0065	0.274	45	73	1.13
16	1.15	1.376	0.0050	0.260	61	98	1.81
25	0.727	0.870	0.0050	0.257	83	129	2.82
35	0.524	0.627	0.0040	0.249	103	158	3.45
50	0.387	0.464	0.0045	0.248	132	197	5.65
70	0.268	0.321	0.0035	0.240	165	245	7.91
95	0.193	0.232	0.0032	0.239	207	290	10.73
120	0.153	0.184	0.0032	0.235	235	345	13.56
150	0.124	0.150	0.0032	0.235	-	390	16.94
185	0.0991	0.121	0.0032	0.235	-	445	20.90
240	0.0754	0.093	0.0032	0.233	-	525	27.11
300	0.0601	0.075	0.0030	0.232	-	605	33.89
400	0.0470	0.060	0.0028	0.231	-	725	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



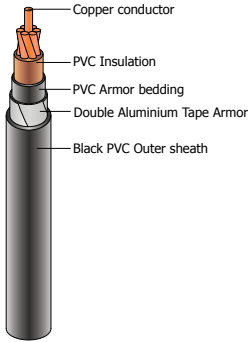
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	2.9	20
2.5	3.5	31
4	3.9	46
6	4.4	65
10	5.6	110
16	7.2	175
25	9.0	270
35	10.0	365
50	12.0	495
70	13.5	690
95	16.0	955
120	17.5	1,185
150	19.5	1,465
185	22.0	1,825
240	25.0	2,415
300	27.5	2,980
400	31.5	3,885

NYB(AL)Y 1 x (16 - 500) mm² 0.6/1 kV

Cu / PVC / DATA / PVC

(Copper Conductor, PVC Insulated, Double Aluminium Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3



Application:
For installation indoors, cable channels and in ground, for industry installations, switch-gear, and power station, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.412	105	129	1.81
25	0.727	0.870	40	0.374	140	169	2.82
35	0.524	0.627	40	0.356	175	210	3.95
50	0.387	0.463	30	0.341	215	250	5.65
70	0.268	0.321	30	0.324	270	310	7.91
95	0.193	0.232	30	0.313	335	375	10.7
120	0.153	0.184	30	0.303	390	425	13.56
150	0.124	0.150	20	0.298	445	480	16.94
185	0.0991	0.120	20	0.291	510	550	20.90
240	0.0754	0.093	20	0.285	620	640	27.11
300	0.0601	0.075	20	0.279	710	730	33.89
400	0.0470	0.060	20	0.278	850	855	40.06
500	0.0366	0.049	20	0.272	1000	990	50.08

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	15.0	265
25	16.5	495
35	18.0	610
50	19.5	765
70	21.0	995
95	23.5	1,300
120	25.0	1,565
150	27.0	1,880
185	29.5	2,290
240	33.0	2,935
300	36.0	3,620
400	40.0	4,565
500	44.0	5,690

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

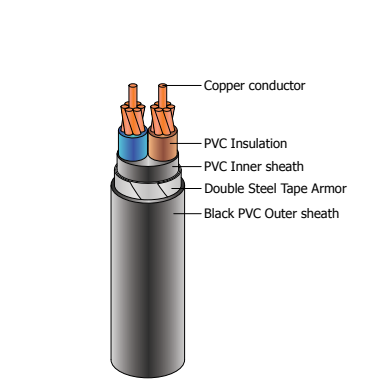
Standard Packing

16 - 300 sqmm supplied in wooden drum @ 1000 meters
400 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

NYBY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3



Application:
For installation indoors, cable channels and in ground, for industry installations, switch-gear, and power station, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters
150 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	260
2.5	14.0	305
4	15.5	405
6	16.5	480
10	18.5	630
16	21.0	825
25	24.0	1,160
35	26.5	1,455
50	30.0	1,880
70	34.0	2,480
95	40.5	3,710
120	44.0	4,445
150	48.0	5,370
185	53.0	6,580
240	59.5	8,375
300	66.0	10,280

Electrical Data

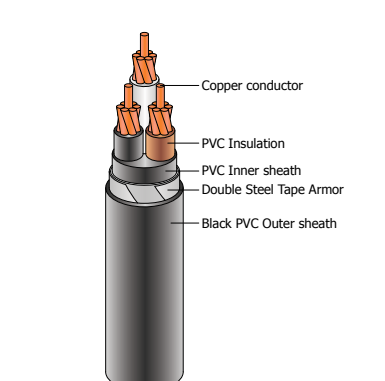
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3



Application:
For installation indoors, cable channels and in ground, for industry installations, switch-gear, and power station, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.5	285
2.5	14.5	345
4	16.5	465
6	18.0	555
10	20.0	745
16	22.0	990
25	25.5	1,420
35	28.0	1,805
50	32.0	2,350
70	38.0	3,485
95	43.0	4,635
120	47.0	5,890
150	52.0	6,830
185	57.0	8,320
240	64.0	10,710
300	71.0	13,085

Electrical Data

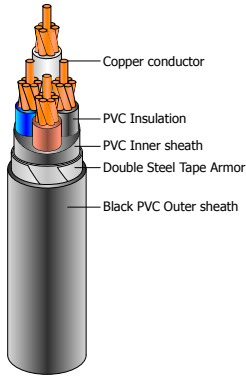
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3



Application:
For installation indoors, cable channels and in ground, for industry installations, switch-gear, and power station, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	14.5	325
2.5	15.5	395
4	18.0	540
6	19.0	660
10	21.5	895
16	24.0	1,205
25	28.0	1,750
35	30.5	2,235
50	33.0	2,670
70	38.5	3,890
95	44.0	6,195
120	47.5	6,330
150	52.5	7,610
185	58.0	9,425
240	64.5	11,985
300	70.5	14,745

Electrical Data

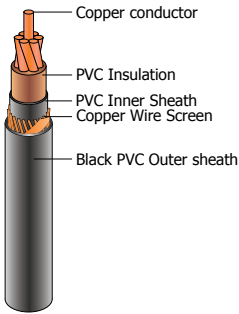
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1



Application:
For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely, for urban net-works, household feeder and street lighting.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
Standard Packing
1.5 - 240 sqmm supplied in wooden drum @ 1000 meters
300 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Electrical Data

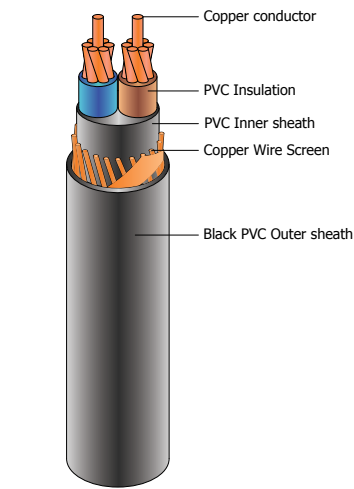
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.455	26	33	0.17
2.5 / 2.5	7.41	8.866	50	0.514	35	45	0.28
4 / 4	4.61	5.516	50	0.485	46	58	0.45
6 / 6	3.08	3.685	50	0.457	58	74	0.68
10 / 10	1.83	2.190	50	0.420	80	98	1.13
16 / 16	1.15	1.376	40	0.399	105	129	1.81
25 / 16	0.727	0.870	40	0.373	140	169	2.82
35 / 16	0.524	0.627	40	0.355	175	210	3.95
50 / 25	0.387	0.463	30	0.345	215	250	5.65
70 / 35	0.268	0.321	30	0.329	270	310	7.91
95 / 50	0.193	0.232	30	0.322	335	375	10.7
120 / 70	0.153	0.184	30	0.316	390	425	13.56
150 / 70	0.124	0.150	20	0.310	445	480	16.94
185 / 95	0.0991	0.121	20	0.305	510	550	20.9
240 / 120	0.0754	0.093	20	0.298	620	640	27.11
300 / 150	0.0601	0.075	20	0.294	710	730	33.89
400 / 185	0.0470	0.061	20	0.293	850	855	40.06
500 / 240	0.0366	0.049	20	0.289	1000	990	50.08

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1



Application:
For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely, for urban networks, household feeder and street lighting.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters
150 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	13.5	220
2.5 / 2.5	14.5	265
4 / 4	16.5	365
6 / 6	17.5	445
10 / 10	19.5	615
16 / 16	22.0	845
25 / 16	25.0	1,150
35 / 16	27.5	1,425
50 / 25	31.5	1,895
70 / 35	35.5	2,565
95 / 50	41.0	3,505
120 / 70	44.5	4,350
150 / 70	48.5	5,155
185 / 95	54.5	6,490
240 / 120	61.0	8,355
300 / 150	67.5	10,345

Electrical Data

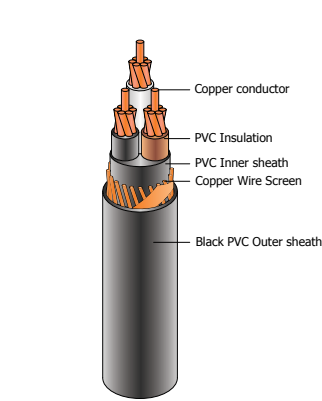
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	21	27	0.17
2.5 / 2.5	7.41	8.866	50	0.304	29	36	0.28
4 / 4	4.61	5.516	50	0.303	38	47	0.45
6 / 6	3.08	3.685	50	0.288	48	59	0.68
10 / 10	1.83	2.190	50	0.269	66	78	1.13
16 / 16	1.15	1.376	40	0.255	90	102	1.81
25 / 16	0.727	0.870	40	0.255	120	134	2.82
35 / 16	0.524	0.627	40	0.246	150	180	3.95
50 / 25	0.387	0.464	30	0.247	180	210	5.65
70 / 35	0.268	0.321	30	0.238	230	260	7.91
95 / 50	0.193	0.232	30	0.238	280	315	10.7
120 / 70	0.153	0.184	30	0.233	320	320	13.56
150 / 70	0.124	0.150	20	0.233	375	355	16.94
185 / 95	0.0991	0.121	20	0.233	430	409	20.9
240 / 120	0.0754	0.093	20	0.232	510	472	27.11
300 / 150	0.0601	0.075	20	0.231	590	525	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1



Application:
For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely, for urban networks, household feeder and street lighting.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	14.0	245
2.5 / 2.5	15.0	305
4 / 4	17.0	420
6 / 6	18.5	520
10 / 10	20.5	735
16 / 16	23.0	1,015
25 / 16	27.0	1,405
35 / 16	29.0	1,775
50 / 25	33.5	2,370
70 / 35	38.0	3,240
95 / 50	44.0	4,425
120 / 70	47.5	5,480
150 / 70	52.5	6,590
185 / 95	58.0	8,225
240 / 120	65.5	10,675
300 / 150	73.0	13,255

Electrical Data

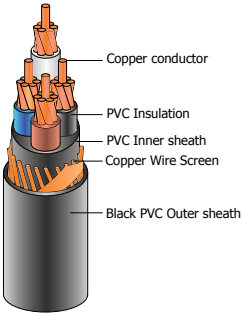
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	18	24	0.17
2.5 / 2.5	7.41	8.866	50	0.304	25	32	0.28
4 / 4	4.61	5.516	50	0.303	34	41	0.45
6 / 6	3.08	3.685	50	0.288	44	52	0.68
10 / 10	1.83	2.190	50	0.269	60	69	1.13
16 / 16	1.15	1.376	40	0.255	80	89	1.81
25 / 16	0.727	0.870	40	0.255	105	116	2.82
35 / 16	0.524	0.627	40	0.246	130	138	3.95
50 / 25	0.387	0.464	30	0.247	160	165	5.65
70 / 35	0.268	0.321	30	0.238	200	205	7.91
95 / 50	0.193	0.232	30	0.238	245	245	10.7
120 / 70	0.153	0.184	30	0.233	285	285	13.56
150 / 70	0.124	0.150	20	0.233	325	315	16.94
185 / 95	0.0991	0.121	20	0.233	370	355	20.9
240 / 120	0.0754	0.093	20	0.232	435	415	27.11
300 / 150	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1



Application:
For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely, for urban networks, household feeder and street lighting.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	15.0	290
2.5 / 2.5	16.0	365
4 / 4	18.5	510
6 / 6	19.5	635
10 / 10	22.0	900
16 / 16	25.0	1,255
25 / 16	29.0	1,770
35 / 16	31.5	2,245
50 / 25	34.5	2,760
70 / 35	38.5	3,725
95 / 50	44.5	5,085
120 / 70	48.0	6,330
150 / 70	53.5	7,585
185 / 95	59.0	9,500
240 / 120	66.0	12,260
300 / 150	73.0	15,230

Electrical Data

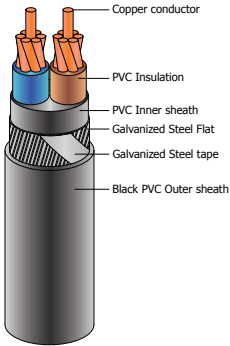
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	18	24	0.17
2.5 / 2.5	7.41	8.866	50	0.304	25	32	0.28
4 / 4	4.61	5.516	50	0.303	34	41	0.45
6 / 6	3.08	3.685	50	0.288	44	52	0.68
10 / 10	1.83	2.190	50	0.269	60	69	1.13
16 / 16	1.15	1.376	40	0.255	80	89	1.81
25 / 16	0.727	0.870	40	0.255	105	116	2.82
35 / 16	0.524	0.627	40	0.246	130	138	3.95
50 / 25	0.387	0.464	30	0.247	160	165	5.65
70 / 35	0.268	0.321	30	0.238	200	205	7.91
95 / 50	0.193	0.232	30	0.238	245	245	10.7
120 / 70	0.153	0.184	30	0.233	285	285	13.56
150 / 70	0.124	0.150	20	0.233	325	315	16.94
185 / 95	0.0991	0.121	20	0.233	370	355	20.9
240 / 120	0.0754	0.093	20	0.232	435	415	27.11
300 / 150	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 2 x (25 - 300) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1



Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

25 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
25	25.5	1,500
35	28.0	1,830
50	32.0	2,345
70	36.0	3,060
95	40.5	3,975
120	44.0	4,730
150	48.5	5,720
185	53.5	6,930
240	60.0	8,790
300	66.0	10,705

Electrical Data

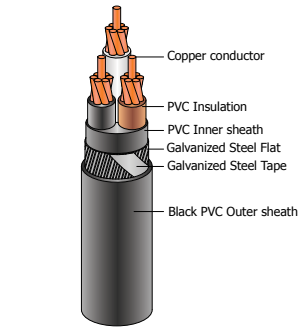
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 3 x (25 - 400) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1



Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
25 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
25	27.0	1,800
35	29.5	2,235
50	34.0	2,830
70	38.0	3,725
95	43.0	4,925
120	47.0	5,895
150	52.0	7,145
185	57.0	8,705
240	64.0	11,155
300	71.0	13,575
400	79.0	17,315

Electrical Data

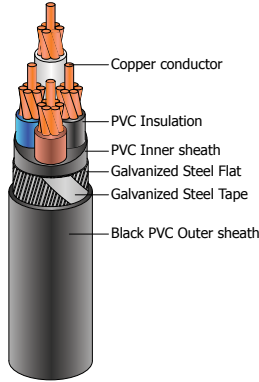
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 4 x (16 - 400) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1



Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing
16 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	25.0	1,585
25	29.0	2,150
35	32.0	2,704
50	34.5	3,175
70	38.5	4,135
95	44.0	5,455
120	48.0	6,610
150	53.0	7,965
185	58.5	9,830
240	65.0	12,435
300	71.0	15,240
400	80.0	19,310

Electrical Data

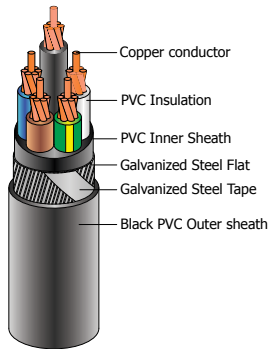
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 5 x (16 - 50) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1



Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 50 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing
16 - 50 sqmm supplied in wooden drum @ 1000 meters
Length Tolerance per drum ± 2%

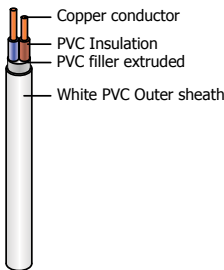
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	27.0	1,835
25	32.0	2,585
35	35.5	3,285
50	40.5	4,250

NYM 2 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3



Application:
For building wire installed in donduit in dry location and interwiring in switch board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category

Note:

Conductor Shape
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

Standard Packing
1.5 - 4 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters
6 - 35 sqmm supplied in wooden drum @ 1000 meters
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	9.0	116
2.5	10.5	157
4	11.5	205
6	12.5	265
10	16.0	425
16	19.0	640
25	23.0	965
35	25.5	1,290

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

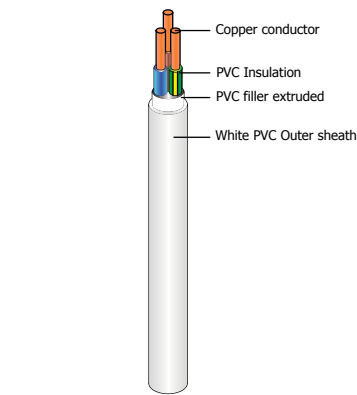
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 70 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 3 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3



Special Features on Request:

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

Standard Packing

1.5 - 4 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters
6 - 35 sqmm supplied in wooden drum @ 1000 meters
Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry location and interwiring in swich board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 70 °C Min. (M.Ω.km)	(mH/km)		
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0085	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

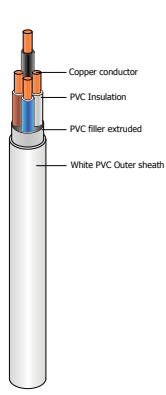
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYM 4 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3



Special Features on Request:

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shap

Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters
4 - 35 sqmm supplied in wooden drum @ 1000 meters
Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry location and interwiring in swich board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 70 °C Min. (M.Ω.km)	(mH/km)		
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

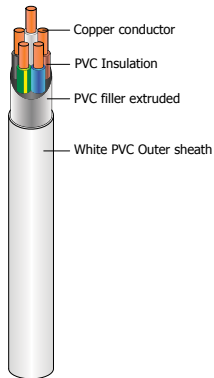
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYM 5 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3



Special Features on Request:

- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shap

Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters
4 - 35 sqmm supplied in wooden drum @ 1000 meters
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	11.0	195
2.5	12.5	275
4	15.0	395
6	16.0	515
10	19.5	800
16	24.5	1,270
25	29.5	1,930
35	33.0	2,550

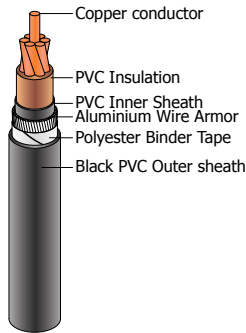
Application:

For building wire installed in donduit in dry location and interwiring in swich board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

NYR(AL)Y 1 x (10 - 500) mm² 0.6/1 kV

Cu / PVC / AWA / PVC

(Copper Conductor, PVC Insulated, Aluminium Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 300 sqmm supplied in wooden drum @ 1000 meters
400 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	13.5	285
16	14.5	365
25	16.5	495
35	17.5	610
50	19.0	765
70	21.0	995
95	23.5	1,300
120	26.5	1,680
150	28.5	2,000
185	31.0	2,415
240	34.0	3,070
300	37.0	3,745
400	42.0	4,835
500	46.0	5,970

Application:

For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 70 °C Min. (M.Ω.km)	(mH/km)		
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

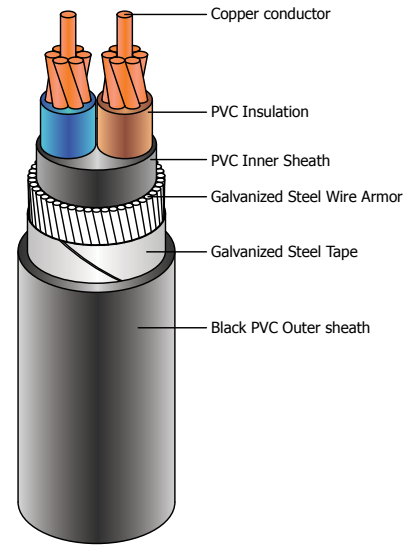
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.460	80	98	1.13
16	1.15	1.376	40	0.429	105	129	1.81
25	0.727	0.870	40	0.401	140	169	2.82
35	0.524	0.627	40	0.382	175	210	3.95
50	0.387	0.463	30	0.364	215	250	5.65
70	0.268	0.321	30	0.345	270	310	7.91
95	0.193	0.232	30	0.333	335	375	10.7
120	0.153	0.184	30	0.325	390	425	13.56
150	0.124	0.150	20	0.318	445	480	16.94
185	0.0991	0.120	20	0.310	510	550	20.90
240	0.0754	0.093	20	0.302	620	640	27.11
300	0.0601	0.075	20	0.296	710	730	33.89
400	0.0470	0.060	20	0.296	850	855	40.06
500	0.0366	0.049	20	0.289	1000	990	50.08

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 2 x (10 - 300) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)			in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

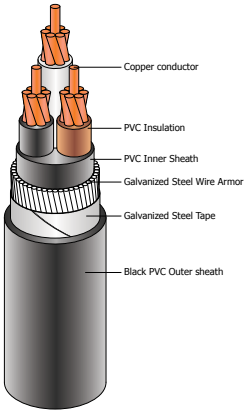
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYRGbY 3 x (10 - 400) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2



Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)			in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

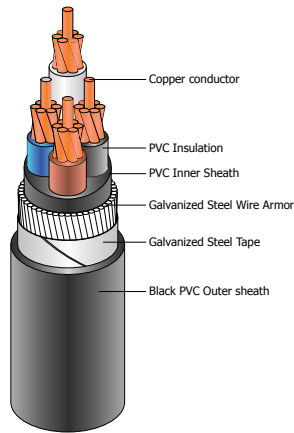
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYRgby 4 x (10 - 400) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2



Application:
For installation in ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stress may occur during installation or operation.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	23.0	1,150
16	27.0	1,805
25	31.0	2,455
35	34.0	3,055
50	37.0	3,765
70	41.0	4,790
95	48.0	6,605
120	51.0	7,855
150	57.0	9,345
185	62.0	11,255
240	70.0	14,840
300	76.0	17,885
400	85.0	22,325

Electrical Data

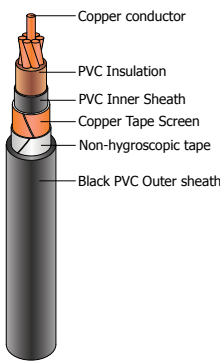
Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	0.269	60	69	1.13
16	1.15	1.376	0.255	80	89	1.81
25	0.727	0.870	0.255	105	116	2.82
35	0.524	0.627	0.246	130	138	3.95
50	0.387	0.464	0.247	160	165	5.65
70	0.268	0.321	0.238	200	205	7.91
95	0.193	0.232	0.238	245	245	10.7
120	0.153	0.184	0.233	285	285	13.56
150	0.124	0.150	0.233	325	315	16.94
185	0.0991	0.121	0.233	370	355	20.9
240	0.0754	0.093	0.232	435	415	27.11
300	0.0601	0.075	0.231	500	465	33.89
400	0.0470	0.060	0.229	600	535	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 1



Application:
For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
Standard Packing
1.5 - 300 sqmm supplied in wooden drum @ 1000 meters
400 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	9.0	120
2.5	9.5	140
4	10.5	175
6	11.0	205
10	12.0	260
16	13.0	335
25	15.0	460
35	16.0	575
50	17.5	725
70	19.5	950
95	22.0	1,260
120	23.5	1,520
150	25.5	1,830
185	28.0	2,235
240	31.0	2,865
300	34.5	3,550
400	38.0	4,490
500	42.0	5,605

Electrical Data

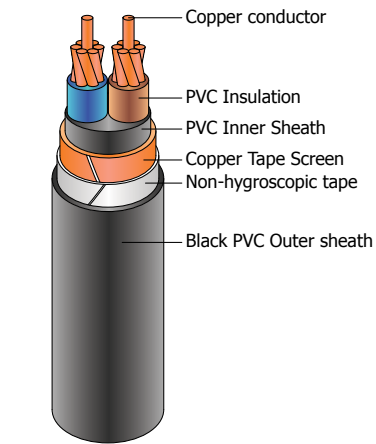
Nom Cross Section Area mm²	Conductor		Insulation Resistance at 20 °C Min. (M.Ω.km)	Inductance (mH/km)	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)			in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.531	26	33	0.17
2.5	7.41	8.866	50	0.491	35	45	0.28
4	4.61	5.516	50	0.464	46	58	0.45
6	3.08	3.685	50	0.436	58	74	0.68
10	1.83	2.190	50	0.401	80	98	1.13
16	1.15	1.376	40	0.374	105	129	1.81
25	0.727	0.870	40	0.352	140	169	2.82
35	0.524	0.627	40	0.336	175	210	3.95
50	0.387	0.463	30	0.323	215	250	5.65
70	0.268	0.321	30	0.307	270	310	7.91
95	0.193	0.232	30	0.298	335	375	10.7
120	0.153	0.184	30	0.289	390	425	13.56
150	0.124	0.150	20	0.285	445	480	16.94
185	0.0991	0.12	20	0.280	510	550	20.9
240	0.0754	0.093	20	0.273	620	640	27.11
300	0.0601	0.075	20	0.270	710	730	33.89
400	0.0470	0.060	20	0.268	850	855	40.06
500	0.0366	0.049	20	0.263	1000	990	50.08

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 1



Application:

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	12.5	235
2.5	13.0	280
4	15.0	375
6	16.0	445
10	18.0	590
16	20.0	780
25	23.5	1,115
35	26.0	1,405
50	30.0	1,830
70	34.0	2,465
95	38.5	3,310
120	42.5	4,015
150	47.0	4,935
185	52.0	6,055
240	58.5	7,855
300	64.5	9,625

Electrical Data

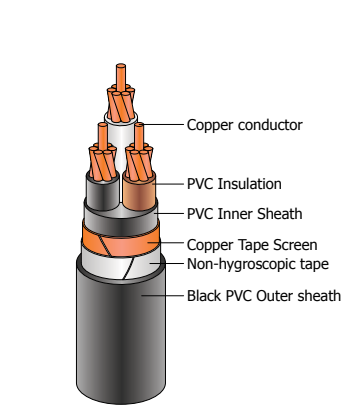
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	180	3.95
50	0.387	0.464	30	0.247	180	210	5.65
70	0.268	0.321	30	0.238	230	260	7.91
95	0.193	0.232	30	0.238	280	315	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 1



Application:

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Electrical Data

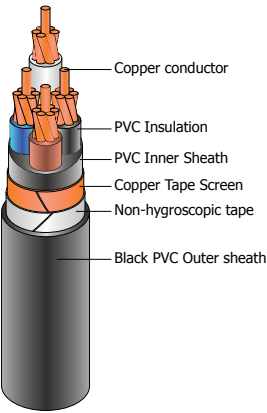
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 1



Application:

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

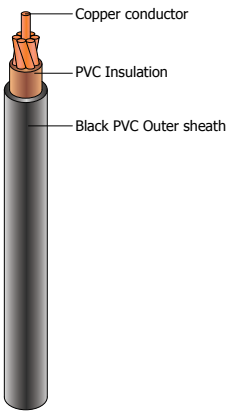
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.5	300
2.5	15.0	365
4	17.0	505
6	18.5	620
10	21.0	855
16	23.5	1,160
25	27.5	1,690
35	30.5	2,190
50	32.0	2,780
70	36.5	3,725
95	42.0	5,060
120	45.5	6,215
150	51.0	7,570
185	56.0	9,445
240	62.5	12,105
300	68.5	14,990

NY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 : 1994 & SNI IEC 60502 - 1 : 2009



Application:

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape
16 sqmm supplied in non compacted circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 meters
16 - 300 sqmm supplied in wooden drum @ 1000 meters
400 - 500 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	6.0	53
2.5	6.5	65
4	7.5	91
6	8.0	114
10	9.0	162
16	10.0	225
25	12.0	334
35	13.0	437
50	14.5	571
70	16.5	779
95	19.0	1,069
120	20.5	1,315
150	23.0	1,615
185	25.0	2,005
240	28.5	2,610
300	31.5	3,230
400	35.0	4,130
500	39.0	5,200

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.459	26	33	0.17
2.5	7.41	8.866	50	0.423	35	45	0.28
4	4.61	5.516	50	0.404	46	58	0.45
6	3.08	3.685	50	0.380	58	74	0.68
10	1.83	2.190	50	0.350	80	98	1.13
16	1.15	1.376	40	0.327	105	129	1.81
25	0.727	0.870	40	0.312	140	169	2.82
35	0.524	0.627	40	0.299	175	210	3.95
50	0.387	0.464	30	0.290	215	250	5.65
70	0.268	0.321	30	0.278	270	310	7.91
95	0.193	0.232	30	0.274	335	375	10.7
120	0.153	0.184	30	0.267	390	425	13.56
150	0.124	0.150	20	0.266	445	480	16.94
185	0.0991	0.121	20	0.264	510	550	20.9
240	0.0754	0.093	20	0.261	620	640	27.11
300	0.0601	0.075	20	0.258	710	730	33.89
400	0.0470	0.061	20	0.256	850	855	40.06
500	0.0366	0.049	20	0.252	1000	990	50.08

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NY
Y
2
x
(
1.5
-
400
)
mm²
0.6/1
kV

Cu
/
PVC
/
PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1, SNI IEC 60502 - 1 & IEC 60502 - 1

Copper conductor

PVC Insulation

PVC Inner sheath

Black PVC Outer sheath

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical
Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NY
Y
3
x
(
1.5
-
400
)
mm²
0.6/1
kV

Cu
/
PVC
/
PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1, SNI IEC 60502 - 1 & IEC 60502 - 1

Copper conductor

PVC Insulation

PVC Inner sheath

Black PVC Outer sheath

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Electrical
Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NYN 4 x (1.5 - 500) mm² 0.6/1 kV

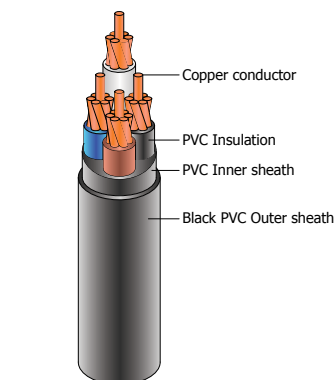
Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SPLN 43 - 1, SNI IEC 60502 - 1 & IEC 60502 - 1



PT VOKSEL ELECTRIC Tbk.



Application:

Power cable : Indoors, cable trunking, out-doors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request:

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen

Note:

Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 35 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum $\pm 2\%$

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
1.5	13.5	260
2.5	14.5	325
4	17.0	455
6	18.0	565
10	20.5	785
16	23.0	1,085
25	27.0	1,595
35	30.0	2,070
50	32.0	2,470
70	36.5	3,345
95	42.0	4,545
120	45.0	5,630
150	51.0	6,850
185	56.0	8,575
240	62.5	11,048
300	68.5	13,705
400	78.0	17,570

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



PT VOKSEL ELECTRIC Tbk.

MEDIUM VOLTAGE CABLE

MEDIUM VOLTAGE CABLE



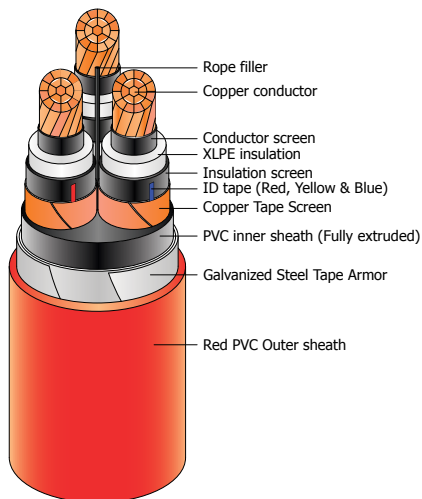
N2XSEBY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen,
PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



PT VOKSEL ELECTRIC Tbk.



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum $\pm 2\%$

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
35	41.5	3,070
50	45.0	3,810
70	49.0	4,685
95	52.5	5,695
120	56.5	6,650
150	59.5	7,855
185	63.0	9,185
240	68.0	11,170
300	76.0	13,645

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

PREVIEW

Electrical Data

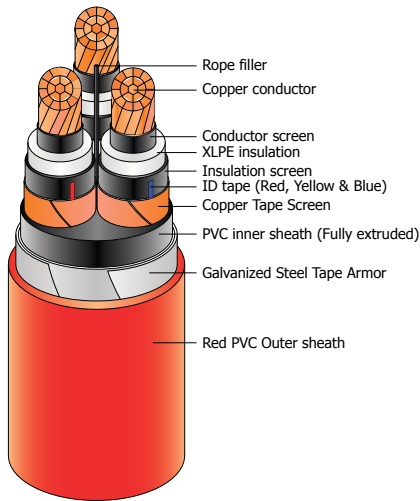
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	172	154	5.20	1.03
50	0.387	0.494	0.328	205	181	7.43	1.03
70	0.268	0.342	0.310	253	220	10.40	1.03
95	0.193	0.247	0.298	307	263	14.11	1.03
120	0.153	0.196	0.286	352	298	17.83	1.03
150	0.124	0.159	0.279	397	332	22.29	1.03
185	0.0991	0.128	0.272	453	374	27.49	1.03
240	0.0754	0.098	0.266	529	431	35.66	1.37
300	0.0601	0.079	0.259	599	482	44.57	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEBY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	172	154	5.20	1.03
50	0.387	0.494	0.350	205	181	7.43	1.03
70	0.268	0.342	0.330	253	220	10.40	1.03
95	0.193	0.247	0.316	307	263	14.11	1.03
120	0.153	0.196	0.303	352	298	17.83	1.03
150	0.124	0.159	0.295	397	332	22.29	1.03
185	0.0991	0.128	0.287	453	374	27.49	1.03
240	0.0754	0.098	0.279	529	431	35.66	1.37
300	0.0601	0.079	0.268	599	482	44.57	1.37

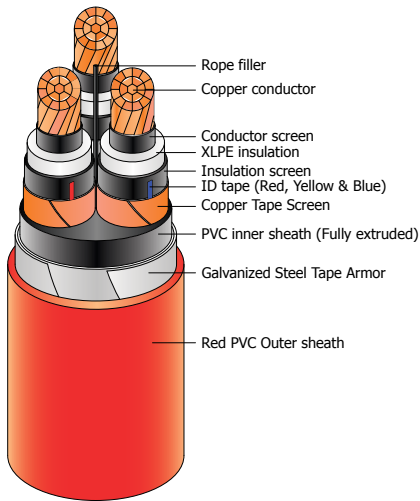
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEBY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	172	154	5.20	1.03
50	0.387	0.494	0.374	205	181	7.43	1.03
70	0.268	0.342	0.352	253	220	10.40	1.03
95	0.193	0.247	0.337	307	263	14.11	1.03
120	0.153	0.196	0.322	352	298	17.83	1.03
150	0.124	0.159	0.313	397	332	22.29	1.03
185	0.0991	0.128	0.304	453	374	27.49	1.03
240	0.0754	0.098	0.295	529	431	35.66	1.37
300	0.0601	0.079	0.282	599	482	44.57	1.37

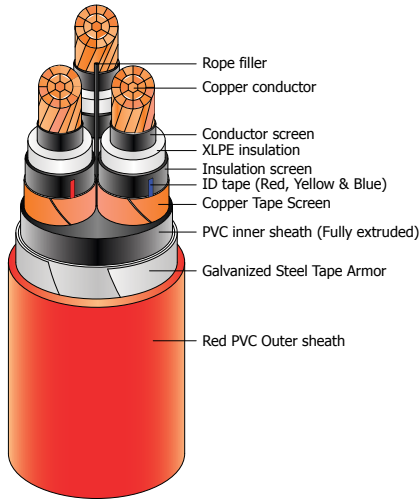
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEBY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	172	154	5.20	1.03
50	0.387	0.494	0.394	205	181	7.43	1.03
70	0.268	0.342	0.370	253	220	10.40	1.03
95	0.193	0.247	0.353	307	263	14.11	1.03
120	0.153	0.196	0.338	352	298	17.83	1.03
150	0.124	0.159	0.328	397	332	22.29	1.03
185	0.0991	0.128	0.319	453	374	27.49	1.03
240	0.0754	0.098	0.308	529	431	35.66	1.37
300	0.0601	0.079	0.294	599	482	44.57	1.37

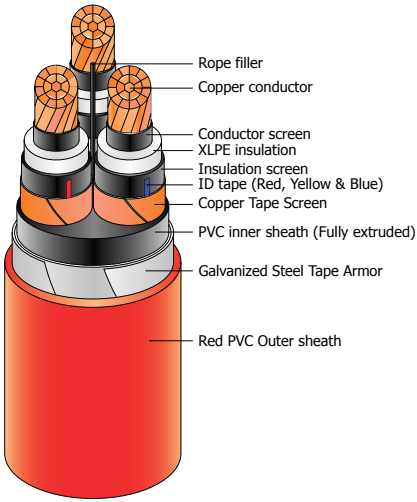
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEBY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	172	154	5.20	1.03
50	0.387	0.494	0.436	205	181	7.43	1.03
70	0.268	0.342	0.409	253	220	10.40	1.03
95	0.193	0.247	0.390	307	263	14.11	1.03
120	0.153	0.196	0.373	352	298	17.83	1.03
150	0.124	0.159	0.362	397	332	22.29	1.03
185	0.0991	0.128	0.351	453	374	27.49	1.03
240	0.0754	0.098	0.338	529	431	35.66	1.37
300	0.0601	0.079	0.322	599	482	44.57	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



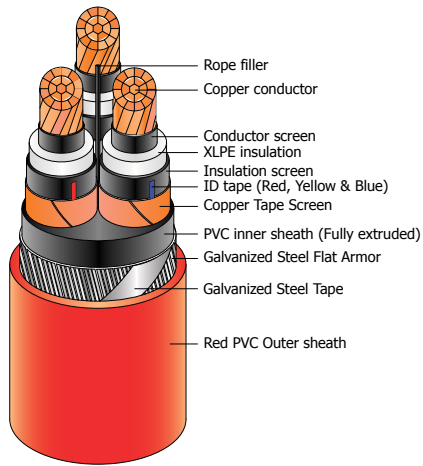
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	69.0	6,325
50	72.0	7,170
70	76.5	8,330
95	81.5	10,230
120	85.0	11,330
150	88.0	12,705
185	91.5	14,240
240	96.5	16,525
300	103.0	19,145

N2XSEFGbY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	172	154	5.20	1.03
50	0.387	0.494	0.328	205	181	7.43	1.03
70	0.268	0.342	0.310	253	220	10.40	1.03
95	0.193	0.247	0.298	307	263	14.11	1.03
120	0.153	0.196	0.286	352	298	17.83	1.03
150	0.124	0.159	0.279	397	332	22.29	1.03
185	0.0991	0.128	0.272	453	374	27.49	1.03
240	0.0754	0.098	0.266	529	431	35.66	1.37
300	0.0601	0.079	0.259	599	482	44.57	1.37

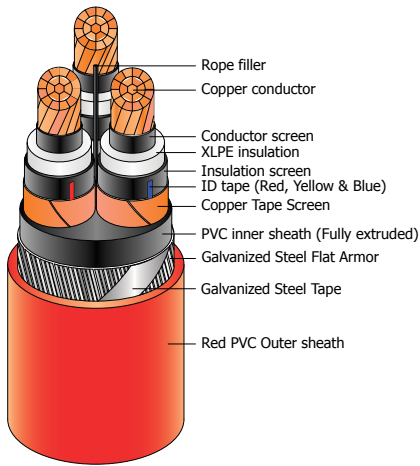
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEFGbY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	172	154	5.20	1.03
50	0.387	0.494	0.350	205	181	7.43	1.03
70	0.268	0.342	0.330	253	220	10.40	1.03
95	0.193	0.247	0.316	307	263	14.11	1.03
120	0.153	0.196	0.303	352	298	17.83	1.03
150	0.124	0.159	0.295	397	332	22.29	1.03
185	0.0991	0.128	0.287	453	374	27.49	1.03
240	0.0754	0.098	0.279	529	431	35.66	1.37
300	0.0601	0.079	0.268	599	482	44.57	1.37

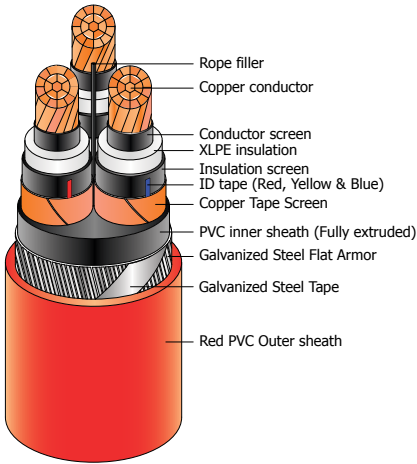
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEFGbY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	52.0	4,455
50	55.0	5,225
70	59.5	6,270
95	63.0	7,375
120	66.5	8,365
150	69.5	9,640
185	73.5	11,135
240	78.0	13,170
300	84.5	15,580

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	172	154	5.20	1.03
50	0.387	0.494	0.374	205	181	7.43	1.03
70	0.268	0.342	0.352	253	220	10.40	1.03
95	0.193	0.247	0.337	307	263	14.11	1.03
120	0.153	0.196	0.322	352	298	17.83	1.03
150	0.124	0.159	0.313	397	332	22.29	1.03
185	0.0991	0.128	0.304	453	374	27.49	1.03
240	0.0754	0.098	0.295	529	431	35.66	1.37
300	0.0601	0.079	0.282	599	482	44.57	1.37

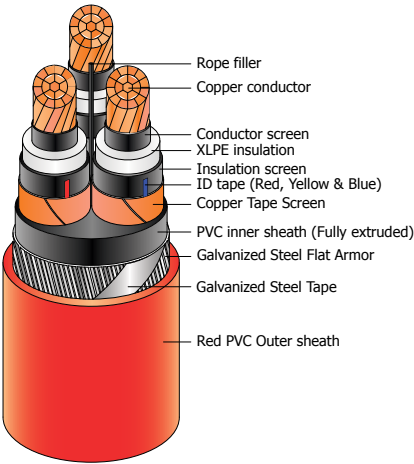
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEFGbY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	57.0	5,115
50	60.0	5,915
70	64.0	6,935
95	68.0	8,075
120	71.5	9,090
150	74.5	10,470
185	78.0	11,925
240	83.0	13,995
300	89.5	16,465

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	172	154	5.20	1.03
50	0.387	0.494	0.394	205	181	7.43	1.03
70	0.268	0.342	0.370	253	220	10.40	1.03
95	0.193	0.247	0.353	307	263	14.11	1.03
120	0.153	0.196	0.338	352	298	17.83	1.03
150	0.124	0.159	0.328	397	332	22.29	1.03
185	0.0991	0.128	0.319	453	374	27.49	1.03
240	0.0754	0.098	0.308	529	431	35.66	1.37
300	0.0601	0.079	0.294	599	482	44.57	1.37

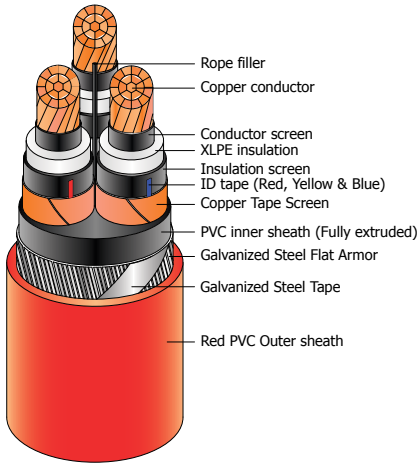
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEFGbY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	69.0	6,800
50	72.0	7,665
70	76.5	8,860
95	80.5	10,085
120	84.0	11,180
150	87.0	12,550
185	90.5	14,080
240	95.5	16,355
300	102.0	18,970

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	172	154	5.20	1.03
50	0.387	0.494	0.436	205	181	7.43	1.03
70	0.268	0.342	0.409	253	220	10.40	1.03
95	0.193	0.247	0.390	307	263	14.11	1.03
120	0.153	0.196	0.373	352	298	17.83	1.03
150	0.124	0.159	0.362	397	332	22.29	1.03
185	0.0991	0.128	0.351	453	374	27.49	1.03
240	0.0754	0.098	0.338	529	431	35.66	1.37
300	0.0601	0.079	0.322	599	482	44.57	1.37

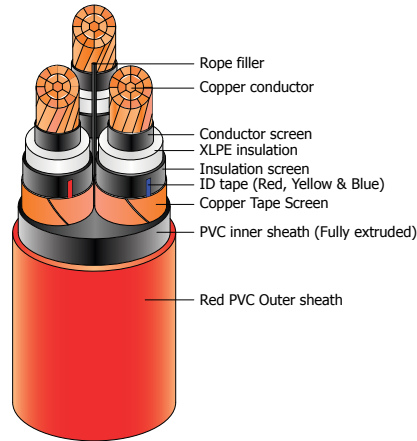
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	170	153	5.20	1.03
50	0.387	0.494	0.328	204	181	7.43	1.03
70	0.268	0.342	0.310	253	221	10.40	1.03
95	0.193	0.247	0.298	304	262	14.11	1.03
120	0.153	0.196	0.286	351	298	17.83	1.03
150	0.124	0.159	0.279	398	334	22.29	1.03
185	0.0991	0.128	0.272	455	377	27.49	1.03
240	0.0754	0.098	0.266	531	434	35.66	1.37
300	0.0601	0.079	0.259	606	489	44.57	1.37

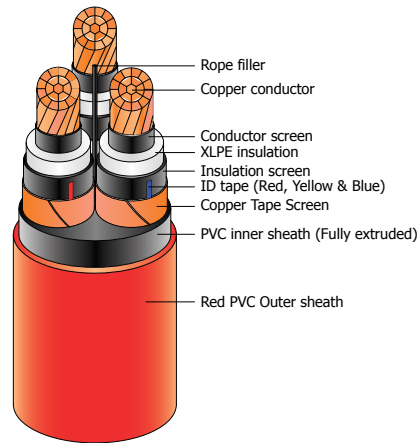
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.



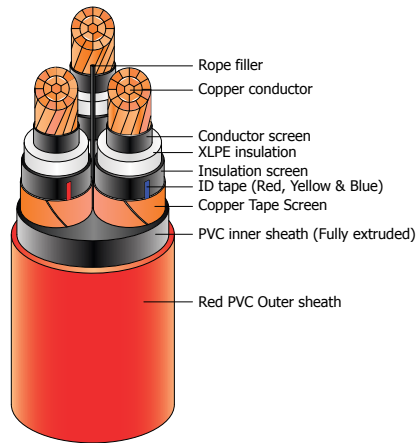
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	44.0	2,895
50	47.0	3,565
70	51.0	4,415
95	55.5	5,455
120	59.0	6,325
150	62.0	7,510
185	65.5	8,815
240	70.0	10,695
300	76.0	12,970

N2XSEY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.



Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	49.5	3,380
50	52.5	4,085
70	57.0	5,030
95	60.5	6,055
120	64.0	6,960
150	67.0	8,165
185	71.0	9,580
240	75.5	11,510
300	82.0	13,775

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	170	153	5.20	1.03
50	0.387	0.494	0.350	204	181	7.43	1.03
70	0.268	0.342	0.330	253	221	10.40	1.03
95	0.193	0.247	0.316	304	262	14.11	1.03
120	0.153	0.196	0.303	351	298	17.83	1.03
150	0.124	0.159	0.295	398	334	22.29	1.03
185	0.0991	0.128	0.287	455	377	27.49	1.03
240	0.0754	0.098	0.279	531	434	35.66	1.37
300	0.0601	0.079	0.268	606	489	44.57	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

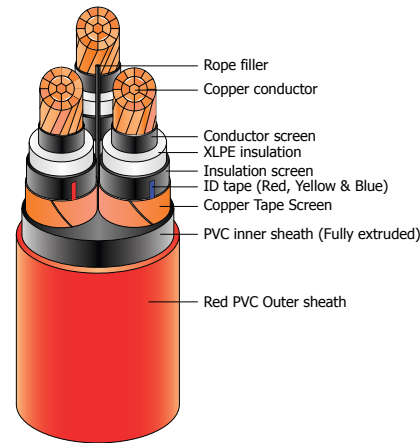
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	170	153	5.20	1.03
50	0.387	0.494	0.374	204	181	7.43	1.03
70	0.268	0.342	0.352	253	221	10.40	1.03
95	0.193	0.247	0.337	304	262	14.11	1.03
120	0.153	0.196	0.322	351	298	17.83	1.03
150	0.124	0.159	0.313	398	334	22.29	1.03
185	0.0991	0.128	0.304	455	377	27.49	1.03
240	0.0754	0.098	0.295	531	434	35.66	1.37
300	0.0601	0.079	0.282	606	489	44.57	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	170	153	5.20	1.03
50	0.387	0.494	0.394	204	181	7.43	1.03
70	0.268	0.342	0.370	253	221	10.40	1.03
95	0.193	0.247	0.353	304	262	14.11	1.03
120	0.153	0.196	0.338	351	298	17.83	1.03
150	0.124	0.159	0.328	398	334	22.29	1.03
185	0.0991	0.128	0.319	455	377	27.49	1.03
240	0.0754	0.098	0.308	531	434	35.66	1.37
300	0.0601	0.079	0.294	606	489	44.57	1.37

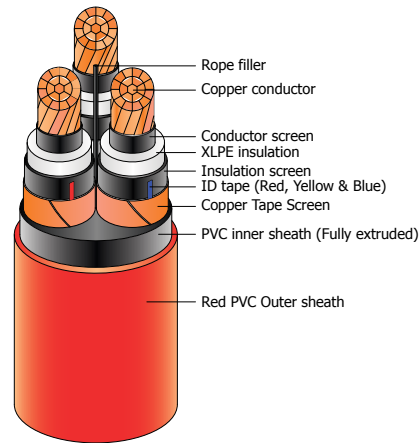
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	170	153	5.20	1.03
50	0.387	0.494	0.436	204	181	7.43	1.03
70	0.268	0.342	0.409	253	221	10.40	1.03
95	0.193	0.247	0.390	304	262	14.11	1.03
120	0.153	0.196	0.373	351	298	17.83	1.03
150	0.124	0.159	0.362	398	334	22.29	1.03
185	0.0991	0.128	0.351	455	377	27.49	1.03
240	0.0754	0.098	0.338	531	434	35.66	1.37
300	0.0601	0.079	0.322	606	489	44.57	1.37

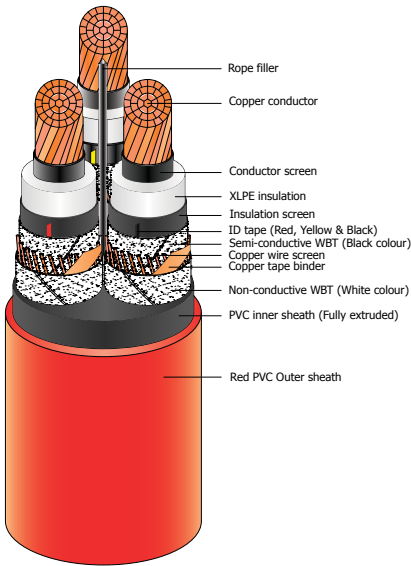
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
35	48.0	3,370
50	51.0	4,025
70	55.0	4,830
95	59.0	5,885
120	62.5	6,745
150	65.5	8,185
185	69.0	9,485
240	74.5	11,500
300	82.0	13,825

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	170	153	5.20	2.85
50	0.387	0.494	0.364	204	181	7.43	2.85
70	0.268	0.342	0.343	253	221	10.40	2.85
95	0.193	0.247	0.328	304	262	14.11	2.85
120	0.153	0.196	0.314	351	298	17.83	2.85
150	0.124	0.159	0.306	398	334	22.29	4.45
185	0.0991	0.128	0.297	455	377	27.49	4.45
240	0.0754	0.098	0.289	531	434	35.66	4.45
300	0.0601	0.079	0.282	606	489	44.57	4.45

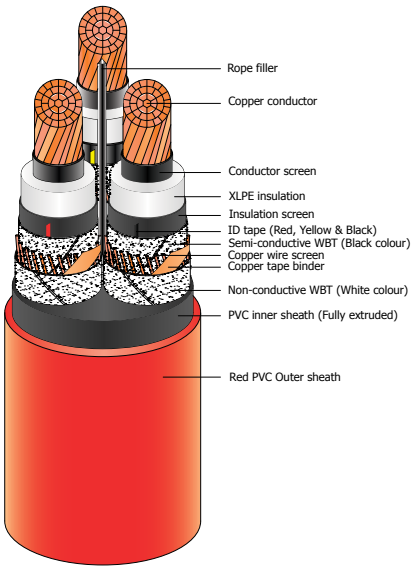
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	170	153	5.20	2.85
50	0.387	0.494	0.383	204	181	7.43	2.85
70	0.268	0.342	0.360	253	221	10.40	2.85
95	0.193	0.247	0.344	304	262	14.11	2.85
120	0.153	0.196	0.329	351	298	17.83	2.85
150	0.124	0.159	0.320	398	334	22.29	4.45
185	0.0991	0.128	0.310	455	377	27.49	4.45
240	0.0754	0.098	0.300	531	434	35.66	4.45
300	0.0601	0.079	0.287	606	489	44.57	4.45

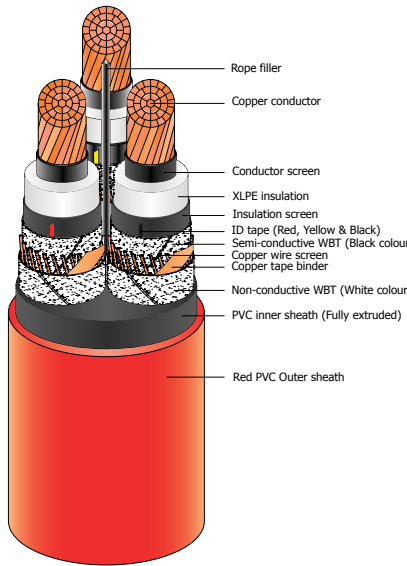
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
35	57.5	4,255
50	60.5	4,985
70	65.0	5,945
95	68.5	6,985
120	73.0	8,015
150	76.0	9,505
185	79.0	10,865
240	84.0	12,845
300	90.5	15,155

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	170	153	5.20	2.85
50	0.387	0.494	0.404	204	181	7.43	2.85
70	0.268	0.342	0.379	253	221	10.40	2.85
95	0.193	0.247	0.362	304	262	14.11	2.85
120	0.153	0.196	0.346	351	298	17.83	2.85
150	0.124	0.159	0.336	398	334	22.29	4.45
185	0.0991	0.128	0.326	455	377	27.49	4.45
240	0.0754	0.098	0.315	531	434	35.66	4.45
300	0.0601	0.079	0.301	606	489	44.57	4.45

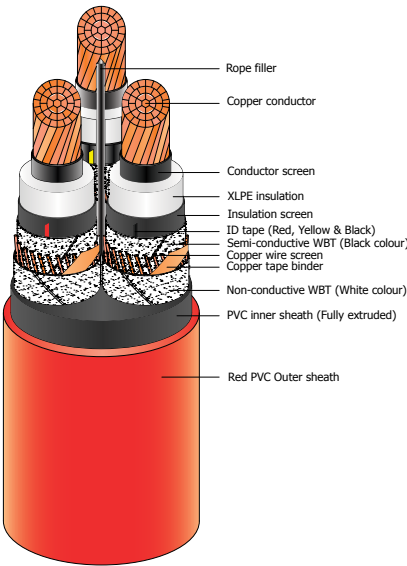
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	170	153	5.20	2.85
50	0.387	0.494	0.421	204	181	7.43	2.85
70	0.268	0.342	0.395	253	221	10.40	2.85
95	0.193	0.247	0.377	304	262	14.11	2.85
120	0.153	0.196	0.360	351	298	17.83	2.85
150	0.124	0.159	0.350	398	334	22.29	4.45
185	0.0991	0.128	0.339	455	377	27.49	4.45
240	0.0754	0.098	0.327	531	434	35.66	4.45
300	0.0601	0.079	0.312	606	489	44.57	4.45

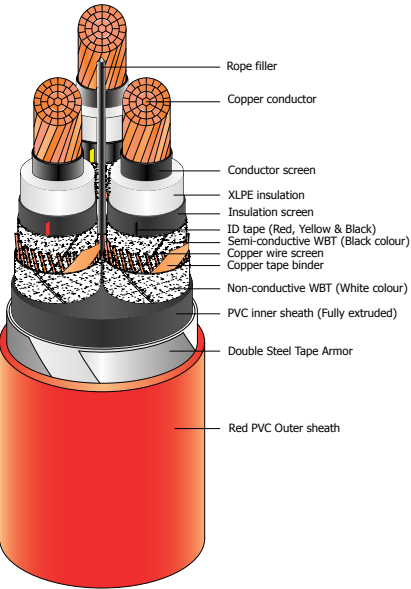
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEYBY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	50.0	4,055
50	53.0	4,770
70	57.5	5,695
95	61.5	6,755
120	65.0	7,675
150	68.0	9,215
185	72.0	10,605
240	78.5	13,330
300	86.0	15,880

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

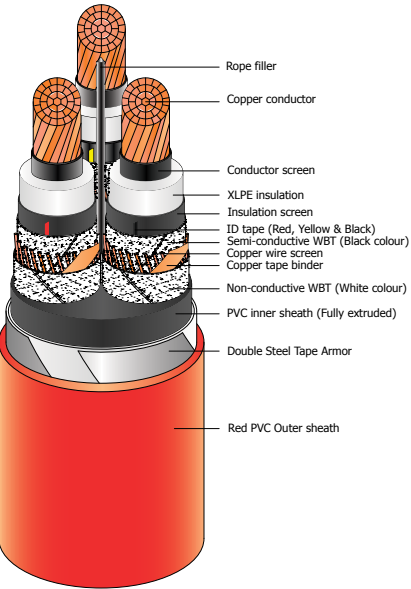
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	172	154	5.20	2.85
50	0.387	0.494	0.364	205	181	7.43	2.85
70	0.268	0.342	0.343	253	220	10.40	2.85
95	0.193	0.247	0.328	307	263	14.11	2.85
120	0.153	0.196	0.314	352	298	17.83	2.85
150	0.124	0.159	0.306	397	332	22.29	4.45
185	0.0991	0.128	0.297	453	374	27.49	4.45
240	0.0754	0.098	0.289	529	431	35.66	4.45
300	0.0601	0.079	0.282	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEYBY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters

50 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	54.5	4,495
50	57.5	5,265
70	62.0	6,225
95	66.0	7,345
120	69.5	8,295
150	72.5	9,835
185	76.0	11,255
240	83.5	14,030
300	89.0	16,435

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

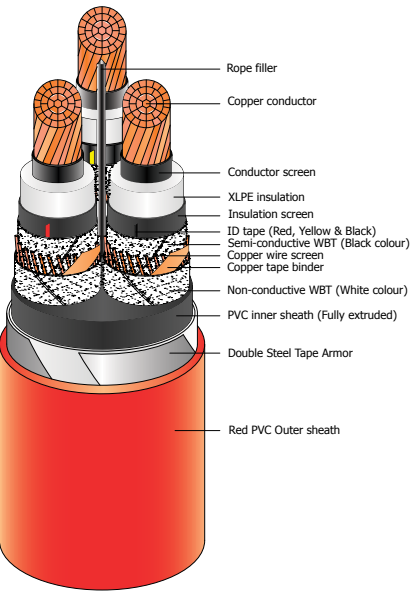
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	172	154	5.20	2.85
50	0.387	0.494	0.383	205	181	7.43	2.85
70	0.268	0.342	0.360	253	220	10.40	2.85
95	0.193	0.247	0.344	307	263	14.11	2.85
120	0.153	0.196	0.329	352	298	17.83	2.85
150	0.124	0.159	0.320	397	332	22.29	4.45
185	0.0991	0.128	0.310	453	374	27.49	4.45
240	0.0754	0.098	0.300	529	431	35.66	4.45
300	0.0601	0.079	0.287	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEYBY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	60.0	5,165
50	63.0	5,940
70	67.5	6,940
95	71.5	8,075
120	75.0	9,055
150	78.0	10,665
185	82.0	12,120
240	88.0	14,955
300	94.5	17,470

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

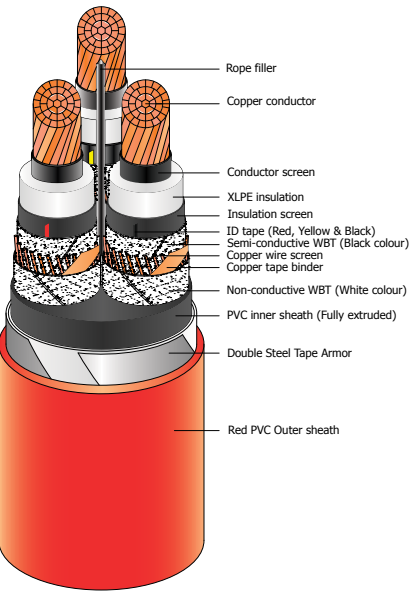
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	172	154	5.20	2.85
50	0.387	0.494	0.404	205	181	7.43	2.85
70	0.268	0.342	0.379	253	220	10.40	2.85
95	0.193	0.247	0.362	307	263	14.11	2.85
120	0.153	0.196	0.346	352	298	17.83	2.85
150	0.124	0.159	0.336	397	332	22.29	4.45
185	0.0991	0.128	0.326	453	374	27.49	4.45
240	0.0754	0.098	0.315	529	431	35.66	4.45
300	0.0601	0.079	0.301	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEYBY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	65.0	5,715
50	68.0	6,545
70	72.5	7,615
95	76.0	8,750
120	79.5	9,795
150	84.5	12,145
185	87.5	13,620
240	92.5	15,805
300	99.5	18,375

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

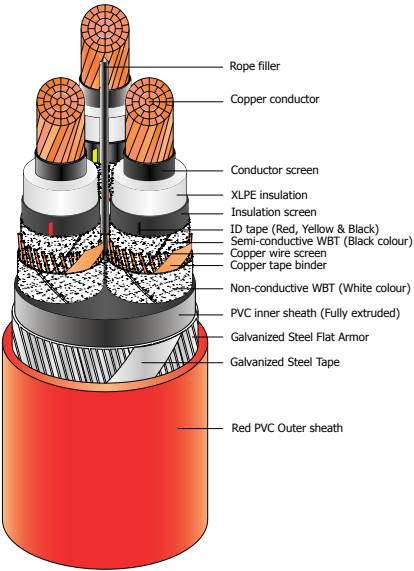
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	172	154	5.20	2.85
50	0.387	0.494	0.421	205	181	7.43	2.85
70	0.268	0.342	0.395	253	220	10.40	2.85
95	0.193	0.247	0.377	307	263	14.11	2.85
120	0.153	0.196	0.360	352	298	17.83	2.85
150	0.124	0.159	0.350	397	332	22.29	4.45
185	0.0991	0.128	0.339	453	374	27.49	4.45
240	0.0754	0.098	0.327	529	431	35.66	4.45
300	0.0601	0.079	0.312	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEYFGbY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	172	154	5.20	2.85
50	0.387	0.494	0.364	205	181	7.43	2.85
70	0.268	0.342	0.343	253	220	10.40	2.85
95	0.193	0.247	0.328	307	263	14.11	2.85
120	0.153	0.196	0.314	352	298	17.83	2.85
150	0.124	0.159	0.306	397	332	22.29	4.45
185	0.0991	0.128	0.297	453	374	27.49	4.45
240	0.0754	0.098	0.289	529	431	35.66	4.45
300	0.0601	0.079	0.282	599	482	44.57	4.45

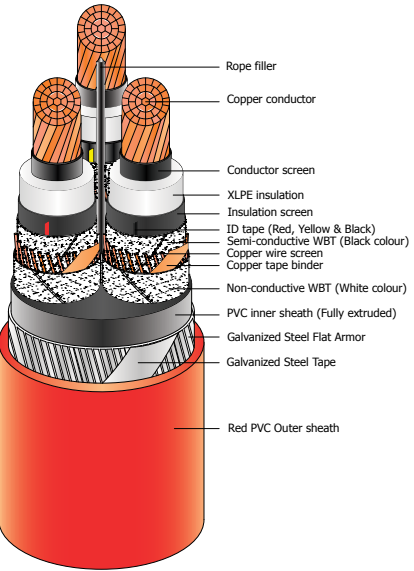
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEYFGbY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	172	154	5.20	2.85
50	0.387	0.494	0.383	205	181	7.43	2.85
70	0.268	0.342	0.360	253	220	10.40	2.85
95	0.193	0.247	0.344	307	263	14.11	2.85
120	0.153	0.196	0.329	352	298	17.83	2.85
150	0.124	0.159	0.320	397	332	22.29	4.45
185	0.0991	0.128	0.310	453	374	27.49	4.45
240	0.0754	0.098	0.300	529	431	35.66	4.45
300	0.0601	0.079	0.287	599	482	44.57	4.45

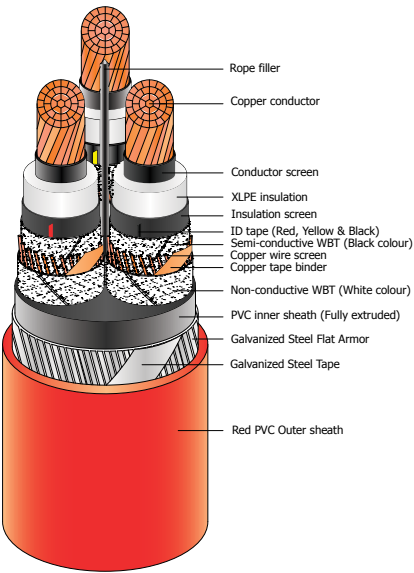
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEYFGbY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	60.5	5,570
50	63.5	6,365
70	67.5	7,395
95	71.5	8,555
120	75.0	9,600
150	78.5	11,195
185	82.0	12,680
240	87.0	14,815
300	93.5	17,320

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

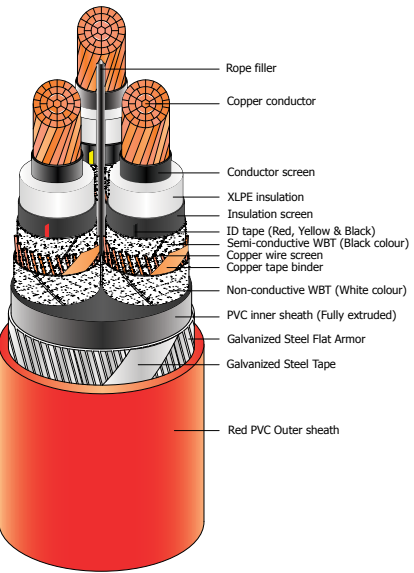
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	172	154	5.20	2.85
50	0.387	0.494	0.404	205	181	7.43	2.85
70	0.268	0.342	0.379	253	220	10.40	2.85
95	0.193	0.247	0.362	307	263	14.11	2.85
120	0.153	0.196	0.346	352	298	17.83	2.85
150	0.124	0.159	0.336	397	332	22.29	4.45
185	0.0991	0.128	0.326	453	374	27.49	4.45
240	0.0754	0.098	0.315	529	431	35.66	4.45
300	0.0601	0.079	0.301	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSEYFGbY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 300 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	65.5	6,215
50	68.5	7,070
70	73.0	8,145
95	76.5	9,310
120	80.0	10,385
150	83.5	12,050
185	87.0	13,525
240	92.0	15,700
300	98.5	18,220

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

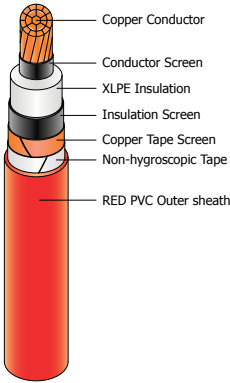
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	172	154	5.20	2.85
50	0.387	0.494	0.421	205	181	7.43	2.85
70	0.268	0.342	0.395	253	220	10.40	2.85
95	0.193	0.247	0.377	307	263	14.11	2.85
120	0.153	0.196	0.360	352	298	17.83	2.85
150	0.124	0.159	0.350	397	332	22.29	4.45
185	0.0991	0.128	0.339	453	374	27.49	4.45
240	0.0754	0.098	0.327	529	431	35.66	4.45
300	0.0601	0.079	0.312	599	482	44.57	4.45

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSy 1 x (35 - 630) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

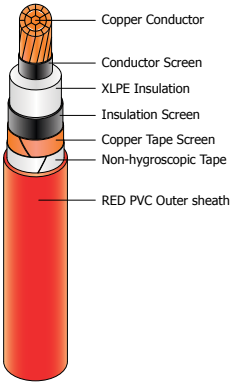
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	18.1	625
50	19.5	805
70	21.5	1,030
95	23.0	1,290
120	25.0	1,525
150	26.5	1,865
185	28.0	2,230
240	30.5	2,780
300	34.0	3,395
400	37.0	4,390
500	41.0	5,325
630	45.5	6,705

N2XSy 1 x (35 - 630) mm² 6/10 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	20.5	695
50	22.0	885
70	24.0	1,115
95	25.0	1,385
120	27.0	1,625
150	28.5	1,965
185	30.0	2,335
240	32.0	2,875
300	35.0	3,475
400	38.0	4,450
500	42.0	5,365
630	48.0	6,740

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	0.439	198	166	238	172	5.20	1.14
50	0.387	0.494	0.374	0.420	238	196	286	203	7.43	1.14
70	0.268	0.342	0.345	0.391	296	239	356	246	10.40	1.14
95	0.193	0.247	0.329	0.375	361	285	434	293	14.11	1.14
120	0.153	0.196	0.319	0.365	417	323	500	332	17.83	1.14
150	0.124	0.159	0.312	0.358	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.303	0.350	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.297	0.343	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.288	0.334	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.281	0.327	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.274	0.320	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.267	0.314	1118	846	1146	864	93.60	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

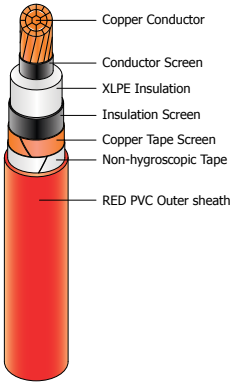
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.418	0.464	198	166	238	172	5.20	1.14
50	0.387	0.494	0.389	0.435	238	196	286	203	7.43	1.14
70	0.268	0.342	0.363	0.409	296	239	356	246	10.40	1.14
95	0.193	0.247	0.350	0.396	361	285	434	293	14.11	1.14
120	0.153	0.196	0.335	0.381	417	323	500	332	17.83	1.14
150	0.124	0.159	0.326	0.373	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.317	0.363	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.307	0.353	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.294	0.340	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.286	0.332	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.279	0.325	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.269	0.316	1118	846	1146	864	93.60	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSY 1 x (35 - 630) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:
For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

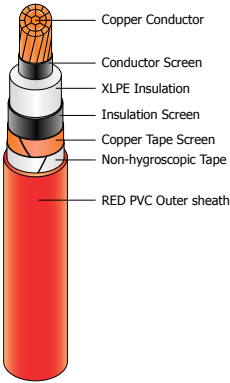
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	23.0	795
50	24.0	985
70	26.0	1,220
95	28.0	1,505
120	29.5	1,745
150	31.0	2,090
185	32.5	2,470
240	35.0	3,020
300	38.0	3,630
400	40.5	4,615
500	44.0	5,545
630	48.5	6,935

N2XSY 1 x (35 - 630) mm² 12/20 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:
For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	25.0	890
50	26.5	1,085
70	28.5	1,325
95	30.0	1,615
120	32.0	1,865
150	33.0	2,215
185	35.0	2,600
240	37.0	3,155
300	40.0	3,775
400	43.0	4,775
500	46.5	5,715
630	51.0	7,125

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.438	0.484	198	166	238	172	5.20	1.14
50	0.387	0.494	0.407	0.453	238	196	286	203	7.43	1.14
70	0.268	0.342	0.383	0.429	296	239	356	246	10.40	1.14
95	0.193	0.247	0.366	0.412	361	285	434	293	14.11	1.14
120	0.153	0.196	0.351	0.397	417	323	500	332	17.83	1.14
150	0.124	0.159	0.341	0.388	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.332	0.378	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.321	0.367	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.308	0.354	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.298	0.344	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.288	0.335	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.279	0.325	1118	846	1146	864	93.60	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

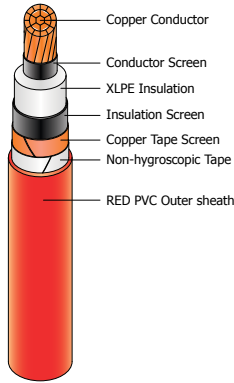
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.457	0.503	198	166	238	172	5.20	1.14
50	0.387	0.494	0.425	0.371	238	196	286	203	7.43	1.14
70	0.268	0.342	0.399	0.456	296	239	356	246	10.40	1.14
95	0.193	0.247	0.382	0.428	361	285	434	293	14.11	1.14
120	0.153	0.196	0.366	0.412	417	323	500	332	17.83	1.14
150	0.124	0.159	0.355	0.402	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.345	0.392	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.334	0.380	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.319	0.365	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.309	0.355	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.298	0.344	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.288	0.334	1118	846	1146	864	93.60	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSY 1 x (35 - 630) mm² 18/30 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	31.0	1,165
50	32.0	1,375
70	34.0	1,630
95	36.0	1,935
120	37.5	2,195
150	39.0	2,560
185	40.5	2,955
240	42.5	3,535
300	46.0	4,180
400	48.5	5,205
500	52.0	6,180
630	56.5	7,625

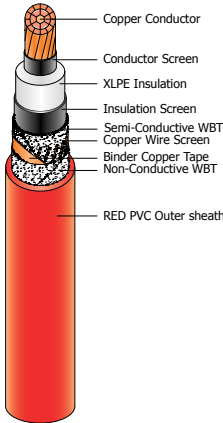
Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

N2XSY 1 x (35 - 630) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	24.5	915
50	25.5	1,095
70	27.5	1,320
95	29.0	1,585
120	30.5	1,820
150	32.0	2,245
185	33.5	2,610
240	35.5	3,150
300	39.0	3,755
400	42.0	4,835
500	46.0	5,760
630	50.0	7,130

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
35	0.524	0.668	0.497	0.544	198	166	238	172	5.20	1.14
50	0.387	0.494	0.463	0.510	238	196	286	203	7.43	1.14
70	0.268	0.342	0.435	0.482	296	239	356	246	10.40	1.14
95	0.193	0.247	0.416	0.462	361	285	434	293	14.11	1.14
120	0.153	0.196	0.398	0.445	417	323	500	332	17.83	1.14
150	0.124	0.159	0.387	0.433	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.375	0.422	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.362	0.408	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.346	0.392	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.334	0.380	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.321	0.367	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.309	0.356	1118	846	1146	864	93.60	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

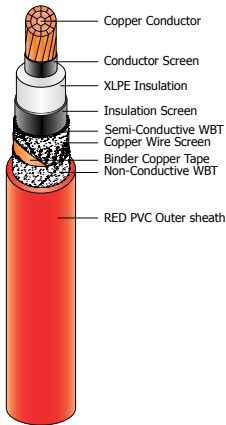
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
35	0.524	0.668	0.450	0.496	198	166	238	172	5.20	2.85
50	0.387	0.494	0.418	0.464	238	196	286	203	7.43	2.85
70	0.268	0.342	0.392	0.438	296	239	356	246	10.40	2.85
95	0.193	0.247	0.374	0.420	361	285	434	293	14.11	2.85
120	0.153	0.196	0.357	0.404	417	323	500	332	17.83	2.85
150	0.124	0.159	0.348	0.394	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.337	0.383	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.326	0.372	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.314	0.360	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.305	0.351	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.295	0.342	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.285	0.331	1118	846	1146	864	93.60	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSY 1 x (35 - 630) mm² 6/10 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

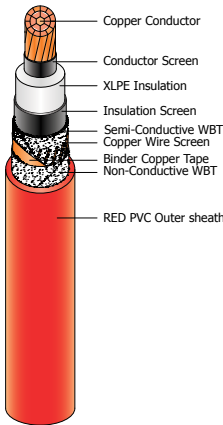
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	26.0	985
50	27.5	1,175
70	29.5	1,405
95	31.0	1,675
120	32.5	1,910
150	34.0	2,335
185	35.0	2,705
240	37.0	3,240
300	40.0	3,835
400	43.0	4,890
500	46.0	5,790
630	51.0	7,160

N2XSY 1 x (35 - 630) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	28.5	1,085
50	30.0	1,280
70	32.0	1,510
95	33.0	1,790
120	35.0	2,030
150	39.0	2,460
185	38.0	2,835
240	39.5	3,375
300	42.5	3,980
400	45.0	5,045
500	48.5	5,955
630	53.0	7,365

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.465	0.511	198	166	238	172	5.20	2.85
50	0.387	0.494	0.432	0.478	238	196	286	203	7.43	2.85
70	0.268	0.342	0.406	0.452	296	239	356	246	10.40	2.85
95	0.193	0.247	0.387	0.433	361	285	434	293	14.11	2.85
120	0.153	0.196	0.370	0.416	417	323	500	332	17.83	2.85
150	0.124	0.159	0.359	0.405	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.348	0.394	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.336	0.382	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.320	0.366	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.308	0.355	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.297	0.343	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.286	0.333	1118	846	1146	864	93.60	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

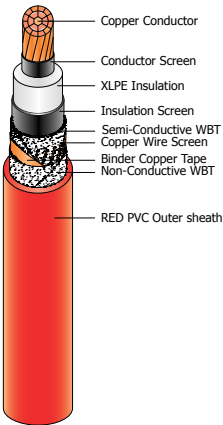
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.483	0.528	198	166	238	172	5.20	2.85
50	0.387	0.494	0.448	0.495	238	196	286	203	7.43	2.85
70	0.268	0.342	0.421	0.468	296	239	356	246	10.40	2.85
95	0.193	0.247	0.402	0.448	361	285	434	293	14.11	2.85
120	0.153	0.196	0.384	0.430	417	323	500	332	17.83	2.85
150	0.124	0.159	0.372	0.418	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.361	0.407	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.348	0.394	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.331	0.378	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.319	0.366	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.307	0.353	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.297	0.343	1118	846	1146	864	93.60	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XSY 1 x (35 - 630) mm² 12/20 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Application:
For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

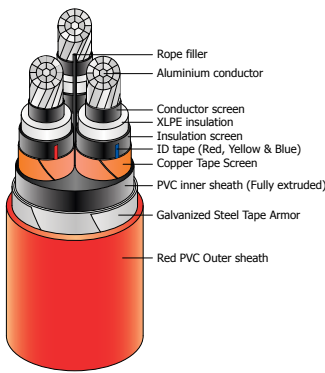
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
35	31.0	1,180
50	32.0	1,375
70	34.0	1,615
95	35.5	1,900
120	37.0	2,145
150	38.0	2,580
185	40.0	2,955
240	42.0	3,505
300	44.5	4,115
400	47.0	5,190
500	51.0	6,110
630	55.0	7,535

NA2XSEBY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	45.0	2,835
70	49.0	3,360
95	53.0	3,895
120	56.5	4,505
150	59.5	5,040
185	63.0	5,695
240	68.0	6,635
300	76.0	8,150
400	84.5	10,520

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.497	0.543	198	166	238	172	5.20	2.85
50	0.387	0.494	0.462	0.509	238	196	286	203	7.43	2.85
70	0.268	0.342	0.434	0.480	296	239	356	246	10.40	2.85
95	0.193	0.247	0.414	0.460	361	285	434	293	14.11	2.85
120	0.153	0.196	0.396	0.442	417	323	500	332	17.83	2.85
150	0.124	0.159	0.384	0.430	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.372	0.418	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.358	0.404	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.341	0.387	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.328	0.375	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.315	0.362	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.304	0.351	1118	846	1146	864	93.60	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

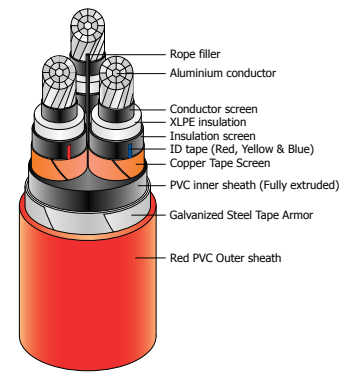
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C		
50	0.641	0.822	0.328	159	140	4.91	1.03
70	0.443	0.568	0.310	196	171	6.87	1.03
95	0.320	0.411	0.298	238	204	9.32	1.03
120	0.253	0.325	0.286	274	232	11.77	1.03
150	0.206	0.265	0.279	309	259	14.72	1.03
185	0.164	0.212	0.272	354	293	18.15	1.03
240	0.125	0.162	0.266	415	338	23.55	1.37
300	0.100	0.130	0.259	472	380	29.44	1.37
400	0.0778	0.102	0.255	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEBY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed,
Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation indoor, in ground direct
burried, for power station and switchgear, if
there is a risk that low mechanical damage
may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @
1000 meters
95 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

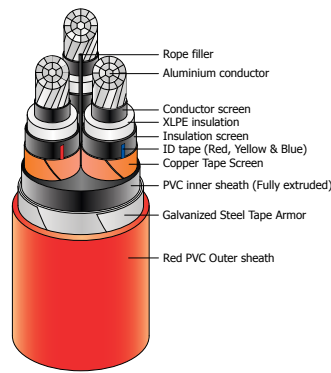
Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	49.0	3,285
70	53.5	3,845
95	57.5	4,465
120	61.0	5,050
150	64.0	5,610
185	67.5	6,290
240	72.0	7,195
300	79.0	8,615
400	86.5	10,870



NA2XSEBY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed,
Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation indoor, in ground direct
burried, for power station and switchgear, if
there is a risk that low mechanical damage
may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	54.5	3,885
70	59.0	4,540
95	63.0	5,140
120	66.5	5,760
150	69.5	6,345
185	73.0	7,135
240	77.5	8,095
300	85.5	10,240
400	91.5	11,860



Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.350	159	140	4.91	1.03
70	0.443	0.568	0.330	196	171	6.87	1.03
95	0.320	0.411	0.316	238	204	9.32	1.03
120	0.253	0.325	0.303	274	232	11.77	1.03
150	0.206	0.265	0.295	309	259	14.72	1.03
185	0.164	0.212	0.287	354	293	18.15	1.03
240	0.125	0.162	0.279	415	338	23.55	1.37
300	0.100	0.130	0.268	472	380	29.44	1.37
400	0.0778	0.102	0.260	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

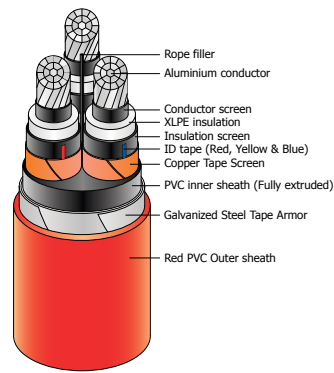
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	159	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	238	204	9.32	1.03
120	0.253	0.325	0.322	274	232	11.77	1.03
150	0.206	0.265	0.313	309	259	14.72	1.03
185	0.164	0.212	0.304	354	293	18.15	1.03
240	0.125	0.162	0.295	415	338	23.55	1.37
300	0.100	0.130	0.282	472	380	29.44	1.37
400	0.0778	0.102	0.273	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEBY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed,
Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation indoor, in ground direct
burried, for power station and switchgear, if
there is a risk that low mechanical damage
may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing
50 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

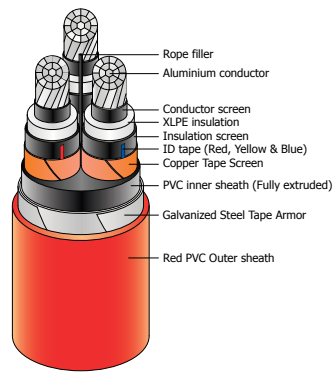
Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	60.0	4,530
70	64.0	5,170
95	67.5	5,805
120	71.0	6,450
150	74.5	7,140
185	78.0	7,890
240	84.0	9,610
300	90.5	11,130
400	97.0	12,910



NA2XSEBY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed,
Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation indoor, in ground direct
burried, for power station and switchgear, if
there is a risk that low mechanical damage
may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing
50 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	72.0	6,195
70	76.5	7,005
95	81.5	8,425
120	85.0	9,185
150	88.0	9,895
185	91.5	10,750
240	96.5	11,985
300	103.0	13,655
400	109.0	15,480



Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	159	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	238	204	9.32	1.03
120	0.253	0.325	0.338	274	232	11.77	1.03
150	0.206	0.265	0.328	309	259	14.72	1.03
185	0.164	0.212	0.319	354	293	18.15	1.03
240	0.125	0.162	0.308	415	338	23.55	1.37
300	0.100	0.130	0.294	472	380	29.44	1.37
400	0.0778	0.102	0.285	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

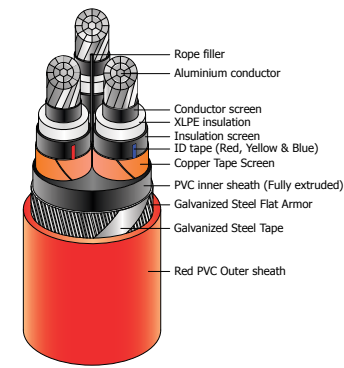
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	159	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	238	204	9.32	1.03
120	0.253	0.325	0.373	274	232	11.77	1.03
150	0.206	0.265	0.362	309	259	14.72	1.03
185	0.164	0.212	0.351	354	293	18.15	1.03
240	0.125	0.162	0.338	415	338	23.55	1.37
300	0.100	0.130	0.322	472	380	29.44	1.37
400	0.0778	0.102	0.310	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEFGbY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen,
PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation in the ground, indoors,
cable trunking and outdoors if increased
mechanical protection is required or where
high-pulling stresses may occur during
installation or operation.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @
1000 meters
95 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Electrical Data

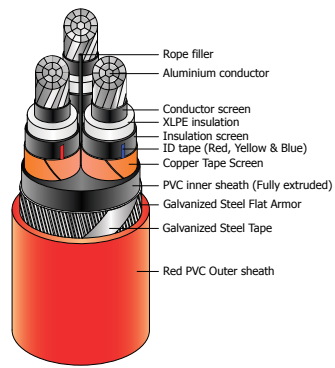
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.328	159	140	4.91	1.03
70	0.443	0.568	0.310	196	171	6.87	1.03
95	0.320	0.411	0.298	238	204	9.32	1.03
120	0.253	0.325	0.286	274	232	11.77	1.03
150	0.206	0.265	0.279	309	259	14.72	1.03
185	0.164	0.212	0.272	354	293	18.15	1.03
240	0.125	0.162	0.266	415	338	23.55	1.37
300	0.100	0.130	0.259	472	380	29.44	1.37
400	0.0778	0.102	0.255	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEFGbY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen,
PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
For installation in the ground, indoors,
cable trunking and outdoors if increased
mechanical protection is required or where
high-pulling stresses may occur during
installation or operation.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted
circular stranded (cm) conductor shape

Standard Packing

50 sqmm supplied in wooden drum @ 1000
meters
70 - 400 sqmm supplied in wooden drum on
available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	49.5	3,615
70	53.5	4,205
95	57.5	4,855
120	61.0	5,465
150	64.0	6,050
185	67.5	6,755
240	72.0	7,695
300	79.0	9,165
400	85.5	10,715

Electrical Data

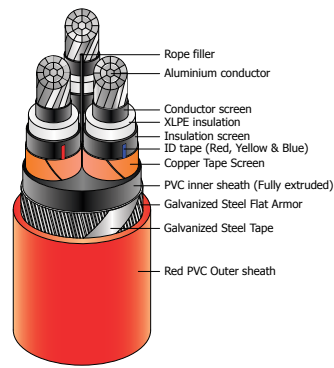
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.350	159	140	4.91	1.03
70	0.443	0.568	0.330	196	171	6.87	1.03
95	0.320	0.411	0.316	238	204	9.32	1.03
120	0.253	0.325	0.303	274	232	11.77	1.03
150	0.206	0.265	0.295	309	259	14.72	1.03
185	0.164	0.212	0.287	354	293	18.15	1.03
240	0.125	0.162	0.279	415	338	23.55	1.37
300	0.100	0.130	0.268	472	380	29.44	1.37
400	0.0778	0.102	0.260	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEFGbY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	55.0	4,255
70	59.5	4,945
95	63.0	5,575
120	66.5	6,215
150	69.5	6,825
185	73.5	7,645
240	78.0	8,635
300	84.5	10,090
400	90.5	11,700

Electrical Data

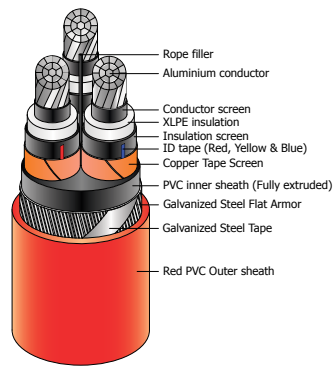
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	159	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	238	204	9.32	1.03
120	0.253	0.325	0.322	274	232	11.77	1.03
150	0.206	0.265	0.313	309	259	14.72	1.03
185	0.164	0.212	0.304	354	293	18.15	1.03
240	0.125	0.162	0.295	415	338	23.55	1.37
300	0.100	0.130	0.282	472	380	29.44	1.37
400	0.0778	0.102	0.273	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEFGbY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	60.0	4,940
70	64.0	5,610
95	68.0	6,270
120	71.5	6,945
150	74.5	7,660
185	78.0	8,435
240	83.0	9,465
300	89.5	10,976
400	96.0	12,740

Electrical Data

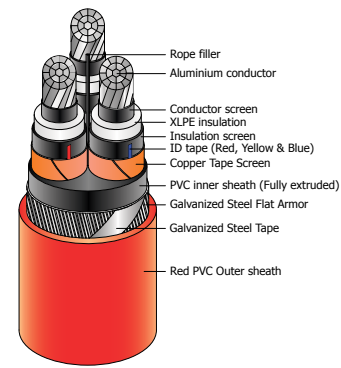
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	159	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	238	204	9.32	1.03
120	0.253	0.325	0.338	274	232	11.77	1.03
150	0.206	0.265	0.328	309	259	14.72	1.03
185	0.164	0.212	0.319	354	293	18.15	1.03
240	0.125	0.162	0.308	415	338	23.55	1.37
300	0.100	0.130	0.294	472	380	29.44	1.37
400	0.0778	0.102	0.285	545	432	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEFGbY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	72.0	6,695
70	76.5	7,535
95	80.5	8,280
120	84.0	9,035
150	87.0	9,740
185	90.5	10,590
240	95.5	11,820
300	102.0	13,480
400	108.0	15,290

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	159	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	238	204	9.32	1.03
120	0.253	0.325	0.373	274	232	11.77	1.03
150	0.206	0.265	0.362	309	259	14.72	1.03
185	0.164	0.212	0.351	354	293	18.15	1.03
240	0.125	0.162	0.338	415	338	23.55	1.37
300	0.100	0.130	0.322	472	380	29.44	1.37
400	0.0778	0.102	0.310	545	432	39.25	1.37

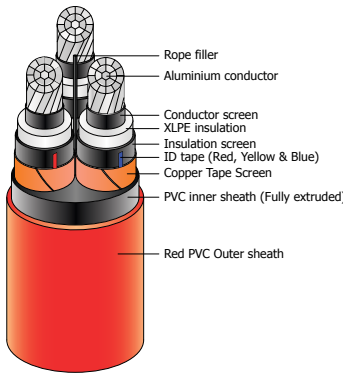
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NA2XSEY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	42.5	2,210
70	47.0	2,675
95	50.5	3,150
120	54.5	3,705
150	57.5	4,195
185	61.0	4,795
240	66.0	5,660
300	74.0	7,060
400	81.0	8,590

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.328	158	140	4.91	1.03
70	0.443	0.568	0.310	196	171	6.87	1.03
95	0.320	0.411	0.298	236	203	9.32	1.03
120	0.253	0.325	0.286	273	232	11.77	1.03
150	0.206	0.265	0.279	309	260	14.72	1.03
185	0.164	0.212	0.272	355	294	18.15	1.03
240	0.125	0.162	0.266	415	340	23.55	1.37
300	0.100	0.130	0.259	475	384	29.44	1.37
400	0.0778	0.102	0.255	552	438	39.25	1.37

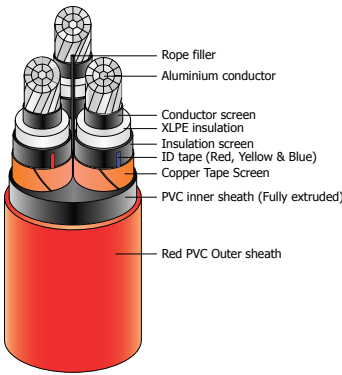
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



NA2XSEY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
50 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

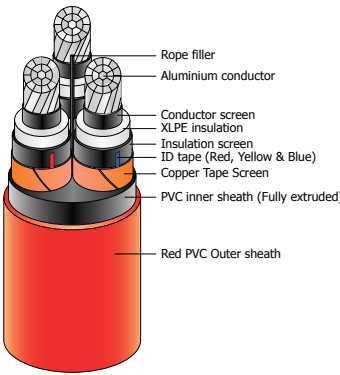
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	47.0	2,595
70	51.0	3,090
95	55.5	3,650
120	59.0	4,185
150	62.0	4,695
185	65.0	5,325
240	70.0	6,165
300	76.0	7,480
400	83.0	8,895

NA2XSEY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	53.0	3,155
70	57.5	3,750
95	61.0	4,300
120	64.5	4,870
150	67.5	5,415
185	71.5	6,150
240	76.0	7,045
300	82.5	8,355
400	88.5	9,835

PREVIEW

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.350	158	140	4.91	1.03
70	0.443	0.568	0.330	196	171	6.87	1.03
95	0.320	0.411	0.316	236	203	9.32	1.03
120	0.253	0.325	0.303	273	232	11.77	1.03
150	0.206	0.265	0.295	309	260	14.72	1.03
185	0.164	0.212	0.287	355	294	18.15	1.03
240	0.125	0.162	0.279	415	340	23.55	1.37
300	0.100	0.130	0.268	475	384	29.44	1.37
400	0.0778	0.102	0.260	552	438	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

PREVIEW

Electrical Data

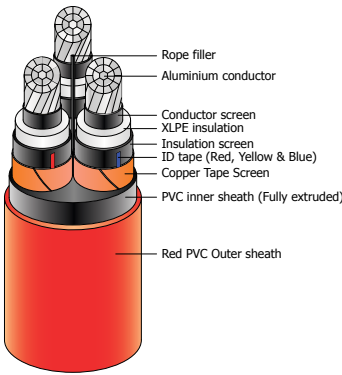
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	158	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	236	203	9.32	1.03
120	0.253	0.325	0.322	273	232	11.77	1.03
150	0.206	0.265	0.313	309	260	14.72	1.03
185	0.164	0.212	0.304	355	294	18.15	1.03
240	0.125	0.162	0.295	415	340	23.55	1.37
300	0.100	0.130	0.282	475	384	29.44	1.37
400	0.0778	0.102	0.273	552	438	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
50 sqmm supplied in wooden drum @ 1000 meters
70 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

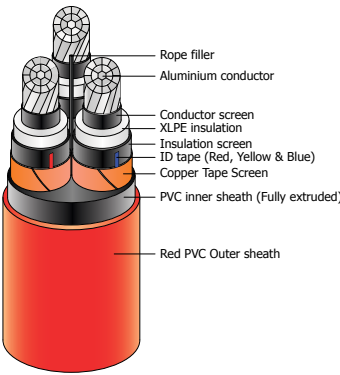
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	58.0	3,730
70	62.0	4,315
95	66.0	4,895
120	69.5	5,495
150	72.5	6,135
185	76.0	6,835
240	81.0	7,765
300	87.5	9,135
400	94.0	10,765

NA2XSEY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	70.0	5,165
70	74.5	5,905
95	78.0	6,565
120	81.5	7,245
150	84.5	7,885
185	88.0	8,655
240	93.0	9,775
300	99.5	11,285
400	105.5	12,965

PREVIEW

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	158	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	236	203	9.32	1.03
120	0.253	0.325	0.338	273	232	11.77	1.03
150	0.206	0.265	0.328	309	260	14.72	1.03
185	0.164	0.212	0.319	355	294	18.15	1.03
240	0.125	0.162	0.308	415	340	23.55	1.37
300	0.100	0.130	0.294	475	384	29.44	1.37
400	0.0778	0.102	0.285	552	438	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

PREVIEW

Electrical Data

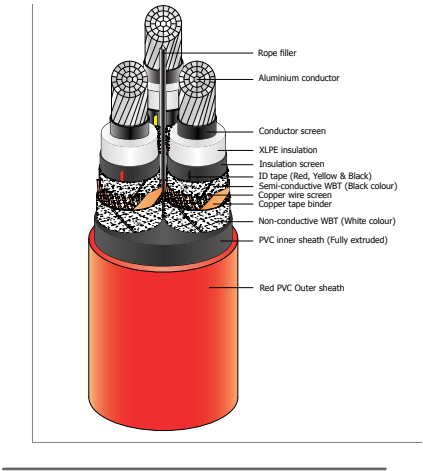
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	158	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	236	203	9.32	1.03
120	0.253	0.325	0.373	273	232	11.77	1.03
150	0.206	0.265	0.362	309	260	14.72	1.03
185	0.164	0.212	0.351	355	294	18.15	1.03
240	0.125	0.162	0.338	415	340	23.55	1.37
300	0.100	0.130	0.322	475	384	29.44	1.37
400	0.0778	0.102	0.310	552	438	39.25	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	51.0	3,045
70	55.0	3,505
95	59.0	4,075
120	62.5	4,605
150	65.5	5,375
185	69.0	5,990
240	74.5	6,965
300	82.0	8,335
400	89.0	10,175

PREVIEW

Electrical Data

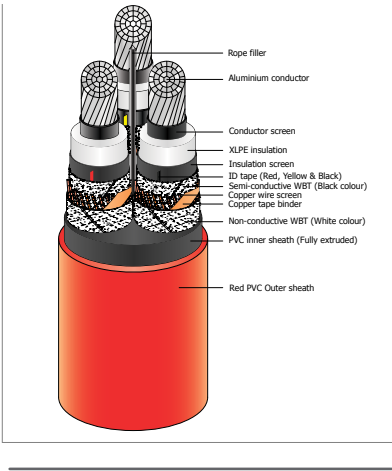
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	158	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	236	203	9.32	2.85
120	0.253	0.325	0.314	273	232	11.77	2.85
150	0.206	0.265	0.306	309	260	14.72	2.85
185	0.164	0.212	0.297	355	294	18.15	4.45
240	0.125	0.162	0.289	415	340	23.55	4.45
300	0.100	0.130	0.282	475	384	29.44	4.45
400	0.0778	0.102	0.274	552	438	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	55.5	3,500
70	60.0	4,045
95	63.5	4,575
120	67.0	5,125
150	70.0	5,920
185	73.5	6,565
240	78.5	7,525
300	85.0	8,805
400	91.0	10,545

PREVIEW

Electrical Data

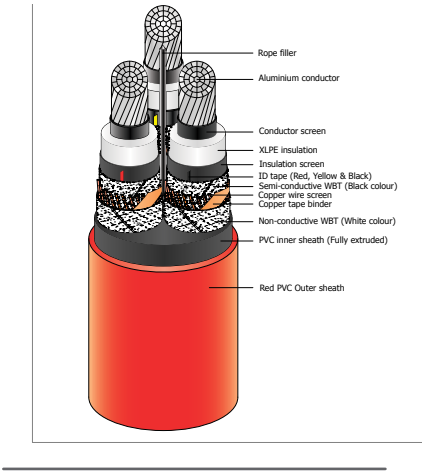
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	158	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	236	203	9.32	2.85
120	0.253	0.325	0.329	273	232	11.77	2.85
150	0.206	0.265	0.320	309	260	14.72	2.85
185	0.164	0.212	0.310	355	294	18.15	4.45
240	0.125	0.162	0.300	415	340	23.55	4.45
300	0.100	0.130	0.287	475	384	29.44	4.45
400	0.0778	0.102	0.278	552	438	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 sqmm supplied in wooden drum @ 1000 meters
70 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	60.5	4,005
70	65.0	4,625
95	68.5	5,185
120	73.0	5,865
150	76.0	6,690
185	79.0	7,375
240	84.0	8,315
300	90.5	9,665
400	97.0	11,545

PREVIEW

Electrical Data

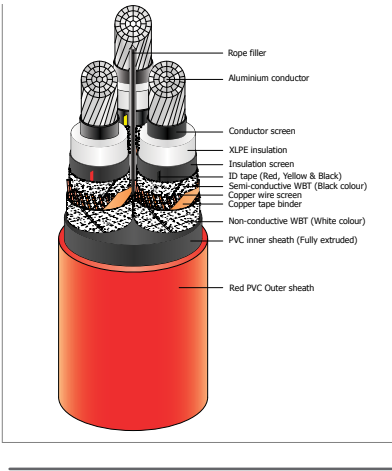
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	158	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	236	203	9.32	2.85
120	0.253	0.325	0.346	273	232	11.77	2.85
150	0.206	0.265	0.336	309	260	14.72	2.85
185	0.164	0.212	0.326	355	294	18.15	4.45
240	0.125	0.162	0.315	415	340	23.55	4.45
300	0.100	0.130	0.301	475	384	29.44	4.45
400	0.0778	0.102	0.291	552	438	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:
Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	68.0	5,570
70	72.5	6,290
95	76.0	6,945
120	79.5	7,650
150	84.5	9,335
185	87.5	10,130
240	92.5	11,270
300	99.5	12,885
400	106.0	15,045

PREVIEW

Electrical Data

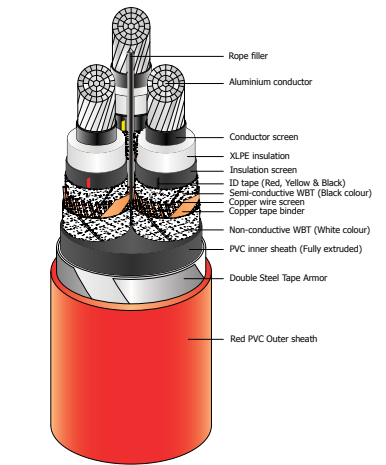
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	158	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	236	203	9.32	2.85
120	0.253	0.325	0.360	273	232	11.77	2.85
150	0.206	0.265	0.350	309	260	14.72	2.85
185	0.164	0.212	0.339	355	204	18.15	4.45
240	0.125	0.162	0.327	415	340	23.55	4.45
300	0.100	0.130	0.312	475	384	29.44	4.45
400	0.0778	0.102	0.301	552	438	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYBY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	53.0	3,795
70	57.5	4,370
95	61.5	4,950
120	64.5	5,525
150	68.0	6,405
185	72.0	7,115
240	78.5	8,795
300	86.0	10,390
400	93.5	12,495

Electrical Data

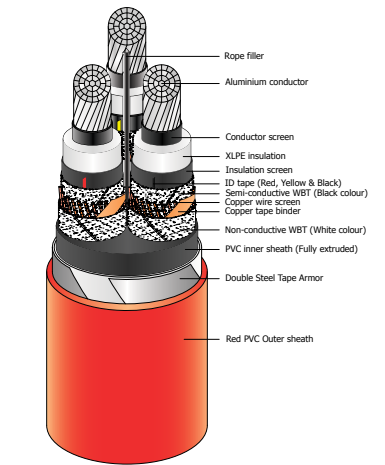
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	159	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	238	204	9.32	2.85
120	0.253	0.325	0.314	274	232	11.77	2.85
150	0.206	0.265	0.306	309	259	14.72	2.85
185	0.164	0.212	0.297	354	293	18.15	4.45
240	0.125	0.162	0.289	415	338	23.55	4.45
300	0.100	0.130	0.282	472	380	29.44	4.45
400	0.0778	0.102	0.274	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYBY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	57.5	4,295
70	62.0	4,895
95	66.0	5,545
120	69.5	6,150
150	72.5	7,025
185	76.0	7,765
240	82.5	9,495
300	89.0	10,945
400	95.5	12,885

Electrical Data

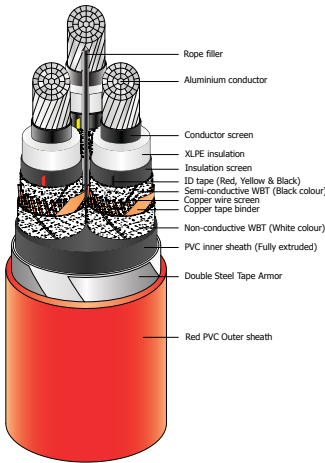
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	159	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	238	204	9.32	2.85
120	0.253	0.325	0.329	274	232	11.77	2.85
150	0.206	0.265	0.320	309	259	14.72	2.85
185	0.164	0.212	0.310	354	293	18.15	4.45
240	0.125	0.162	0.300	415	338	23.55	4.45
300	0.100	0.130	0.287	472	380	29.44	4.45
400	0.0778	0.102	0.278	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYBY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	63.0	4,965
70	67.5	5,615
95	71.5	6,270
120	75.0	6,910
150	78.0	7,850
185	82.0	8,630
240	88.0	10,420
300	94.5	11,975
400	101.0	13,980

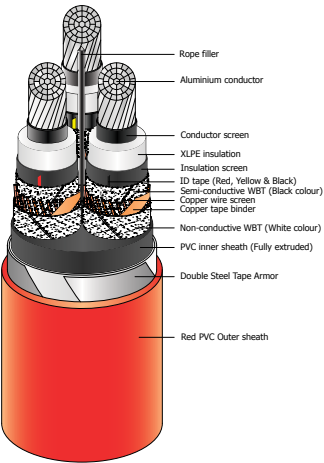
Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

NA2XSEYBY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 70 sqmm supplied in wooden drum @ 1000 meters
95 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	68.0	5,570
70	72.5	6,290
95	76.0	6,945
120	79.5	7,650
150	84.5	9,335
185	87.5	10,130
240	92.5	11,270
300	99.5	12,885
400	106.0	15,045

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	159	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	238	204	9.32	2.85
120	0.253	0.325	0.346	274	232	11.77	2.85
150	0.206	0.265	0.336	309	259	14.72	2.85
185	0.164	0.212	0.326	354	293	18.15	4.45
240	0.125	0.162	0.315	415	338	23.55	4.45
300	0.100	0.130	0.301	472	380	29.44	4.45
400	0.0778	0.102	0.291	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

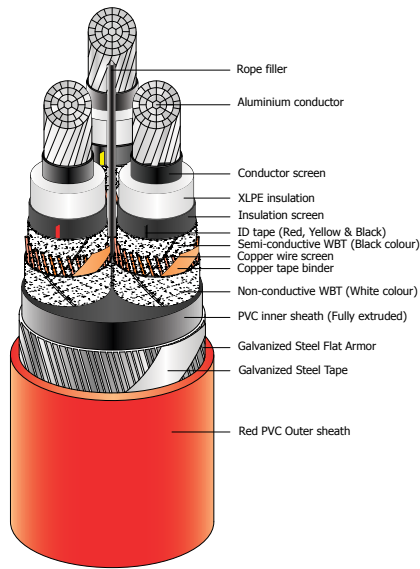
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	159	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	238	204	9.32	2.85
120	0.253	0.325	0.360	274	232	11.77	2.85
150	0.206	0.265	0.350	309	259	14.72	2.85
185	0.164	0.212	0.339	354	293	18.15	4.45
240	0.125	0.162	0.327	415	338	23.55	4.45
300	0.100	0.130	0.312	472	380	29.44	4.45
400	0.0778	0.102	0.301	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYFGbY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 sqmm supplied in wooden drum @ 1000 meters
70 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	53.0	4,120
70	57.5	4,725
95	61.5	5,360
120	65.0	5,960
150	68.0	6,830
185	72.0	7,565
240	77.0	8,630
300	84.5	10,210
400	92.5	12,350

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

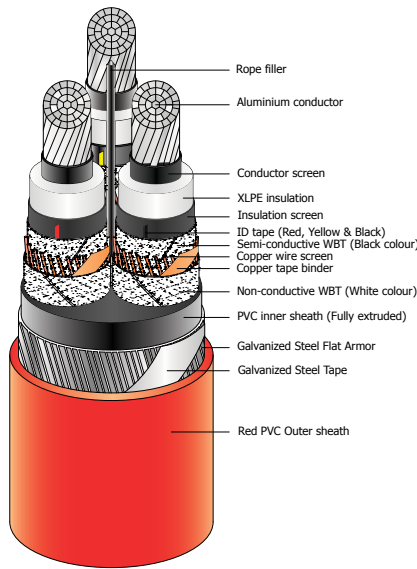
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	159	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	238	204	9.32	2.85
120	0.253	0.325	0.314	274	232	11.77	2.85
150	0.206	0.265	0.306	309	259	14.72	2.85
185	0.164	0.212	0.297	354	293	18.15	4.45
240	0.125	0.162	0.289	415	338	23.55	4.45
300	0.100	0.130	0.282	472	380	29.44	4.45
400	0.0778	0.102	0.274	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYFGbY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	58.0	4,680
70	62.5	5,345
95	66.0	5,990
120	69.5	6,620
150	73.0	7,520
185	76.5	8,285
240	81.5	9,325
300	88.0	10,800
400	94.5	12,730

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

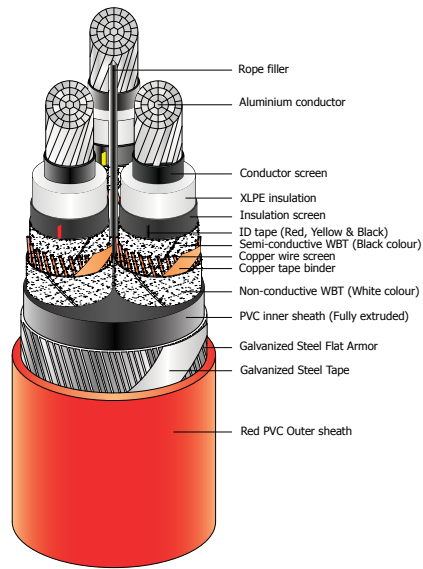
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	159	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	238	204	9.32	2.85
120	0.253	0.325	0.329	274	232	11.77	2.85
150	0.206	0.265	0.320	309	259	14.72	2.85
185	0.164	0.212	0.310	354	293	18.15	4.45
240	0.125	0.162	0.300	415	338	23.55	4.45
300	0.100	0.130	0.287	472	380	29.44	4.45
400	0.0778	0.102	0.278	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYFGbY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	63.5	5,390
70	67.5	6,075
95	71.5	6,755
120	75.0	7,454
150	78.5	8,390
185	82.0	9,190
240	87.0	10,280
300	93.5	11,825
400	100.0	13,820

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

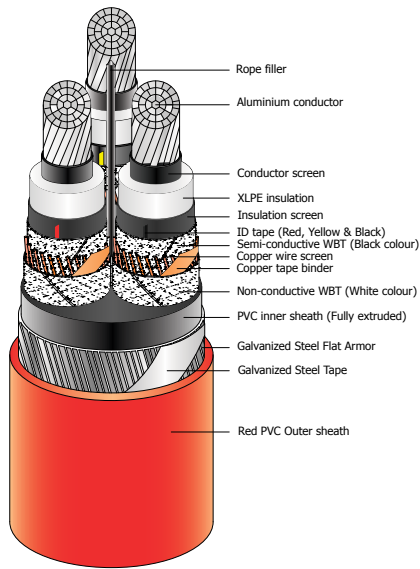
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	159	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	238	204	9.32	2.85
120	0.253	0.325	0.346	274	232	11.77	2.85
150	0.206	0.265	0.336	309	259	14.72	2.85
185	0.164	0.212	0.326	354	293	18.15	4.45
240	0.125	0.162	0.315	415	338	23.55	4.45
300	0.100	0.130	0.301	472	380	29.44	4.45
400	0.0778	0.102	0.291	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSEYFGbY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	68.5	6,095
70	73.0	6,820
95	76.5	7,505
120	80.0	8,240
150	83.5	9,235
185	87.0	10,035
240	92.0	11,165
300	98.5	12,730
400	105.0	14,875

Application:

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Electrical Data

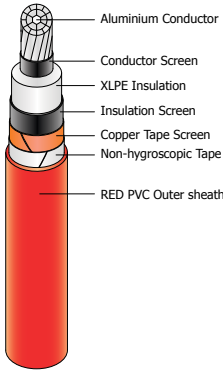
Conductor			Inductance	Current - Carrying Capacity		Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	159	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	238	204	9.32	2.85
120	0.253	0.325	0.360	274	232	11.77	2.85
150	0.206	0.265	0.350	309	259	14.72	2.85
185	0.164	0.212	0.339	354	293	18.15	4.45
240	0.125	0.162	0.327	415	338	23.55	4.45
300	0.100	0.130	0.312	472	380	29.44	4.45
400	0.0778	0.102	0.301	545	432	39.25	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSY 1 x (50 - 800) mm² 3.6/6 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	19.0	485
70	21.5	590
95	23.0	705
120	25.0	820
150	26.0	935
185	28.0	1,085
240	30.0	1,280
300	34.0	1,585
400	37.0	1,940
500	41.0	2,345
630	45.5	2,855
800	49.0	3,450

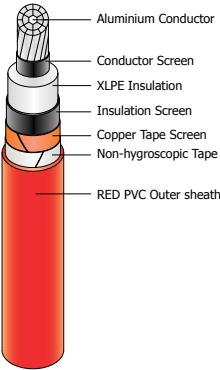
Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

NA2XSY 1 x (50 - 800) mm² 6/10 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	22.0	565
70	23.5	675
95	25.5	790
120	27.0	915
150	28.5	1,035
185	30.0	1,185
240	32.0	1,380
300	35.0	1,665
400	38.0	1,995
500	41.5	2,375
630	46.0	2,890
800	49.5	3,485

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.374	0.420	184	152	222	157	4.91	1.14
70	0.443	0.568	0.345	0.391	230	186	278	192	6.87	1.14
95	0.320	0.411	0.329	0.375	280	221	338	229	9.32	1.14
120	0.253	0.325	0.319	0.365	324	252	391	260	11.77	1.14
150	0.206	0.265	0.312	0.358	368	281	440	288	14.72	1.14
185	0.164	0.211	0.303	0.350	424	317	504	324	18.15	1.14
240	0.125	0.161	0.297	0.393	502	367	593	373	23.55	1.14
300	0.100	0.130	0.288	0.334	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.281	0.327	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.274	0.320	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.267	0.314	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.262	0.308	1019	795	994	764	78.50	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

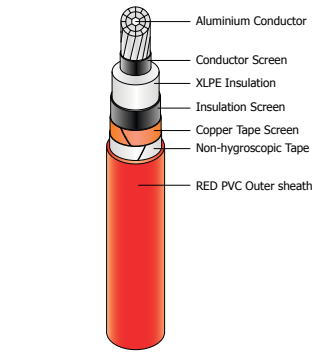
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.389	0.435	184	152	222	157	4.91	1.14
70	0.443	0.568	0.363	0.409	230	186	278	192	6.87	1.14
95	0.320	0.411	0.350	0.396	280	221	338	229	9.32	1.14
120	0.253	0.325	0.335	0.381	324	252	391	260	11.77	1.14
150	0.206	0.265	0.326	0.373	368	281	440	288	14.72	1.14
185	0.164	0.211	0.317	0.363	424	317	504	324	18.15	1.14
240	0.125	0.161	0.307	0.353	502	367	593	373	23.55	1.14
300	0.100	0.130	0.294	0.340	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.286	0.332	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.279	0.325	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.269	0.316	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.263	0.310	1019	795	994	764	78.50	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSY 1 x (50 - 800) mm² 8.7/15 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

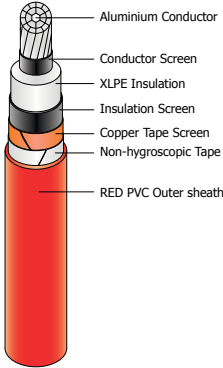
Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	24.0	665
70	26.0	785
95	28.0	905
120	29.5	1,035
150	31.0	1,165
185	32.5	1,320
240	35.0	1,520
300	37.5	1,820
400	40.5	2,165
500	44.0	2,555
630	48.5	3,085
800	52.0	3,695

NA2XSY 1 x (50 - 800) mm² 12/20 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	26.5	765
70	28.5	890
95	30.0	1,020
120	32.0	1,155
150	33.0	1,285
185	34.5	1,445
240	37.0	1,655
300	40.0	1,965
400	43.0	2,320
500	46.5	2,725
630	50.5	3,270
800	54.0	3,895

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.407	0.453	184	152	222	157	4.91	1.14
70	0.443	0.568	0.383	0.429	230	186	278	192	6.87	1.14
95	0.320	0.411	0.366	0.412	280	221	338	229	9.32	1.14
120	0.253	0.325	0.351	0.397	324	252	391	260	11.77	1.14
150	0.206	0.265	0.341	0.388	368	281	440	288	14.72	1.14
185	0.164	0.211	0.332	0.378	424	317	504	324	18.15	1.14
240	0.125	0.161	0.321	0.367	502	367	593	373	23.55	1.14
300	0.100	0.130	0.308	0.354	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.298	0.344	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.288	0.335	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.279	0.325	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.273	0.320	1019	795	994	764	78.50	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

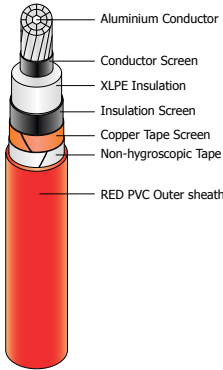
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.425	0.371	184	152	222	157	4.91	1.14
70	0.443	0.568	0.399	0.456	230	186	278	192	6.87	1.14
95	0.320	0.411	0.382	0.428	280	221	338	229	9.32	1.14
120	0.253	0.325	0.366	0.412	324	252	391	260	11.77	1.14
150	0.206	0.265	0.355	0.402	368	281	440	288	14.72	1.14
185	0.164	0.211	0.345	0.392	424	317	504	324	18.15	1.14
240	0.125	0.161	0.334	0.380	502	367	593	373	23.55	1.14
300	0.100	0.130	0.319	0.365	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.309	0.355	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.298	0.344	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.288	0.334	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.282	0.328	1019	795	994	764	78.50	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSY 1 x (50 - 800) mm² 18/30 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	32.0	1,050
70	34.0	1,195
95	36.0	1,335
120	37.5	1,485
150	39.0	1,630
185	40.5	1,805
240	42.5	2,035
300	45.5	2,370
400	48.5	2,750
500	52.0	3,185
630	56.5	3,775
800	59.5	4,420

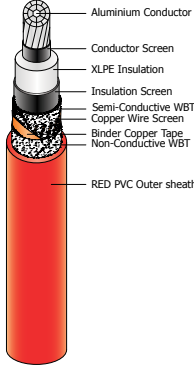
Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

NA2XSY 1 x (50 - 800) mm² 3.6/6 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	25.5	775
70	27.5	885
95	29.0	995
120	30.5	1,115
150	32.0	1,315
185	33.5	1,455
240	35.5	1,650
300	39.0	1,945
400	42.0	2,385
500	46.0	2,765
630	50.0	3,275
800	53.0	3,875

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.463	0.510	184	152	222	157	4.91	1.14
70	0.443	0.568	0.435	0.482	230	186	278	192	6.87	1.14
95	0.320	0.411	0.416	0.462	280	221	338	229	9.32	1.14
120	0.253	0.325	0.398	0.445	324	252	391	260	11.77	1.14
150	0.206	0.265	0.387	0.433	368	281	440	288	14.72	1.14
185	0.164	0.211	0.375	0.422	424	317	504	324	18.15	1.14
240	0.125	0.161	0.362	0.408	502	367	593	373	23.55	1.14
300	0.100	0.130	0.346	0.392	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.334	0.380	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.321	0.367	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.309	0.356	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.302	0.348	1019	795	994	764	78.50	1.14

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

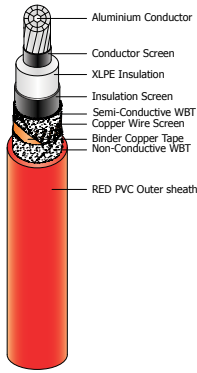
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C	 in air Max. (Amp) at 30 °C	 in ground Max. (Amp) at 20 °C		
50	0.641	0.822	0.418	0.464	184	152	222	157	4.91	2.85
70	0.443	0.568	0.392	0.438	230	186	278	192	6.87	2.85
95	0.320	0.411	0.374	0.420	280	221	338	229	9.32	2.85
120	0.253	0.325	0.357	0.404	324	252	391	260	11.77	2.85
150	0.206	0.265	0.348	0.394	368	281	440	288	14.72	4.45
185	0.164	0.211	0.337	0.383	424	317	504	324	18.15	4.45
240	0.125	0.161	0.326	0.373	502	367	593	373	23.55	4.45
300	0.100	0.130	0.314	0.360	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.305	0.351	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.295	0.342	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.285	0.331	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.278	0.325	1019	795	994	764	78.50	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XSY 1 x (50 - 800) mm² 6/10 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	27.5	855
70	29.5	965
95	31.0	1,080
120	32.5	1,205
150	34.0	1,405
185	35.0	1,555
240	37.0	1,745
300	40.0	2,020
400	43.0	2,435
500	46.0	2,795
630	50.0	3,305
800	54.0	3,905

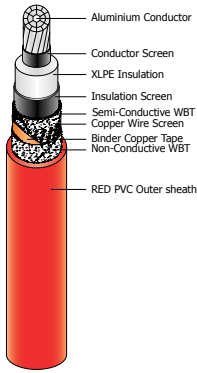
Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

NA2XSY 1 x (50 - 800) mm² 8.7/15 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	30.0	955
70	31.5	1,075
95	33.0	1,195
120	35.0	1,320
150	36.0	1,530
185	37.5	1,685
240	39.5	1,875
300	42.5	2,165
400	45.0	2,590
500	48.5	2,960
630	52.5	3,485
800	56.0	4,095

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.432	0.478	184	152	222	157	4.91	2.85
70	0.443	0.568	0.406	0.452	230	186	278	192	6.87	2.85
95	0.320	0.411	0.387	0.433	280	221	338	229	9.32	2.85
120	0.253	0.325	0.370	0.416	324	252	391	260	11.77	2.85
150	0.206	0.265	0.359	0.405	368	281	440	288	14.72	4.45
185	0.164	0.211	0.348	0.394	424	317	504	324	18.15	4.45
240	0.125	0.161	0.336	0.382	502	367	593	373	23.55	4.45
300	0.100	0.130	0.320	0.366	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.308	0.355	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.297	0.343	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.286	0.333	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.280	0.327	1019	795	994	764	78.50	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

Electrical Data

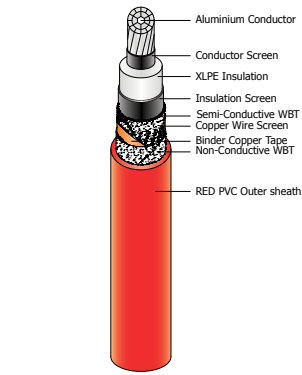
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation						
			 (mH/km)	 (mH/km)	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.448	0.495	184	152	222	157	4.91	2.85
70	0.443	0.568	0.421	0.468	230	186	278	192	6.87	2.85
95	0.320	0.411	0.402	0.448	280	221	338	229	9.32	2.85
120	0.253	0.325	0.384	0.430	324	252	391	260	11.77	2.85
150	0.206	0.265	0.372	0.418	368	281	440	288	14.72	4.45
185	0.164	0.211	0.361	0.407	424	317	504	324	18.15	4.45
240	0.125	0.161	0.348	0.394	502	367	593	373	23.55	4.45
300	0.100	0.130	0.331	0.378	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.319	0.366	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.307	0.353	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.297	0.343	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.288	0.335	1019	795	994	764	78.50	6.23

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XS1 1 x (50 - 800) mm² 12/20 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



Application:
For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Special Features on Request:

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
50	32.0	1,055
70	34.0	1,175
95	35.5	1,305
120	37.0	1,435
150	38.0	1,645
185	40.0	1,805
240	41.5	2,010
300	44.5	2,305
400	47.0	2,735
500	50.5	3,115
630	55.0	3,685
800	58.0	4,305

Electrical Data

Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	 Trefoil formation (mH/km)	 Flat formation (mH/km)						
					in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	in air Max. (Amp) at 30 °C	in ground Max. (Amp) at 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.462	0.509	184	152	222	157	4.91	2.85
70	0.443	0.568	0.434	0.480	230	186	278	192	6.87	2.85
95	0.320	0.411	0.414	0.460	280	221	338	229	9.32	2.85
120	0.253	0.325	0.396	0.442	324	252	391	260	11.77	2.85
150	0.206	0.265	0.384	0.430	368	281	440	288	14.72	4.45
185	0.164	0.211	0.372	0.418	424	317	504	324	18.15	4.45
240	0.125	0.161	0.358	0.404	502	367	593	373	23.55	4.45
300	0.100	0.130	0.341	0.387	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.328	0.375	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.315	0.362	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.304	0.351	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.297	0.343	1019	795	994	764	78.50	6.23

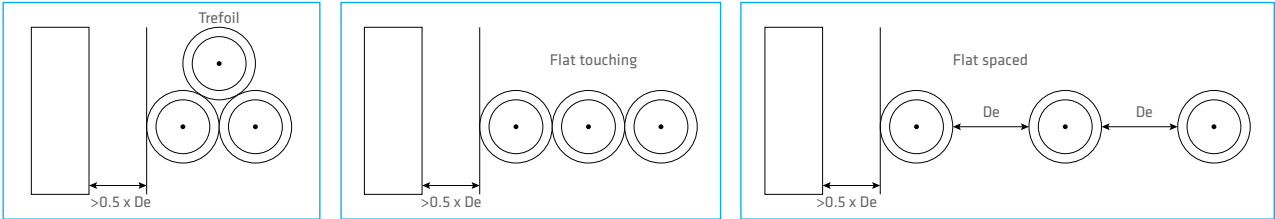
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



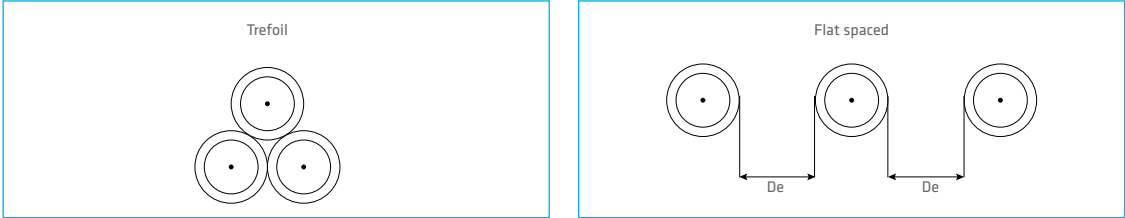
CONDITIONS FOR CURRENT CARRYING CAPACITY

The tabulated current rating are designed by the conditions as below :

Single-core cables in air



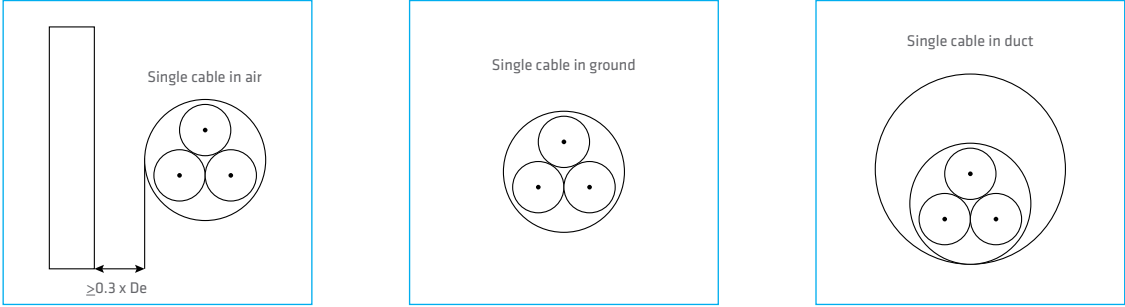
Single-core cables buried direct in ground



Single-core cables in earthenware ducts in ground



Three-core cables



Conductor temperature : 90 °C (XLPE Insulation)

Cable laying:

In air	Ambient temperature	: 30 °C
In Ground	Ground temperature	: 20 °C
	Depth of laying	: 0.8 m
	Thermal resistivity of soil	: 1.5 K.m/W
	Thermal resistivity of earthenware ducts	: 1.2 K.m/W

Screen bonded at both ends

Table 1:
Current ratings for single-core cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV copper conductor

Nominal area of conductor	Buried direct in the ground		In single-way ducts		In air		
	Trefoil	Flat spaced	Trefoil ducts	Flat touching ducts	Trefoil	Flat touching	Flat spaced
mm²	A	A	A	A	A	A	A
35	166	172	157	159	198	203	238
50	196	203	186	188	238	243	286
70	239	246	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	526	524	504	510	735	739	846
400	590	572	564	571	845	837	938

Table 2:
Current ratings for single-core cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV aluminium conductor

Nominal area of conductor	Buried direct in the ground		In single-way ducts		In air		
	Trefoil	Flat spaced	Trefoil ducts	Flat touching ducts	Trefoil	Flat touching	Flat spaced
mm²	A	A	A	A	A	A	A
50	152	157	144	146	184	189	222
70	186	192	176	178	230	236	278
95	221	229	210	213	280	287	338
120	252	260	240	242	324	332	391
150	281	288	267	271	368	376	440
185	317	324	303	307	424	432	504
240	367	373	351	356	502	511	593
300	414	419	397	402	577	586	677
400	470	466	451	457	673	676	769

Table 3:
Current ratings for three-cores cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV copper conductor, armoured and unarmoured

Nominal area of conductor	Unarmoured			Armoured		
	Buried direct in ground	In a buried duct	In air	Buried direct in ground	In a buried duct	In air
mm²	A	A	A	A	A	A
35	153	133	170	154	134	172
50	181	158	204	181	158	205
70	221	193	253	220	194	253
95	262	231	304	263	232	307
120	298	264	351	298	264	352
150	334	297	398	332	296	397
185	377	336	455	374	335	453
240	434	390	531	431	387	529
300	489	441	606	482	435	598

Table 4:
Current ratings for three-cores cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV aluminium conductor, armoured and unarmoured

Nominal area of conductor	Unarmoured			Armoured		
	Buried direct in ground	In a buried duct	In air	Buried direct in ground	In a buried duct	In air
mm²	A	A	A	A	A	A
50	140	122	158	140	123	159
70	171	150	196	171	150	196
95	203	179	236	204	180	238
120	232	205	273	232	206	274
150	260	231	309	259	231	309
185	294	262	355	293	262	354
240	340	305	415	338	304	415
300	384	346	475	380	343	472

DERATING FACTOR

A. Grouping in the ground

1. Correction factors for ambient ground temperatures other than 20 °C

Maximum conductor temperature	Ambient air temperature (°C)							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.96	0.93	0.89	0.85	0.80	0.76

2. Correction factors for depths of laying other than 0.8 m for direct buried cables

Depth of Laying (Mtrs)	Single-core Cables Nominal conductor size (mm²)		Three-core cables
	≤ 185 mm²	> 185 mm²	
0.5	1.04	1.06	1.04
0.6	1.02	1.04	1.03
1	0.98	0.97	0.98
1.25	0.96	0.95	0.96
1.5	0.95	0.93	0.95
1.75	0.94	0.91	0.94
2	0.93	0.90	0.93
2.5	0.91	0.88	0.91
3	0.90	0.86	0.90

3. Correction factors for depths of laying other than 0.8 m for cables in ducts

Depth of Laying (Mtrs)	Single-core Cables Nominal conductor size (mm²)		Three-core cables
	≤ 185 mm²	> 185 mm²	
0.5	1.04	1.05	1.03
0.6	1.02	1.03	1.02
1	0.98	0.97	0.99
1.25	0.96	0.95	0.97
1.5	0.95	0.93	0.96
1.75	0.94	0.92	0.95
2	0.93	0.91	0.94
2.5	0.91	0.89	0.93
3	0.90	0.88	0.92

4. Correction factors for soil thermal resistivities other than 1.5 K•m/W for direct buried single-core cables

Nominal area of conductor mm²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.30	1.25	1.21	1.16	0.89	0.81	0.75
50	1.32	1.26	1.21	1.16	0.89	0.81	0.74
70	1.33	1.27	1.22	1.17	0.89	0.81	0.74
95	1.34	1.28	1.22	1.18	0.89	0.80	0.74
120	1.34	1.28	1.22	1.18	0.88	0.80	0.74
150	1.35	1.28	1.23	1.18	0.88	0.80	0.74
185	1.35	1.29	1.23	1.18	0.88	0.80	0.74
240	1.36	1.29	1.23	1.18	0.88	0.80	0.73
300	1.36	1.30	1.24	1.19	0.88	0.80	0.73
400	1.37	1.30	1.24	1.19	0.88	0.79	0.73

5. Correction factors for soil thermal resistivities other than 1.5 K•m/W single-core cables in buried ducts

Nominal area of conductor mm²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.21	1.18	1.15	1.12	0.91	0.84	0.79
50	1.21	1.18	1.15	1.12	0.91	0.84	0.78
70	1.22	1.19	1.15	1.12	0.91	0.84	0.78
95	1.23	1.19	1.16	1.13	0.91	0.84	0.78
120	1.23	1.20	1.16	1.13	0.91	0.84	0.78
150	1.24	1.20	1.16	1.13	0.91	0.83	0.78
185	1.24	1.20	1.17	1.13	0.91	0.83	0.78
240	1.25	1.21	1.17	1.14	0.90	0.83	0.77
300	1.25	1.21	1.17	1.14	0.90	0.83	0.77
400	1.25	1.21	1.17	1.14	0.90	0.83	0.77

6. Correction factors for soil thermal resistivities other than 1.5 K•m/W for direct buried three-core cables

Nominal area of conductor mm²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.25	1.21	1.17	1.13	0.91	0.83	0.78
50	1.25	1.21	1.17	1.14	0.91	0.83	0.77
70	1.26	1.21	1.18	1.14	0.90	0.83	0.77
95	1.26	1.22	1.18	1.14	0.90	0.83	0.77
120	1.26	1.22	1.18	1.14	0.90	0.83	0.77
150	1.27	1.22	1.18	1.15	0.90	0.83	0.77
185	1.27	1.23	1.18	1.15	0.90	0.83	0.77
240	1.28	1.23	1.19	1.15	0.90	0.83	0.77
300	1.28	1.23	1.19	1.15	0.90	0.82	0.77
400	1.28	1.23	1.19	1.15	0.90	0.82	0.76

7. Correction factors for soil thermal resistivities other than 1.5 K•m/W three-core cables in buried ducts

Nominal area of conductor mm²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.14	1.12	1.10	1.08	0.94	0.88	0.84
50	1.14	1.12	1.10	1.08	0.94	0.88	0.84
70	1.15	1.13	1.11	1.09	0.94	0.88	0.83
95	1.15	1.13	1.11	1.09	0.94	0.88	0.83
120	1.15	1.13	1.11	1.09	0.93	0.88	0.83
150	1.16	1.13	1.11	1.09	0.93	0.88	0.83
185	1.16	1.14	1.11	1.09	0.93	0.87	0.83
240	1.16	1.14	1.12	1.10	0.93	0.87	0.82
300	1.17	1.14	1.12	1.10	0.93	0.87	0.82
400	1.17	1.14	1.12	1.10	0.92	0.86	0.81

8. Correction factors for groups of three-core cables in horizontal formation laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.80	0.86	0.90	0.92	0.94
3	0.69	0.77	0.82	0.86	0.89
4	0.62	0.72	0.79	0.83	0.87
5	0.57	0.68	0.75	0.81	0.85
6	0.54	0.65	0.74	0.80	0.84
7	0.51	0.63	0.72	0.78	0.83
8	0.49	0.61	0.71	0.78	-
9	0.47	0.60	0.70	0.77	-
10	0.46	0.59	0.69	-	-
11	0.45	0.57	0.69	-	-
12	0.43	0.56	0.68	-	-

9. Correction factors for groups of three-phase circuits of single-core cables laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.73	0.83	0.88	0.90	0.92
3	0.60	0.73	0.79	0.83	0.86
4	0.54	0.68	0.75	0.80	0.84
5	0.49	0.63	0.72	0.78	0.82
6	0.46	0.61	0.70	0.76	0.81
7	0.43	0.58	0.68	0.75	0.80
8	0.41	0.57	0.67	0.74	-
9	0.39	0.55	0.66	0.73	-
10	0.37	0.54	0.65	-	-
11	0.36	0.53	0.64	-	-
12	0.35	0.52	0.64	-	-

10. Correction factors for groups of three-core cables in single way ducts in horizontal formation

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.85	0.88	0.92	0.94	0.95
3	0.75	0.80	0.85	0.88	0.91
4	0.69	0.75	0.82	0.86	0.89
5	0.65	0.72	0.79	0.64	0.87
6	0.62	0.69	0.77	0.83	0.87
7	0.59	0.67	0.76	0.82	0.86
8	0.57	0.65	0.75	0.81	-
9	0.55	0.64	0.74	0.80	-
10	0.54	0.63	0.73	-	-
11	0.52	0.62	0.73	-	-
12	0.51	0.61	0.72	-	-

11. Correction factors for groups of three-phase circuits of single-core cables in single-way ducts

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.78	0.85	0.89	0.91	0.93
3	0.66	0.75	0.81	0.85	0.88
4	0.59	0.70	0.77	0.82	0.86
5	0.55	0.66	0.74	0.80	0.84
6	0.51	0.64	0.72	0.78	0.83
7	0.48	0.61	0.71	0.77	0.82
8	0.46	0.60	0.70	0.76	-
9	0.44	0.58	0.69	0.76	-
10	0.43	0.57	0.68	-	-
11	0.42	0.56	0.67	-	-
12	0.40	0.55	0.67	-	-

B. Grouping in air

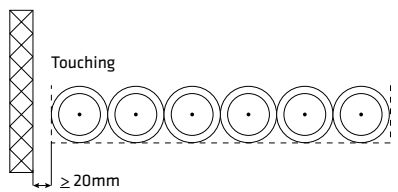
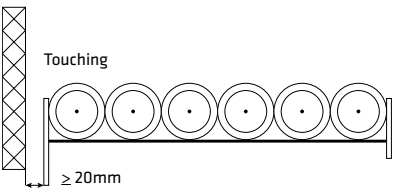
1. Correction factors for ambient air temperatures other than 30 °C

Maximum conductor temperature	Ambient air temperature (°C)							
	20	25	35	40	45	50	55	60
90	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

2. Single core cables in three phase system

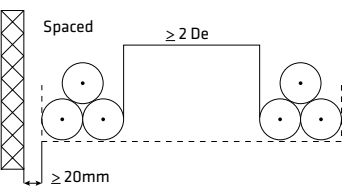
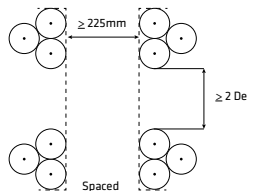
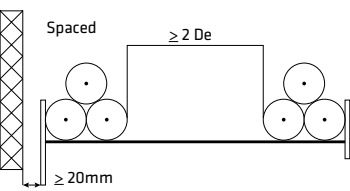
2.1. Flat Formation

Minimum distance from the wall is 20 mm
Clearance between systems = external diameter of cable (D_e)

Method of installation		Number of trays	Number of three - phase circuits		
			1	2	3
Perforated trays		1	0.98	0.91	0.87
		2	0.96	0.87	0.81
		3	0.95	0.85	0.78
Ladder supports cleats		1	1.00	0.97	0.96
		2	0.98	0.93	0.89
		3	0.97	0.90	0.86

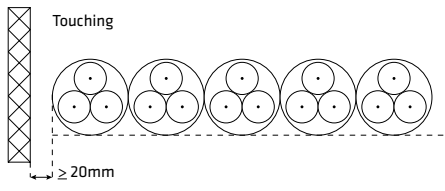
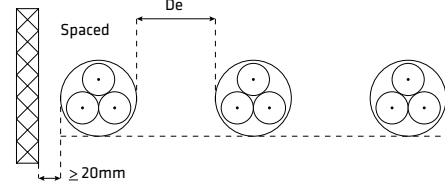
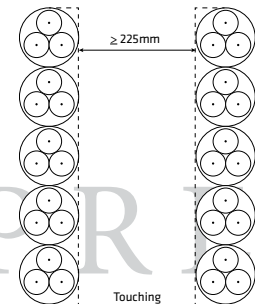
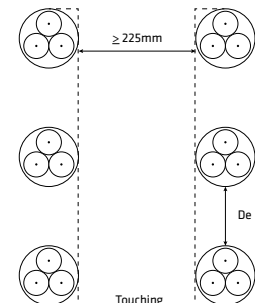
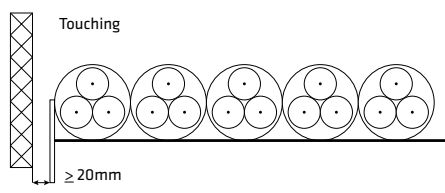
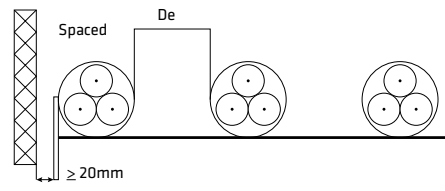
2.2. Trefoil Formation

Minimum distance from the wall is 20 mm
Clearance between systems = 2 x external diameter of cable ($2D_e$)

Method of installation		Number of trays	Number of three - phase circuits		
			1	2	3
Perforated trays		1	1.00	0.98	0.96
		2	0.97	0.93	0.89
		3	0.97	0.93	0.89
Vertical perforated trays		1	1.00	0.91	0.89
		2	1.00	0.90	0.86
Ladder supports cleats		1	1.00	1.00	1.00
		2	0.97	0.95	0.93
		3	0.96	0.94	0.90

3. Multi core cables in three phase system

Minimum distance from the wall is 20 mm
Clearance between systems = external diameter of cable (D_e)

Method of installation		Number of trays	Number of three - phase circuits					
			1	2	3	4	6	9
Cable on perforated trays		1	1.00	0.88	0.82	0.79	0.76	0.73
		2	1.00	0.87	0.80	0.77	0.73	0.68
		3	1.00	0.86	0.79	0.76	0.71	0.66
		1	1.00	1.00	0.98	0.95	0.91	-
		2	1.00	0.99	0.96	0.92	0.97	-
		3	1.00	0.98	0.95	0.91	0.85	-
Cable on vertical perforated trays		1	1.00	0.88	0.82	0.78	0.73	0.72
		2	1.00	0.88	0.81	0.76	0.71	0.7
		1	1.00	0.91	0.89	0.88	0.87	-
		2	1.00	0.91	0.88	0.87	0.85	-
Cable on ladder supports cleats		1	1.00	0.87	0.82	0.80	0.79	0.78
		2	1.00	0.86	0.8	0.78	0.76	0.73
		3	1.00	0.85	0.79	0.76	0.73	0.70
		1	1.00	1.00	1.00	1.00	1.00	-
		2	1.00	0.99	0.98	0.97	0.96	-
		3	1.00	0.98	0.97	0.96	0.93	-



PT VOKSEL ELECTRIC Tbk.

MEDIUM VOLTAGE EXPORT CABLE

MV EXPORT CABLE

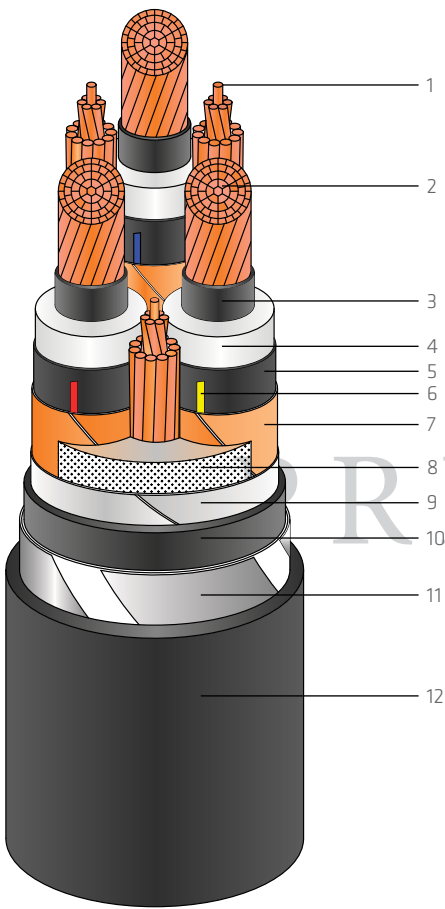


3 x 240 mm² 33 kV

CU / XLPE / CTS / HDPE / DSTA / HDPE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, HDPE Inner sheath, Steel Tape, HDPE Sheathed)
Standard Specification : IEC 60502 - 2 & Customer specification

Customer ADWEA
Country Abu Dhabi - U.E.A



- 1. Intersitial conductor**
Compressed bare copper stranded
- 2. Conductor**
Compacted copper conductor
- 3. Conductor screen**
Extruded semi-conductive conductor shield
- 4. Insulation**
TR-XLPE insulation
- 5. Insulation screen**
Extruded semi-conductive insulation shield
- 6. Identification tape**
Red, Yellow & Blue
- 7. Metallic screen**
Un-coated copper tape
- 8. Filler**
Non Hydroscopic Polypropylene Yarn
- 9. Binder tape**
Polyester binder tape
- 10. Inner sheath/Armor bedding**
Black HDPE
- 11. Armoring**
Double Galvanized Steel Tape
- 12. Jacketing**
Black HDPE Jacket

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

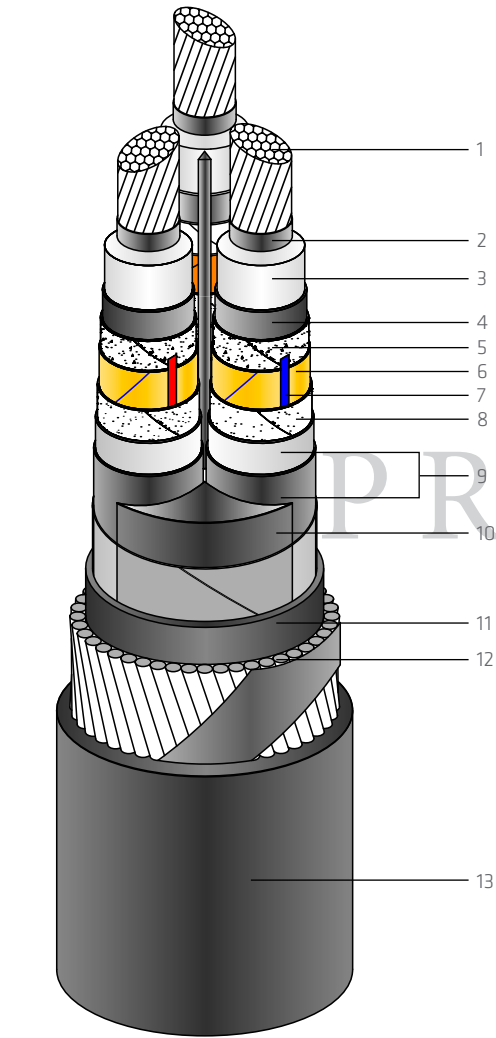
3 x 240 mm² 11 kV

CU / XLPE / CTS / AL-Laminated / PVC / SWA / PE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Al-Laminated / PVC Inner sheath, Steel Wire Armor, PE Sheathed)

Standard Specification : IEC 60502 - 2 & Customer specification

Customer DEWA
Country Dubai - U.E.A



- 1. **Conductor**
Compacted Aluminium conductor
- 2. **Conductor screen**
Extruded semi-conductive conductor shield
- 3. **Insulation**
XLPE insulation
- 4. **Insulation screen**
Extruded semi-conductive insulation shield
- 5. **Swelling tape**
Semi-conductive water blocking
- 6. **Metallic screen**
Un-coated copper tape
- 7. **Identification tape**
Red, Yellow & Blue
- 8. **Water sealing tape**
Non-conductive water blocking
- 9. **Radial water sealing**
Extruded Polyethylene (PE) applied over metallic aluminium laminated
- 10. **Filler**
PVC Shape filler
- 11. **Inner sheath/armor bedding**
Extruded Black PVC
- 12. **Armoring**
Single layer of Galvanized Steel Wire
- 13. **Jacketing**
Extruded of Black PE + Graphite polish

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

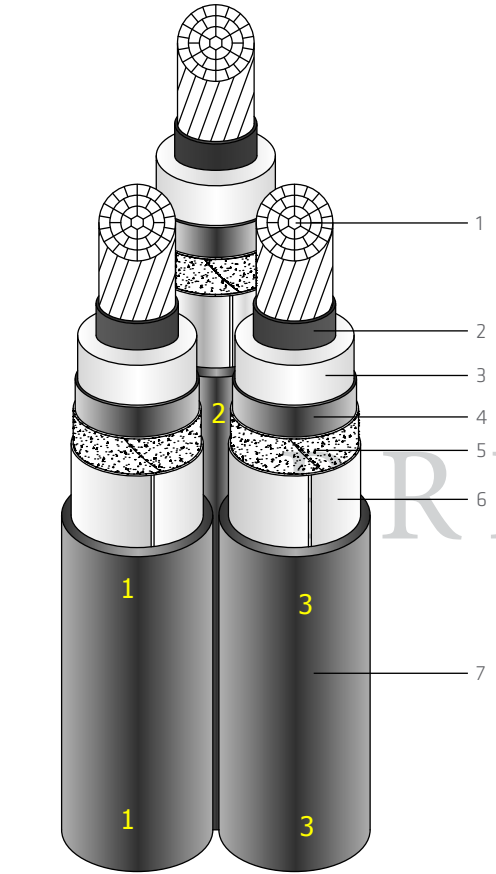


3 x 1 x 240 mm² 12/20 (24) kV

Triplex Cable - AL / XLPE / Al-Laminated / PVC

(Copper Conductor, XLPE Insulated, Al-Laminated, PVC Sheathed)
Standard Specification : IEC 60502 - 2 & Customer specification

Customer ETDE
Country Ethiopia



- 1. **Conductor**
Compacted Aluminium conductor
- 2. **Conductor screen**
Extruded semi-conductive conductor shield
- 3. **Insulation**
XLPE insulation
- 4. **Insulation screen**
Extruded semi-conductive insulation shield
- 5. **Swelling tape**
Semi-conductive water blocking
- 6. **Al Tape**
Aluminium Laminated
- 7. **Jacketing**
Black PVC Jacket

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



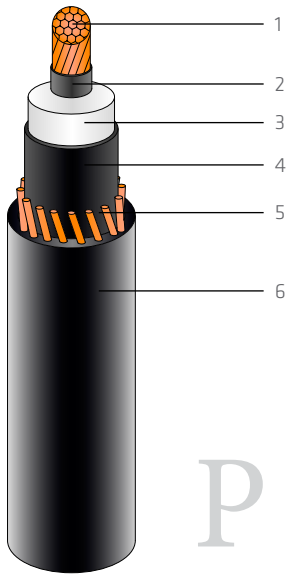
1 x 3/0 AWG 35 kV

CU / XLPE / CWS / PE

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PE Sheathed)
Standard Specification : ANSI/ICEA S-94-649, T-27-581, NEMA WC 53 & Cust spec



Customer MERALCO
Country Phillipines



- 1. **Conductor**
Soft or annealed uncoated compressed Class B.
- 2. **Conductor screen/shield**
Super smooth extra clean black semi-conducting
- 3. **Insulation**
Tree -Retardant Cross-lingked Polyethylene (TR-XLPE)
- 4. **Insulation screen/Non-metallic insulation shield**
Free-strippable extra clean black semi-conducting
- 5. **Concentric neutral conductor**
Round uncoated annealed copper wire
- 6. **Jacket**
Black Linear Low Density Polyethylene (LDPE)

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

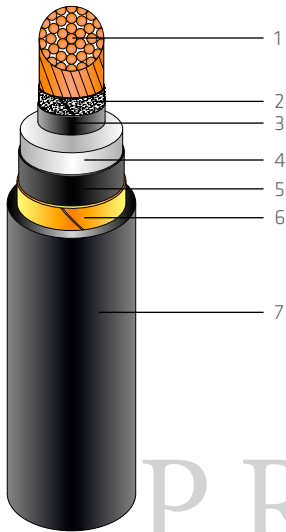
1 x 500 MCM AWG 35 kV

CU / XLPE / CTS / PE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PE Sheathed)
Standard Specification : ANSI/ICEA S-97-682, ANSI/ICEA T-27-581 & NEMA WC 53



Customer MERALCO
Country Phillipines



- 1. **Conductor**
Soft or annealed uncoated compressed Class B.
- 2. **Separator tape**
Semi-conductive tape conductor shield
- 3. **Conductor screen / shield**
Super smooth extra clean black semi-conducting
- 4. **Insulation**
Tree -Retardant Cross-linked Polyethylene (TR-XLPE)
- 5. **Insulation screen / Non-metallic insulation shield**
Free-strippable extra clean black semi-conducting
- 6. **Metallic screen**
Un-coated copper tape shield
- 7. **Jacket**
Black Linear Low Density Polyethylene (LDPE)

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

