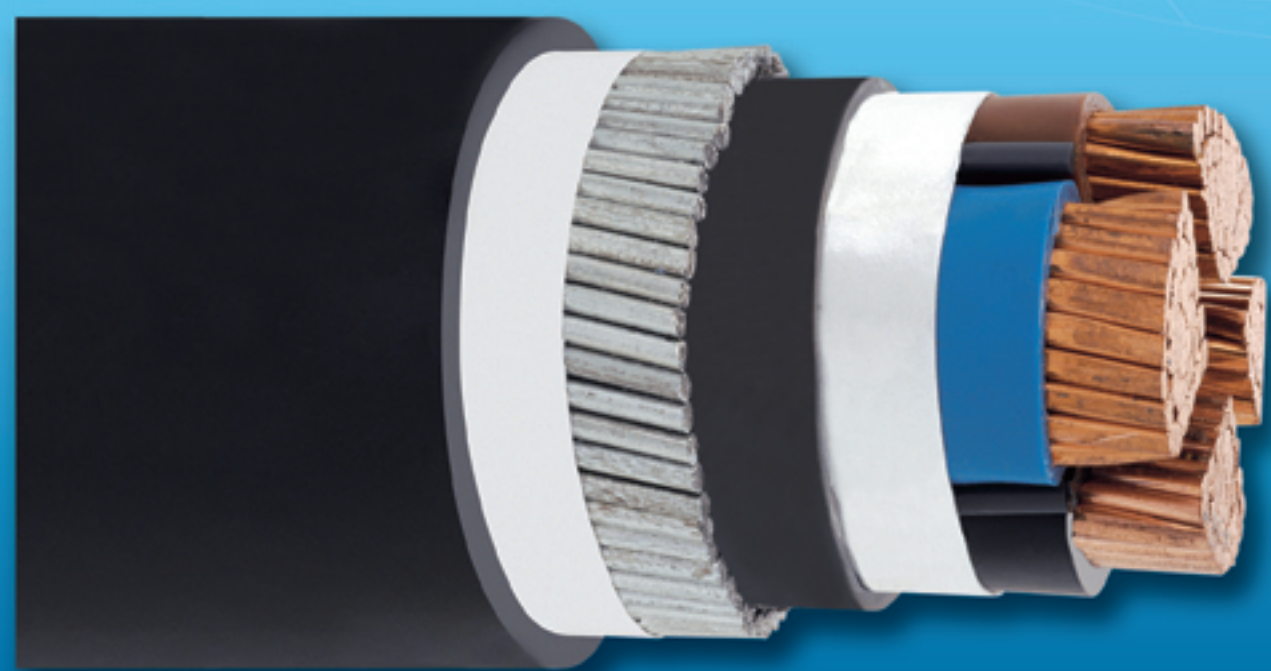
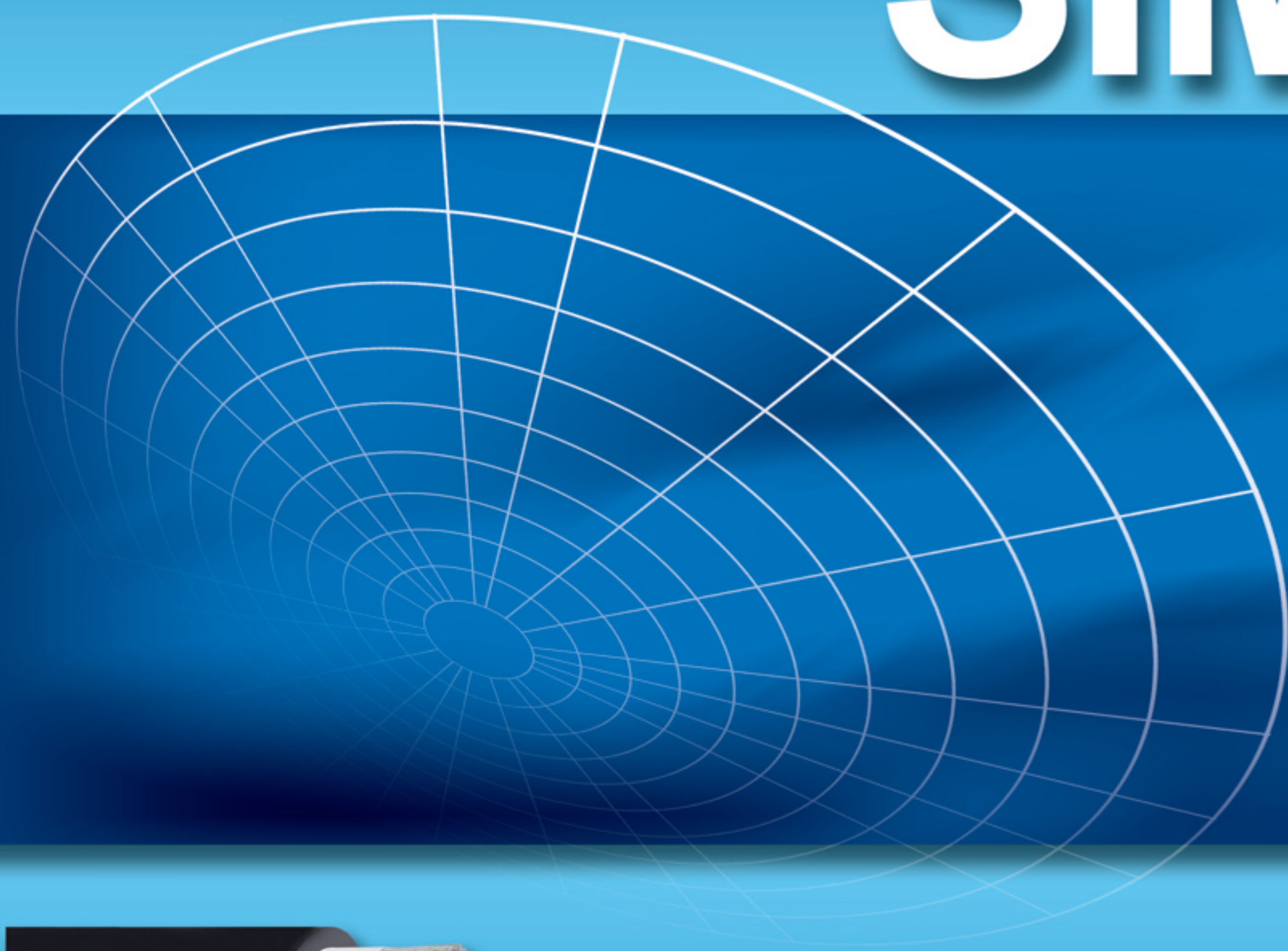


SIMCO

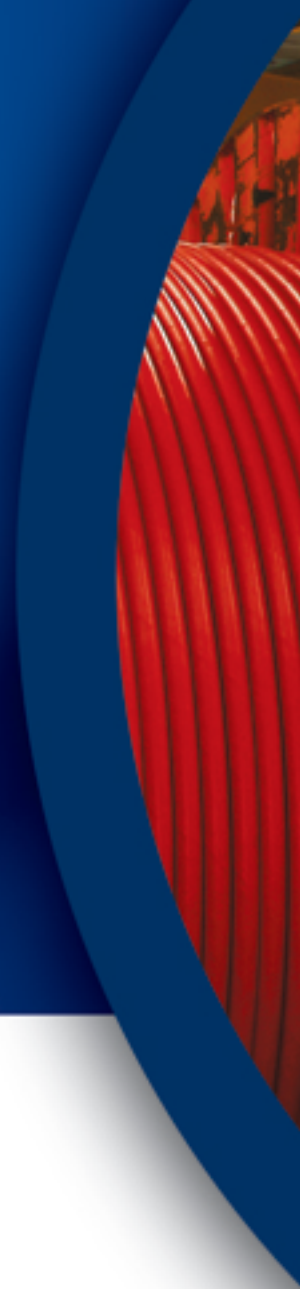


LOW VOLTAGE
&
TELECOMMUNICATION CABLES



SIMCO

LOW VOLTAGE & TELECOMMUNICATION CABLES





SIMCO







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COMPANY HISTORY

Brief history of SIMCO:

In 1968, SIMCO acquired the license for producing wires & cables. Our production started with Low Voltage underground power Cables up to $4 \times 50 \text{ mm}^2$ in our Old Karaj Road Facility near Tehran. In 1975, a joint venture was made with LM Ericsson of Sweden and a new plant was built on $150,000 \text{ m}^2$ of land in the city of Rasht (Guilan province) in northern Iran. By purchasing and installing new machinery, the production capacity increased from 150 tons to 15,000 tons per year. During that time, the company was manufacturing all types of telecom cables without Jelly and Low Voltage cables (armored & unarmored) up to $4 \times 300 \text{ mm}^2$ in accordance with the Iranian standard (ISIRI), British standard (BS), German standard (VDE), International Electrotechnical Commission (IEC), etc...

In 1993, the joint venture was dissolved and in 1995 SIMCO purchased new equipment for producing medium and High Voltage underground power cables. In 1997, we produced a 20kV Medium Voltage cable, in 1998 a 33kV and at the end of the same year a 63 kV cable was produced for the first time in Iran and in 2003 SIMCO produced FOR THE FIRST TIME a 132 kV cables.

The cable was sent for the Type Test to KEMA High Voltage Laboratory in Netherlands. SIMCO successfully obtained a certificate from KEMA Nederland B.V. for TYPE TEST CERTIFICATE OF COMPLETE TYPE TEST for 20, 63 and 132 kV in accordance with IEC 60502 & IEC 60840.

Company Profile

SIMCO (p. j. s .c.)

Company type: Private Joint Stock Company

Incorporation year: 1968

Managing director: Parviz Hourfar

Head office: 19 Bahar Shiraz St.
Tehran 1565839331 Iran

Tel: +98 21 77 52 96 90

Fax: +98 21 77 50 45 94

E – Mail: info@simcocable.com

Factory : Rasht 4198917849 Iran

Tel: +98 131 666 90 71

Fax: +98 131 666 18 33

E – Mail: factory@simcocable.com

Facilities:

Head office – Tehran 1,000 m² total land
800 m² indoor

Factory – Rasht: 150,000 m² total land
30,000 m² indoor

Warehouse - Tehran-Karaj Rd: 4,500 m² total land
3,000 m² indoor

Staff organization:

Total employees in Tehran: 30

Total employees in Rasht: 217

XLPE material 1

The basic material for all types of XLPE cables is Low Density(LD)polyethylene. Polyethylene(PE)has been widely used for a long time as cable insulating and sheath material owing to its excellent electrical and mechanical properties, its lightness, good low-temperature flexibility and good resistance to moisture, chemicals, ozone etc, as well as its comparatively low price.

LD polyethylene, however, has properties which limit its use as cable insulation. Being a thermoplastic its softening temperature 105-115°C. Another disadvantage is its tendency to stress cracking when in contact with certain surface active agents.

By means of a process reminiscent of the vulcanization of rubber the PE molecules can be cross-linked, thus greatly improving the thermal and mechanical properties of the material, while its electrical properties are retained largely unchanged. This product, cross-linked polyethylene is therefore no longer a thermoplastic. It softens at the crystalline melting point of PE(105-115°C)and assumes an elastic, rubber consistency, a property which it retains during a further rise of temperature after which it becomes carbonized without melting at about 300°C. The tendency to stress cracking has entirely disappeared and the material has also acquired a very good resistance to ageing in hot air. The original method of chemical cross-linking of the molecular chains of PE was developed in the fifties and has since been considerably improved in order to utilize the good insulation properties of the material in cable production for increasingly high voltages.

The cross-linking process may be explained as follows. PE is made up of long molecular chains. By cross-linking of these chains a network of strong bonds is created, the PE is converted into cross-linked polyethylene, XLPE. The cross-Linking can be achieved by different methods. For cable insulation the cross-linking is usually effected chemically using organic peroxides.

A relatively new method of cross-linking PE using Silan have been used on medium voltage cables by some manufacturers. Because the Cross-linking process should be in humid & high temperature media(sauna) the system has not yet been found as reliable as the conventional way with CCV-lines and Peroxide.

Thermal properties

Owing to the cross-linking, XLPE is a very heat resistant material. It cannot melt like polyethylene but decomposes and carbonizes if exposed for long periods to temperatures above 300°C.

The permissible conductor temperature at a short-circuit current for 1 second has therefore been but at 250°C and, at continuous load, conductors with XLPE insulation may have a temperature of 90°C. These temperatures are specified both in international standards.

XLPE, like PE retains its low temperature flexibility down to -40°C, which implies great advantages for the laying of the cables.

XLPE material 2

Electrical properties

The good electrical properties of PE remain largely unchanged during the cross-linking process. XLPE therefore, like PE, has a very small and only insignificantly temperature dependent loss factor ($\tan \delta$) and dielectric constant. (ϵ)

As a result the dielectric losses of XLPE cables are small in comparison with those of PVC and paper-insulated cables. XLPE cables are specially adapted for long cable routes and high voltages in which case the dielectric losses are of great significance.

Mechanical properties

Polyethylene has good mechanical properties. It is interesting that at normal temperature PE can resist local stresses better than PVC. In this respect XLPE has the same advantages as PE and owing to their good mechanical properties. XLPE cables are likely in the future to have a greater number of applications than those for traditional types of cable today, as for example high voltage buried and aerial cables.

Chemical properties

Owing to the cross-linking of the molecules XLPE has better resistance than PE to most chemicals such as ordinary acids, bases and oil.

Environmental pollution and cables

From the environmental aspect both PVC and oil-impregnated paper insulated cables have distinct disadvantages. PVC cables, if it burns, gives off corrosive gases, and a leaking oil-filled cable may cause severe damage to water supplies.

The disadvantage of XLPE is its low resistance to fire. It is however shown that the insulation properties of XPLE in an early stage of a fire are better than all thermoplastic materials including PVC.

XLPE-insulated cables for voltages from 6kV up to and including 170 kV are designed to meet specifications in different countries and by different customers. They are also designed to have good handling properties and to have long life. The following text presents the most common design elements in our standard manufacturing program and some of the most frequent cable types. Upon request, other design elements, cross sections, screen areas and insulation thicknesses may be offered XLPE-insulated cables up to 36kV are single-core or three-core cables. Cables >36 kV are single core cables.

Design elements:

Conductor

Stranded, compacted round aluminum or copper conductor, on request water sealed by a swelling powder which in contact with water effectively blocks the longitudinal water penetration in the conductor.

XLPE material 3

Conductor screen

A conductive compound extruded directly over the conductor to give a smooth surface to the insulation. The conductor screen is firmly bonded to the XLPE-insulation in the triple extrusion process.

Insulation

The XLPE – insulation material is a peroxide cross-linkable material which is extruded in a triple extrusion process at the same time as conductor screen and insulation screen. The cross-linking is a dry curing process made in CCV-lines.

Insulation screen

For cables up to 36 kV the insulation screen can be either strippable or firmly bonded to the insulation. On cables over 36 kV the insulation screen is bonded to the insulation. We do recommend the use of a bonded insulation screen on submarine-cables and cables where heavy mechanical stresses are to be expected as the bonded insulation screen have better mechanical properties. The insulation screen(conducting material)is extruded in the triple extrusion process to give a smooth surface to the insulation. Since it first use in 1974, the normal strippable insulation screen as used on 12-24 kV cables has proven to have excellent properties.

Metallic screen

The metallic screen consists of copper wires helically laid round the cable body, with or without counter helix, or of longitudinally wave formed copper wires bedded in a corrosion protecting conducting material. The screen can also consist copper tapes or prefabricated tapes of copper wires embedded in a conducting material.

Water sealing

Radial water sealing can be made with a metal-PE laminate. Longitudinal water sealing can be made with a swelling tape applied under the screen threads.

Armoring

Steel wire armoring are made when both a good mechanical protection as well as protection against pulling forces are needed.(Submarine-cables).Steel tape armoring are made when a good mechanical protection is needed.

Outer sheath

PE or PVC is used as sheathing materials. PVC where flame retardant properties are demanded and PE where better mechanical and cold handling properties are needed. The PE outer sheath can be delivered in different grades-LDPE, MDPE or HDPE. The outer sheath can also be delivered in different colors as e.g. black, red, blue, yellow or green.

Reference List

Abadan petrochemical Complex ABB (Asea Brown Boveri) Ansaldo Co Ardabil Cement Ardabil Distribution Electric Co. Ardakan peletaizing plant Azarbaijan Distribution Electric Co. Azar ghand naghadeh Azzan Bandar Imam Petrochemical Complex Chador Malou Complex Danieli East of Tehran Distribution Electric Co. Ericsson Fajr Sepahan Galvanized Steel Complex Fajr Petrochemical Co. Farab Company: Karun 1 power plant Karkheh power plant Fars Regional Electric Co. Firouza (Demag) Foulad Khorassan (steel Complex) Foulad Khouzestan (steel Complex) Foulad Mobarekeh (steel Complex) Foulad Kavir Ghaem Reza Co. Guilan Distribution Electric Co. Guilan Regional Electric Co. Guilan Telecommunication Co. Golestan Distribution Electric Co. Hirbodan Hormozgan Distribution Electric Co. Iran Khodro Iran Transfo IRIB (Islamic Republic of Iran Broadcasting) IRITEC Isfahan Distribution Electric Co. Isfahan Regional Electric Co. Jam petrochemical Co. Kalayeh Naft Tehran Karoun Cement Kerman Regional Electric Co. Kerman Telecommunication Co Khark Petrochemical Company Khorassan Distribution Electric Co. Khorassan Regional Electric Co. Khorassan Telecommunication Co	Khorassan Petrochemical Complex Kish water & electricity Mapna Company: Fars Combined Cycle Power Plant Kerman Combined Cycle Power Plant Khoj Combined Cycle Power Plant Neishaboor Combined Cycle Power Plant Rajaii Combined Cycle Power Plant Shariati Combined Cycle Power Plant Masjede Soleyman Power plant Marun Petrochemical Co. Mazandaran Distribution Electric Co. Mazandaran Regional Electric Co. Metec Company Mobin Petrochemical Co. Naft Falat gharreh IRAN Nargan Namavarar National Iranian Gaz Co. National Iranian Oil Co. North West of Tehran Distribution Electric Co. OIEC Pars Capacitor Co. Parsian Pars Khodro Pooyesh Petrochemical Co. Rahkar Sanaye Novin Razi Petrochemical Complex Safanicu Sapta SPEC Saveh Cement Co. Sazeh Tabriz Urban Railways Tadbir Niroo Co. Tavanir Co. Tehran Niroo Co. Tehran Regional Electric Co. Tondgouyan Petrochemical Co. Water & Electricity of Khouzestan West of Tehran Distribution Electric Co. Yazd Distribution Electric Co. Yazd Regional Electric Co. Zanjan Distribution Electric Co. Zob Ahan Iran (Steel Complex) Etc ...
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Max Short Circuit Current for PVC-Insulated Cables (0.6/1) with Copper Conductor in kilo Amps(kA)

70° C is to be considered as Conductor temperature at the start of short circuit

Copper Conductor Cross Section Area	Short Circuit Time (sec)										
	0.1	0.2	0.3	0.4	0.5	1s	1.5	2	3	4	5
mm ²	kA										
10	3.64	2.57	2.10	1.82	1.63	1.15	0.94	0.81	0.66	0.58	0.51
16	5.82	4.11	3.36	2.91	2.60	1.84	1.50	1.30	1.06	0.92	0.82
25	9.09	6.43	5.25	4.55	4.07	2.88	2.35	2.03	1.66	1.44	1.29
35	12.73	9.00	7.35	6.36	5.69	4.03	3.29	2.58	2.32	2.01	1.80
50	18.18	12.86	10.50	9.09	8.13	5.75	4.69	4.07	3.32	2.88	2.57
70	25.46	25.46	14.70	12.73	11.38	8.05	6.57	5.69	4.65	4.03	3.60
95	34.55	24.43	19.95	17.27	15.45	10.9	8.92	7.73	6.31	5.46	4.89
120	43.64	30.86	25.20	21.82	19.52	13.8	11.27	9.76	7.97	6.90	6.17
150	54.55	38.57	31.49	27.27	24.40	17.2	14.08	12.20	9.96	8.63	7.71
185	67.28	47.57	38.84	33.64	30.09	21.3	17.37	15.04	12.28	10.64	9.51
240	87.28	61.72	50.39	43.64	39.03	27.60	22.54	19.52	15.93	13.80	12.34
300	109.10	77.14	62.99	54.55	48.79	34.50	28.17	24.40	19.92	17.25	15.43
400	130.29	92.13	75.22	65.14	58.27	41.20	33.64	29.13	23.79	20.60	18.43
500	162.86	115.16	94.04	81.43	72.83	51.50	42.05	36.42	29.73	25.75	23.03
630	205.20	145.10	118.47	102.60	91.77	64.89	52.98	48.88	37.46	32.45	29.02
800	260.57	184.25	150.44	130.29	116.53	82.40	67.28	58.27	47.57	41.20	36.85
1000	325.71	230.32	188.05	162.86	145.66	103.00	84.10	72.83	59.47	51.50	46.0
1200	390.83	276.38	255.66	195.43	174.80	123.60	100.92	87.40	71.36	61.80	55.28

Permissible bending radii

When laying power cables, the radii should not be smaller than the values given in table below.

Cable	Minimum bending radius r plastic cables	
	U ₀ =0.6 kV	U ₀ >0.6 kV
Multi core	Dx12	Dx15
Single-core	Dx15	Dx15

D = Outer diameter of the cable in mm.

For single bends, e.g. in front of sealing ends, these radii may in the extreme cases be reduced by half, if proper handling-heating to approx. 30°C, bending over a former is insured.

Permissible pulling forces

When laying power cables by machine, particular attention must be paid to the permissible tensile forces. The formula for obtaining these values are given in table below.

Pulling method	Construction of cables	Tensile force
pulling head on the conductors	All types of cables	$P = A \cdot 50 \text{ N/mm}^2$ (cable with Cu conductor) $P = A \cdot 30 \text{ N/mm}^2$ (cable with Al conductor)
With pulling grip	All wire - armored cables	$P = F \cdot D^2$ ($F = 9 \text{ N/mm}^2$)
	Cables with metal sheath, without tension - proof Armour	$P = F \cdot D^2$ (Single- sheathed cable $F = 3 \text{ N/mm}^2$)
	Plastic cables without metal sheath Plastic cables without Armour	$P = A \cdot 50 \text{ N/mm}^2$ (Cu conductor) $P = A \cdot 30 \text{ N/mm}^2$ (Al conductor)

If there single - core cables are laid simultaneously with a common pullig grip the same max. pulling forces as they are applicable for single - core cables, are valid.

For 3 laid - up single - core cables the caculation of the permissible pulling forces is based on 3 cables, Where as it is based on 2 cables if the 3 single - core cables are not laid - up.

A= Total conductor cross - section in mm²(without screen and concentric protective conductor)

D= Outer diameter of the cable in mm.

Charging Current (A/Km) For Single Core XLPE Cables

Cross Section (mm ²)	Rated Voltage kV			
	6	10	20	30
50	0.45	0.5	0.7	0.9
70	0.50	0.6	0.8	1.0
95	0.60	0.7	0.9	1.1
120	0.65	0.7	1.0	1.1
150	0.70	0.8	1.1	1.2
185	0.70	0.8	1.2	1.3
240	0.75	0.9	1.3	1.4
300	0.80	1.0	1.4	1.6
400	0.90	1.2	1.6	1.7
500	1.1	1.3	1.7	1.9
630	1.2	1.4	1.9	2.1
800	1.3	1.6	2.1	2.3
1000	1.5	1.8	2.3	2.5
1200	1.6	2.0	2.5	2.7

Earth Fault Current (A/km)

Copper Conductor Cross-section (mm ²)	Rated Voltage U ₀ /U (U _m) KV				
	3.6/6(7.2)	6/10(12)	8.7/15(18)	12/20(24)	18/30(36)
50	0.70	1.5	1.7	2.1	2.7
70	0.75	1.7	1.9	2.4	3.0
95	0.80	2.1	2.2	2.7	3.2
120	0.90	2.1	2.2	2.9	3.4
150	0.95	2.3	2.4	3.2	3.7
185	1.00	2.5	2.7	3.5	4.0
240	1.10	2.8	3.0	3.8	4.3
300	1.20	3.1	3.3	4.1	4.7
400	1.25	3.6	3.8	4.7	5.2
500	1.25	3.9	4.1	5.2	5.6
630	1.30	4.3	4.5	5.8	6.2
800	1.40	4.8	5.0	6.4	6.8
1000	1.50	5.3	5.5	7.0	7.4
1200	1.60	6.0	6.2	7.6	8.1

Conversion of conductor resistance values for different conductor temperatures:

◆ **Copper** : $R_t = R_{20} \frac{234.5 + t}{254.5}$

◆ **Aluminum** : $R_t = R_{20} \frac{228 + t}{248}$

◆ t = Conductor temperature ($^{\circ}\text{C}$)

◆ R_{20} = Conductor resistance at 20°C (Ω/Km)

◆ R_t = Conductor resistance at $t^{\circ}\text{C}$ (Ω/Km)



Maximum Short Circuit Current for XLPE-insulated Cables (0.6/1-76/132kV) with Copper Conductors in kilo Amps (kA)

90°C is to be considered as Conductor temperature at the start of short circuit

Copper Conductor Cross Section Area	Short Circuit Time (sec)										
	0.1	0.2	0.3	0.4	0.5	1s	1.5	2	3	4	5
mm ²	kA										
10	4.52	3.20	2.61	2.26	2.02	1.43	1.17	1.01	0.83	0.72	0.64
16	7.24	5.01	4.18	3.62	3.24	2.29	1.87	1.62	1.32	1.14	1.02
25	11.31	7.99	6.53	5.65	5.06	3.58	2.92	2.53	2.06	1.79	1.60
35	15.83	11.19	9.14	7.91	7.08	5.01	4.09	3.54	2.89	2.50	2.24
50	22.61	15.99	13.05	11.31	10.11	7.15	5.84	5.06	4.13	3.58	3.20
70	31.65	21.65	18.28	15.83	14.16	10	8.17	7.08	5.78	5.01	4.48
95	42.96	30.38	24.80	21.48	19.21	13.6	11.09	9.61	7.84	6.79	6.08
120	54.26	38.37	31.33	27.13	24.27	17.2	14.01	12.13	9.91	8.58	7.76
150	67.83	47.96	39.16	33.92	30.33	21.5	17.51	15.17	12.38	10.73	9.59
185	83.66	59.16	48.30	41.83	37.41	26.5	21.60	18.71	15.27	13.23	11.83
240	108.53	76.74	62.66	54.26	48.54	34.3	28.02	24.27	19.81	17.16	15.35
300	135.66	95.93	78.32	67.83	60.67	42.9	35.03	30.33	24.77	21.45	19.19
400	180.88	127.90	104.43	90.44	80.89	57.2	46.70	40.45	33.02	28.60	25.58
500	226.10	159.88	130.54	113.05	101.12	71.5	58.38	50.56	41.28	37.75	31.98
630	284.89	201.45	164.48	142.44	127.41	90.1	73.56	63.70	52.01	45.05	40.29
800	361.76	255.81	208.86	180.88	161.79	114	93.41	80.89	66.05	57.20	51.16
1000	452.21	319.76	261.08	226.10	202.23	143	116.76	101.12	82.56	71.50	63.95
1200	543.9	384.6	314	271.95	243.2	172	140.4	121.6	99.3	86	76.9

Maximum Short Circuit Current for XLPE-Insulated Cables (0.6/1-76/132kV) with Aluminum Conductors in kilo Amps(kA)

90°C is to be considered as Conductor temperature at the start of short circuit

Aluminum Conductor Cross Section Area mm ²	Short Circuit Time (sec)										
	0.1	0.2	0.3	0.4	0.5	1s	1.5	2	3	4	5
	kA										
10	2.97	2.10	1.72	1.49	1.33	0.94	0.77	0.66	0.54	0.47	0.42
16	4.76	3.36	2.75	2.38	2.13	1.50	1.23	1.06	0.87	0.75	0.67
25	7.43	5.25	4.29	3.72	3.32	2.35	1.92	1.66	1.36	1.18	1.05
35	10.40	7.36	6.01	5.20	4.65	3.31	2.69	2.33	1.90	1.65	1.47
50	14.86	10.51	8.58	7.43	6.65	4.72	3.84	3.32	2.71	2.35	2.10
70	20.81	20.81	12.01	10.40	9.31	6.61	5.37	4.65	3.80	3.29	2.94
95	28.24	19.97	16.30	14.12	12.63	8.98	7.29	6.31	5.16	4.47	3.99
120	35.67	25.22	20.59	17.84	15.95	11.3	9.21	7.98	6.51	5.64	5.04
150	44.59	31.53	25.74	22.29	19.94	14.2	11.51	9.97	8.14	7.05	6.31
185	54.99	38.98	31.75	27.50	24.59	17.5	14.20	12.30	10.04	8.70	7.78
240	71.34	50.45	41.19	35.67	31.90	22.7	18.42	15.95	13.03	11.28	10.09
300	89.18	63.06	51.49	44.59	39.88	28.3	23.03	19.94	16.28	14.10	12.61
400	118.90	84.08	68.65	59.45	53.17	37.8	30.70	26.59	21.71	18.80	16.82
500	148.63	105.10	85.81	74.31	66.47	47.2	38.38	33.23	27.14	23.50	21.02
630	187.27	132.42	108.12	93.64	83.75	59.5	48.35	41.87	34.19	29.61	26.48
800	237.80	168.15	137.30	118.90	106.35	75.6	61.40	53.17	43.42	37.60	33.63
1000	297.25	210.19	171.62	148.63	132.94	94.5	76.75	66.47	54.27	47.00	42.04
1200	356.70	252.23	205.94	178.35	159.52	113	92.10	79.76	65.13	56.40	50.45

Short Circuit Current ratings for copper screen of XLPE - insulated cables

Copper Screen Area	Short Circuit Time (sec)										
	0.1	0.2	0.3	0.4	0.5	1s	1.5	2	3	4	5
mm ²	kA										
16	10.46	7.4	6.04	5.23	4.68	3.3	2.69	2.33	1.9	1.65	1.47
25	16.12	11.4	9.31	8.06	7.21	5.1	4.16	3.6	2.94	2.55	2.28
35	22.45	15.87	12.96	11.22	10.04	7.1	5.79	5.02	4.09	3.55	3.17
50	33.20	23.48	19.17	16.60	14.85	10.50	8.57	7.42	6.06	5.25	4.70
70	46.49	32.87	26.84	23.24	20.79	14.70	12.00	10.39	8.49	7.35	6.57
95	63.09	44.61	36.42	31.54	28.21	19.95	16.29	14.11	11.52	9.98	8.92
120	79.69	56.35	46.01	39.84	35.64	25.20	20.58	17.82	14.55	12.60	11.27
150	99.61	70.44	57.51	49.81	44.55	31.50	25.72	22.27	18.19	15.75	14.09

*The screen size can be increased for MV cables at your request

Single Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 1.5 mm² up to 50 mm² 0.6/1 kV



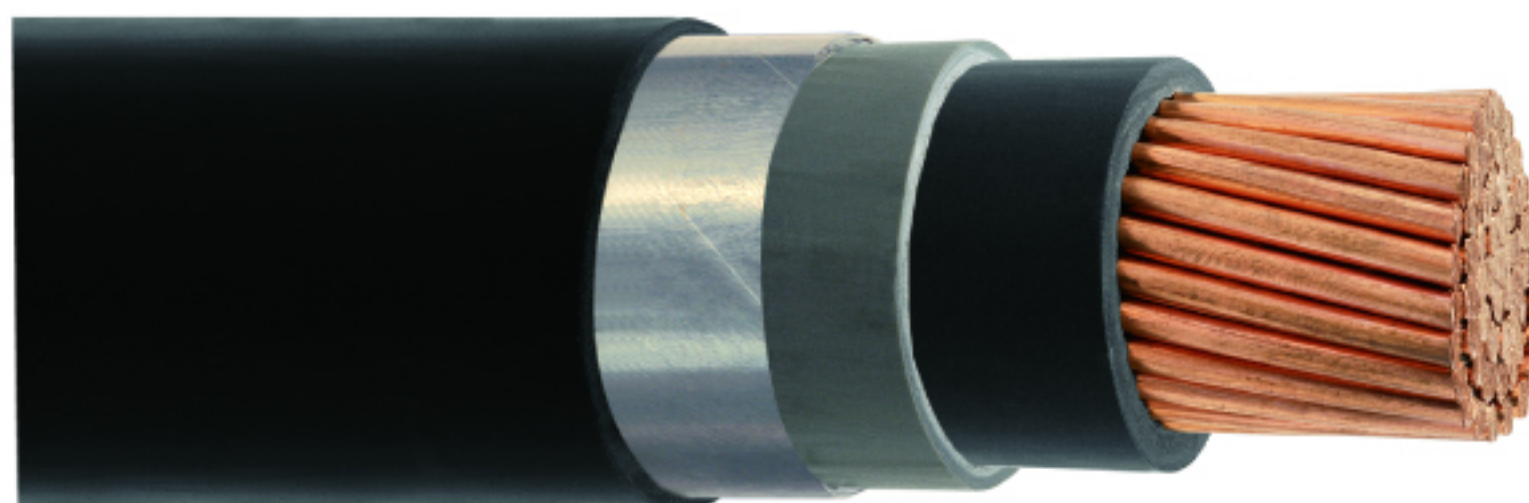
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (Kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°C	At 70°C	In Ground 	In Air 	
1x1.5 RE	1	1.38	0.8	1.4	5.8	60	12.1	14.5	37	26	1000
1x1.5 RM	7	0.52	0.8	1.4	6	66	12.1	14.5	37	26	1000
1x2.5 RE	1	1.78	0.8	1.4	6.2	80	7.41	8.87	45	33	1000
1x2.5 RM	7	0.67	0.8	1.4	6.4	81	7.41	8.87	45	33	1000
1x4 RE	1	2.25	1	1.4	7	100	4.61	5.52	50	36	1000
1x4 RM	7	0.85	1	1.4	7.3	110	4.61	5.52	50	36	1000
1x6 RE	1	2.76	1	1.4	7.6	130	3.08	3.69	62	46	1000
1x6 RM	7	1.04	1	1.4	7.9	140	3.08	3.69	62	46	1000
1x10 RE	1	3.57	1	1.4	8.4	170	1.83	2.19	82	62	1000
1x10 RM	7	1.35	1	1.4	8.8	180	1.83	2.19	82	62	1000
1x16 RM	7	1.70	1	1.4	9.8	250	1.15	1.38	105	83	1000
1x25 RM	7	2.14	1.2	1.4	11.5	360	0.727	0.870	136	111	1000
1x35 RM	7	2.52	1.2	1.4	12.7	455	0.524	0.627	163	136	1000
1x35 RM	19	1.53	1.2	1.4	12.9	465	0.524	0.627	163	136	1000
1x50 RM	19	1.78	1.4	1.4	14.4	610	0.387	0.463	193	166	1000

Single Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 70 mm² up to 800 mm² 0.6/1 kV



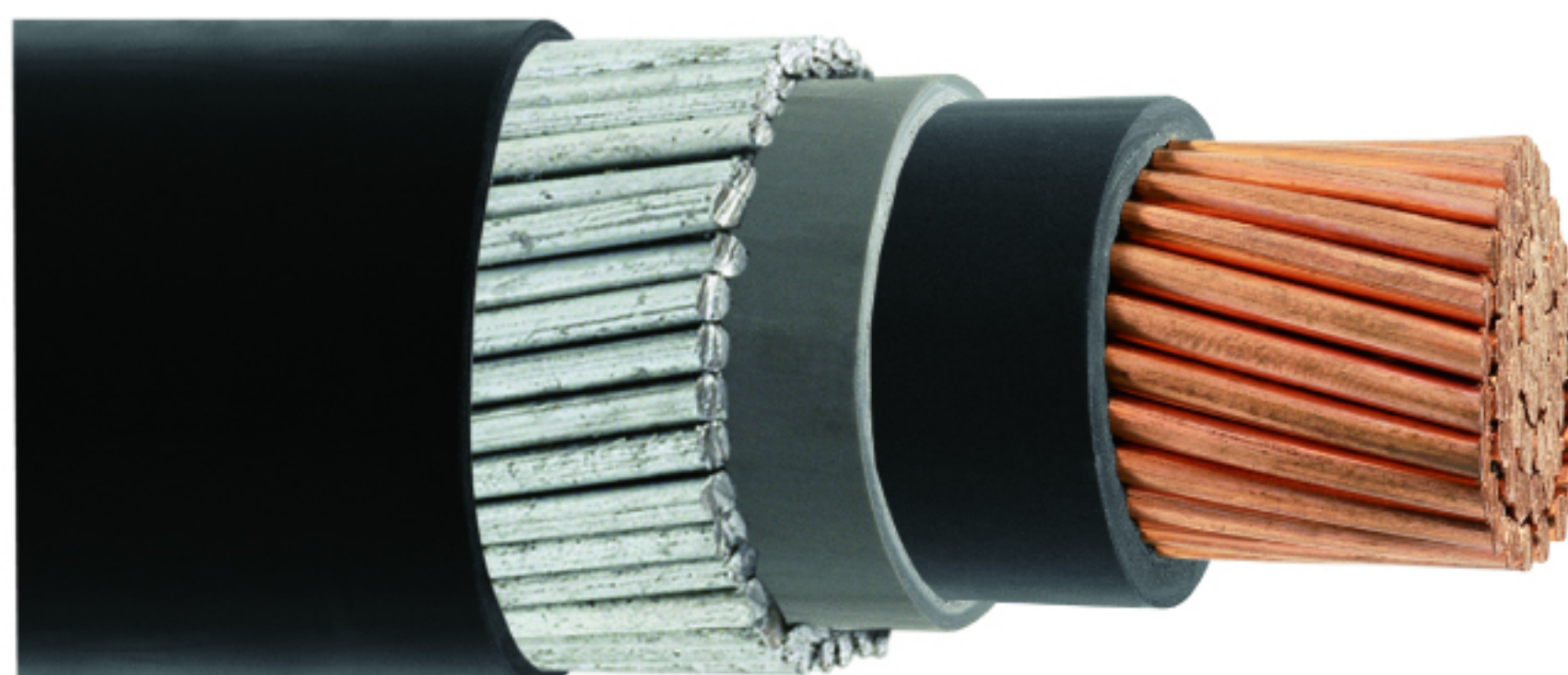
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
1x70 RM	19	2.14	1.4	1.5	16.4	820	0.268	0.321	237	210	1000
1x95 RM	19	2.52	1.6	1.5	18.7	1120	0.193	0.231	284	259	500
1x120 RM	37	2.03	1.6	1.6	20.4	1360	0.153	0.183	323	301	500
1x150 RM	37	2.25	1.8	1.7	22.7	1700	0.124	0.148	363	345	500
1x185 RM	37	2.52	2	1.8	25.1	2100	0.0991	0.119	411	398	500
1x240 RM	61	2.25	2.2	1.9	28.2	2750	0.0754	0.0902	477	475	500
1x300 RM	61	2.52	2.4	2	31.3	3380	0.0601	0.0719	537	545	500
1x400 RM	61	2.85	2.6	2.1	34.6	4270	0.0470	0.0562	612	636	500
1x500 RM	61	3.20	2.8	2.2	38.8	5310	0.0366	0.0438	689	730	500
1x630 RM	91	2.97	2.8	2.3	43	6600	0.0283	0.0338	762	952	500
1x800 RM	91	3.35	2.8	2.5	47.5	8250	0.0221	0.0264	840	1050	500

Single Core Aluminium Tape Armored Cable (NYBY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding Extruded (mm)	Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Conductor Resistance (Ω/km)		Current Rating In Ground (A)
	Number of Strands	Diameter of Strands (mm)						At 20°c	At 70°c	
1x50 RM	19	1.78	1.4	1.2	0.5	1.8	19.7	0.387	0.463	193
1x70 RM	19	2.14	1.4	1.2	0.5	1.8	21.5	0.268	0.321	237
1x95 RM	19	2.52	1.6	1.2	0.5	1.8	23.8	0.193	0.231	284
1x120 RM	37	2.03	1.6	1.2	0.5	1.8	25.5	0.153	0.183	323
1x150 RM	37	2.25	1.8	1.2	0.5	1.9	27.6	0.124	0.148	363
1x185 RM	37	2.52	2	1.2	0.5	2	30.1	0.0991	0.119	411
1x240 RM	61	2.25	2.2	1.2	0.5	2.1	33.3	0.0754	0.0902	477
1x300 RM	61	2.52	2.4	1.2	0.5	2.2	36.3	0.0601	0.0719	537
1x400 RM	61	2.85	2.6	1.3	0.5	2.3	40.1	0.047	0.0562	612
1x500 RM	61	3.2	2.8	1.3	0.5	2.4	43.8	0.0366	0.0438	689

Single Core, Aluminum Wire Armored Cables (NYRY) PVC insulated, PVC sheathed According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness Extruded (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Conductor Resistance At 20°c (Ω/km)	Current Rating In Ground (A)
	Number of Strands	Diameter of Strands (mm)							
1x50RM	19	1.78	1.4	1.2	1.6	1.8	20.5	0.387	193
1x70 RM	19	2.14	1.4	1.2	1.6	1.8	22.5	0.268	237
1x95 RM	19	2.52	1.6	1.2	1.6	1.8	25.0	0.193	284
1x120 RM	37	2.03	1.6	1.2	1.6	1.8	26.5	0.153	323
1x150 RM	37	2.25	1.8	1.2	1.6	1.9	28.8	0.124	363
1x185 RM	37	2.52	2	1.2	1.6	2	31.3	0.0991	411
1x240 RM	61	2.25	2.2	1.2	1.6	2.1	34.5	0.0754	477
1x300 RM	61	2.52	2.4	1.2	2	2.2	37.5	0.0601	537
1x400 RM	61	2.85	2.6	1.3	2	2.4	42.3	0.0470	612
1x500 RM	61	3.2	2.8	1.3	2	2.5	46.0	0.0366	689

Single Core XLPE insulated & PVC Sheathed (N2XY) 1.5 mm² up to 25 mm² According to IEC 60502 0.6 / 1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)
	Number of Strands	Diameter of Strands (mm)	
1x1.5 RE	1	1.38	0.7
1x1.5 RM	7	0.52	0.7
1x2.5 RE	1	1.78	0.7
1x2.5 RM	7	0.67	0.7
1x4 RE	1	2.25	0.7
1x4 RM	7	0.85	0.7
1x6 RE	1	2.76	0.7
1x6 RM	7	1.04	0.7
1x10 RE	1	3.57	0.7
1x10 RM	7	1.35	0.7
1x16 RM	7	1.7	0.7
1x25 RM	7	2.14	0.9



Nominal Cross Section (mm ²)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Weight Approx (kg/km)	Conductor Resistance		Current Rating in Air (A)	Standard Length (m)
				at 20° c (Ω/km)	at 90° c (Ω/km)		
1x1.5 RE	1.4	5.6	58	12.1	15.4	31	1000
1x1.5 RM	1.4	5.8	60	12.1	15.4	31	1000
1x2.5 RE	1.4	6	72	7.41	9.45	41	1000
1x2.5 RM	1.4	6.2	74	7.41	9.45	41	1000
1x4 RE	1.4	6.4	90	4.61	5.88	55	1000
1x4 RM	1.4	6.7	94	4.61	5.88	55	1000
1x6 RE	1.4	6.9	114	3.08	3.93	70	1000
1x6 RM	1.4	7.3	118	3.08	3.93	70	1000
1x10 RE	1.4	7.8	158	1.83	2.33	95	1000
1x10 RM	1.4	8.2	163	1.83	2.33	95	1000
1x16 RM	1.4	9.2	230	1.15	1.47	126	1000
1x25 RM	1.4	10.9	330	0.727	0.927	170	1000

LV CABLE APPLICATIONS

Single Core XLPE insulated & PVC Sheathed (N2XY) 35 mm² up to 800 mm² According to IEC 60502 0.6 / 1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)
	Number of Strands	Diameter of Strands (mm)	
1x35 RM	7	2.52	0.9
1x35 RM	19	1.53	0.9
1x50 RM	19	1.78	1
1x70 RM	19	2.14	1.1
1x95 RM	19	2.52	1.1
1x120 RM	37	2.03	1.2
1x150 RM	37	2.25	1.4
1x185 RM	37	2.52	1.6
1x240 RM	61	2.25	1.7
1x300 RM	61	2.52	1.8
1x400 RM	61	2.85	2
1x500 RM	61	3.20	2.2
1x630 RM	91	2.97	2.4
1x800 RM	91	3.35	2.6



Nominal Cross Section (mm ²)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Weight Approx (kg/km)	Conductor Resistance		Current Rating In Air (A)	Standard Length (m)
				at 20°c (Ω/km)	at 90°c (Ω/km)		
1x35 RM	1.4	12.1	435	0.524	0.668	210	1000
1x35 RM	1.4	12.3	440	0.524	0.668	210	1000
1x50 RM	1.4	13.6	590	0.387	0.493	255	1000
1x70 RM	1.5	15.8	792	0.268	0.342	325	1000
1x95 RM	1.6	17.9	1040	0.193	0.246	399	500
1x120 RM	1.6	19.6	1230	0.153	0.195	466	500
1x150 RM	1.7	21.9	1590	0.124	0.158	536	500
1x185 RM	1.8	24.3	1950	0.0991	0.126	621	500
1x240 RM	1.9	27.2	2490	0.0754	0.0961	743	500
1x300 RM	2	30.1	3090	0.0601	0.0766	856	500
1x400 RM	2.1	33.4	4060	0.0470	0.0599	1018	500
1x500 RM	2.2	37.6	5050	0.0366	0.0467	1173	500
1x630 RM	2.3	42.1	6350	0.0263	0.0359	1220	500
1x800 RM	2.5	47.1	7990	0.0221	0.0310	1310	500

LV CABLE APPLICATIONS

Single Core XLPE Insulated , Aluminum Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6 / 1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)
	Number of Strands	Diameter of Strands (mm)	
1x50 RM	19	1.78	1
1x70 RM	19	2.14	1.1
1x95 RM	19	2.52	1.1
1x120 RM	37	2.03	1.2
1x150 RM	37	2.25	1.4
1x185 RM	37	2.52	1.6
1x240 RM	61	2.25	1.7
1x300 RM	61	2.52	1.8
1x400 RM	61	2.85	2
1x500 RM	61	3.2	2.2



Nominal Cross Section (mm ²)	Bedding Thickness (mm)	Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
					at 20°C (Ω /km)	at 90°C (Ω /km)	
1x50 RM	1.2	0.5	1.8	19	0.387	0.493	255
1x70 RM	1.2	0.5	1.8	21	0.268	0.342	325
1x95 RM	1.2	0.5	1.8	23	0.193	0.246	399
1x120 RM	1.2	0.5	1.8	24.5	0.153	0.195	466
1x150 RM	1.2	0.5	1.9	27	0.124	0.158	536
1x185 RM	1.2	0.5	1.9	29	0.0991	0.126	621
1x240 RM	1.2	0.5	2	32	0.0754	0.0961	743
1x300 RM	1.2	0.5	2.1	35	0.0601	0.0766	856
1x400 RM	1.2	0.5	2.2	38	0.047	0.0599	1018
1x500 RM	1.3	0.5	2.4	43	0.0366	0.0467	1173

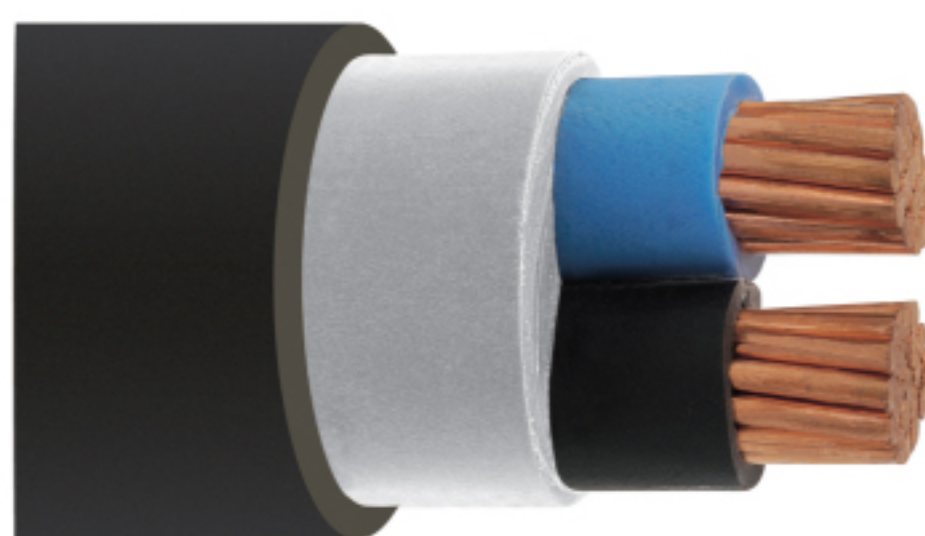
Single Core XLPE Insulated, Aluminum Wire Armored & PVC Sheathed (N2XYRY) According to IEC 60502 0.6 / 1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)
	Number of Strands	Diameter of Strands (mm)	
1x50 RM	19	1.78	1
1x70 RM	19	2.14	1.1
1x95 RM	19	2.52	1.1
1x120 RM	37	2.03	1.2
1x150 RM	37	2.25	1.4
1x185 RM	37	2.52	1.6
1x240 RM	61	2.25	1.7
1x300 RM	61	2.52	1.8
1x400 RM	61	2.85	2
1x500 RM	61	3.2	2.2



Nominal Cross Section (mm ²)	Armor Wire Diameter (mm)	Bedding Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω /km)		Current Rating In Air (A)
					At 20°C	At 90°C	
1x50 RM	1.6	1.2	1.8	20	0.387	0.493	255
1x70 RM	1.6	1.2	1.8	22	0.268	0.342	325
1x95 RM	1.6	1.2	1.8	24	0.193	0.246	399
1x120 RM	1.6	1.2	1.8	26	0.153	0.195	466
1x150 RM	1.6	1.2	1.9	28	0.124	0.158	536
1x185 RM	1.6	1.2	2	31	0.0991	0.126	621
1x240 RM	2	1.2	2.1	34.5	0.0754	0.0961	734
1x300 RM	2	1.2	2.2	37	0.0601	0.0766	856
1x400 RM	2	1.2	2.3	41	0.047	0.0599	1018
1x500 RM	2.5	1.3	2.5	46	0.0366	0.0467	1173

2 Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (A)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
2x1.5 RE	1	1.38	0.8	1.8	11.6	198	12.1	14.5	34	23	1000
2x1.5 RM	7	0.52	0.8	1.8	12	210	12.1	14.5	34	23	1000
2x2.5RE	1	1.78	0.8	1.8	12.4	235	7.41	8.87	42	30	1000
2x2.5RM	7	0.67	0.8	1.8	12.9	253	7.41	8.87	42	30	1000
2x4 RE	1	2.25	1	1.8	14.1	322	4.61	5.52	47	36	1000
2x4 RM	7	0.85	1	1.8	14.7	343	4.61	5.52	47	36	1000
2x6 RE	1	2.76	1	1.8	15.1	390	3.08	3.69	58	31	1000
2x6 RM	7	1.04	1	1.8	15.9	415	3.08	3.69	58	31	1000
2x10 RE	1	3.57	1	1.8	16.8	520	1.83	2.19	79	58	1000
2x10 RM	7	1.35	1	1.8	17.7	555	1.83	2.19	79	58	1000
2x16 RM	7	1.70	1	1.8	19.8	745	1.15	1.38	100	80	1000
2x25 RM	7	2.14	1.2	1.8	23.3	1070	0.727	0.870	132	105	500
2x35 RM	7	2.52	1.2	1.8	25.6	1355	0.524	0.627	159	131	500
2x35 RM	19	1.53	1.2	1.8	25.7	1365	0.524	0.627	159	131	500
2x50 RM	19	1.78	1.4	1.9	29.2	1815	0.387	0.463	188	160	500
2x70 RM	19	2.14	1.4	2.1	33.6	2500	0.268	0.321	231	206	500
2x95 RM	19	2.52	1.6	2.2	38.4	3360	0.193	0.231	277	248	500
2x120 RM	37	2.03	1.6	2.4	42.1	4040	0.153	0.183	318	295	500
2x150 RM	37	2.25	1.8	2.5	46.5	4980	0.124	0.148	355	340	500
2x185 RM	37	2.52	2	2.7	51.5	6160	0.0991	0.119	405	389	500
2x240RM	61	2.25	2.2	2.9	58.3	7853	0.0754	0.0902	467	465	500
2x300RM	61	2.52	2.4	3.1	64.4	9680	0.0601	0.0719	527	540	500

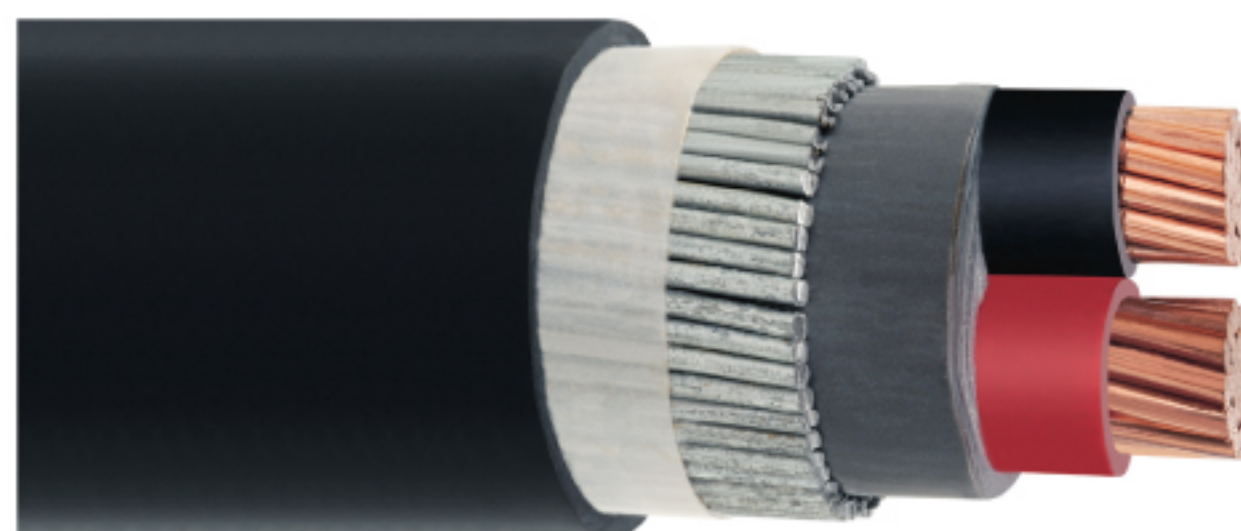
2 Core Steel Tape Armored Cable (NYBY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding Extruded (mm)	Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω/km)		Current Rating In Ground (A)
	Number of Strands	Diameter of Strands (mm)						At 20°C	At 70°C	
2x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	12.5	12.1	14.5	34
2x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	13	12.1	14.5	34
2x2.5RE	1	1.78	0.8	1.2	0.2	1.8	13.5	7.41	8.87	42
2x2.5RM	7	0.67	0.8	1.2	0.2	1.8	14	7.41	8.87	42
2x4 RE	1	2.25	1	1.2	0.2	1.8	15.3	4.61	5.52	47
2x4 RM	7	0.85	1	1.2	0.2	1.8	15.8	4.61	5.52	47
2x6 RE	1	2.76	1	1.2	0.2	1.8	16.3	3.08	3.69	58
2x6 RM	7	1.04	1	1.2	0.2	1.8	17	3.08	3.69	58
2x10 RE	1	3.57	1	1.2	0.2	1.8	18	1.83	2.19	79
2x10 RM	7	1.35	1	1.2	0.2	1.8	18.8	1.83	2.19	79
2x16 RM	7	1.70	1	1.2	0.2	1.8	21	1.15	1.38	100
2x25 RM	7	2.14	1.2	1.2	0.2	1.8	24.5	0.727	0.87	132
2x35 RM	7	2.52	1.2	1.2	0.2	1.8	26.7	0.524	0.627	159
2x50 RM	19	1.78	1.4	1.2	0.2	1.9	30.4	0.387	0.463	188
2x70 RM	19	2.14	1.4	1.2	0.2	2	34	0.268	0.321	231
2x95 RM	19	2.52	1.6	1.2	0.5	2.3	40.6	0.193	0.231	277
2x120 RM	37	2.03	1.6	1.3	0.5	2.4	43.8	0.153	0.183	318
2x150 RM	37	2.25	1.8	1.4	0.5	2.6	48.5	0.124	0.148	355
2x185 RM	37	2.52	2	1.5	0.5	2.7	53.5	0.0991	0.119	405
2x240 RM	61	2.25	2.2	1.6	0.5	3.0	60.5	0.0754	0.0902	467
2x300 RM	61	2.52	2.4	1.7	0.5	3.2	67	0.0601	0.0719	527
2x400 RM	61	2.85	2.6	1.9	0.5	3.4	74.5	0.0470	0.0562	630

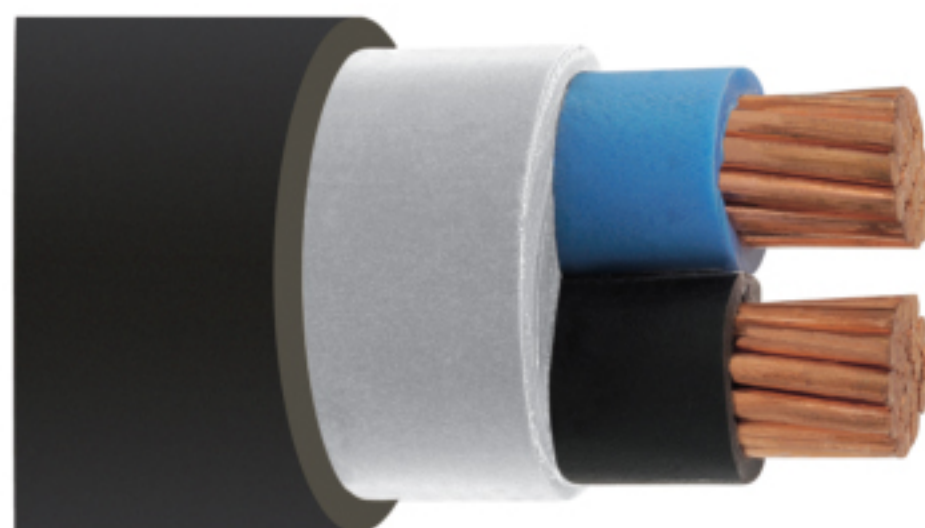
LV CABLE APPLICATIONS

2 Core, Steel Wire Armored cable (NYRY) PVC insulated & sheathed According to IEC 60502 0.6 /1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness Extruded (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance At 20°C (Ω/km)	Current Rating (A)
	Number of Strands	Diameter of Strands (mm)							
2x1.5 RE	1	1.38	0.8	1.2	0.9	1.8	13.6	12.1	34
2x1.5 RM	7	0.52	0.8	1.2	0.9	1.8	14.0	12.1	34
2x2.5 RE	1	1.78	0.8	1.2	0.9	1.8	14.4	7.41	42
2x2.5 RM	7	0.67	0.8	1.2	0.9	1.8	14.9	7.41	42
2x4 RE	1	2.25	1	1.2	1.25	1.8	16.1	4.61	47
2x4 RM	7	0.85	1	1.2	1.25	1.8	16.7	4.61	47
2x6 RE	1	2.76	1	1.2	1.25	1.8	17.2	3.08	58
2x6 RM	7	1.04	1	1.2	1.25	1.8	17.9	3.08	58
2x10 RE	1	3.57	1	1.2	1.25	1.8	18.8	1.83	79
2x10 RM	7	1.35	1	1.2	1.25	1.8	19.7	1.83	79
2x16 RM	7	1.70	1	1.2	1.6	1.8	21.6	1.15	100
2x25 RM	7	2.14	1.2	1.2	1.6	1.9	27.1	0.727	132
2x35 RM	7	2.52	1.2	1.2	1.6	1.9	29.4	0.524	159
2x50 RM	19	1.78	1.4	1.2	2	2.1	34	0.387	188
2x70 RM	19	2.14	1.4	1.2	2	2.2	37.8	0.268	231
2x95 RM	19	2.52	1.6	1.3	2	2.4	43	0.193	277
2x120 RM	37	2.03	1.6	1.3	2.5	2.5	47.5	0.153	318
2x150 RM	37	2.25	1.8	1.4	2.5	2.7	51.9	0.124	355
2x185 RM	37	2.52	2	1.5	2.5	2.8	56.9	0.0991	405
2x240 RM	61	2.25	2.2	1.6	2.5	3.1	63.5	0.0754	467
2x300 RM	61	2.52	2.4	1.7	3.15	3.3	71.5	0.0601	527
2x400 RM	61	2.85	2.6	1.9	3.15	3.5	78.6	0.0470	630

2 Core XLPE insulated & PVC sheathed (N2XY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Weight Approx (kg/km)	Conductor Resistance		Current Rating in Air (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					at 20°C (Ω/km)	at 90°C (Ω/km)		
2x1.5 RE	1	1.38	0.7	1.8	11.2	180	12.1	15.4	31	1000
2x1.5 RM	7	0.52	0.7	1.8	11.6	190	12.1	15.4	31	1000
2x2.5 RE	1	1.78	0.7	1.8	12	210	7.41	9.45	41	1000
2x2.5 RM	7	0.67	0.7	1.8	12.4	235	7.41	9.45	41	1000
2x4 RE	1	2.25	0.7	1.8	12.9	270	4.61	5.88	55	1000
2x4 RM	7	0.85	0.7	1.8	13.4	290	4.61	5.88	55	1000
2x6 RE	1	2.76	0.7	1.8	14	340	3.08	3.93	70	1000
2x6 RM	7	1.04	0.7	1.8	14.6	360	3.08	3.93	70	1000
2x10 RE	1	3.57	0.7	1.8	15.6	460	1.83	2.33	95	1000
2x10 RM	7	1.35	0.7	1.8	16.4	490	1.83	2.33	95	1000
2x16 RM	7	1.70	0.7	1.8	18.6	670	1.15	1.47	126	1000
2x25 RM	7	2.14	0.9	1.8	21.8	970	0.727	0.927	170	500
2x35 RM	7	2.52	0.9	1.8	24.2	1252	0.524	0.668	202	500
2x35 RM	19	1.53	0.9	1.8	24.5	1260	0.524	0.668	202	500
2x50 RM	19	1.78	1	1.9	27.6	1680	0.387	0.493	244	500
2x70 RM	19	2.14	1.1	2	32.2	2310	0.268	0.342	306	500
2x95 RM	19	2.52	1.1	2.2	36.4	3026	0.193	0.246	378	500
2x120 RM	37	2.03	1.2	2.3	40.3	3760	0.153	0.195	437	500
2x150 RM	37	2.25	1.4	2.4	44.7	4665	0.124	0.158	499	500
2x185 RM	37	2.52	1.6	2.6	49.7	5740	0.0991	0.126	576	500
2x240 RM	61	2.25	1.7	2.8	56.1	7370	0.0754	0.0961	680	500
2x300 RM	61	2.52	1.8	3	61.8	9070	0.0601	0.0766	775	500

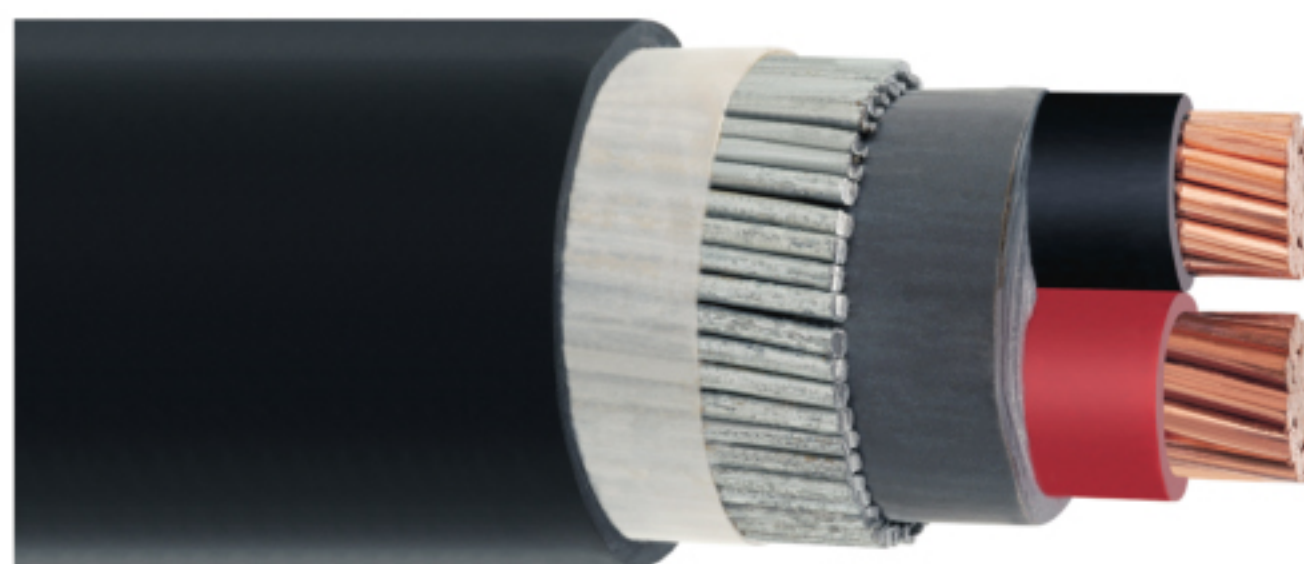
LV CABLE APPLICATION

2 Core XLPE Insulated, Steel Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6 / 1 kV



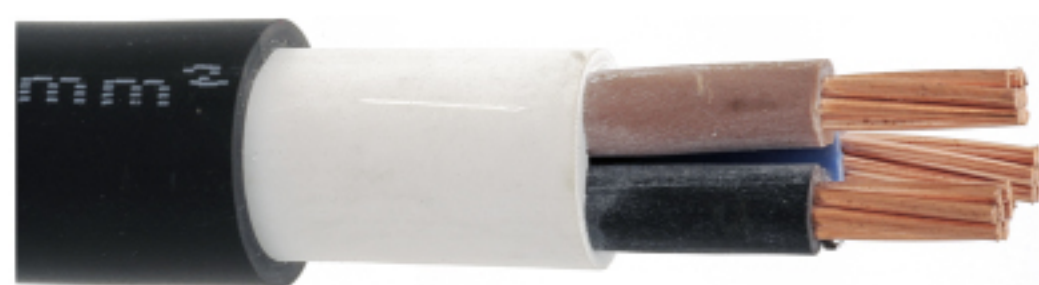
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
2x1.5RE	1	1.38	0.7	1.2	0.2	1.8	12.5	12.1	15.4	31
2x1.5RM	7	0.52	0.7	1.2	0.2	1.8	13	12.1	15.4	31
2x2.5RE	1	1.78	0.7	1.2	0.2	1.8	13	7.41	9.45	41
2x2.5RM	7	0.67	0.7	1.2	0.2	1.8	13.5	7.41	9.45	41
2x4 RE	1	2.25	0.7	1.2	0.2	1.8	14	4.61	5.88	55
2x4 RM	7	0.85	0.7	1.2	0.2	1.8	14.5	4.61	5.88	55
2x6 RE	1	2.76	0.7	1.2	0.2	1.8	15	3.08	3.93	70
2x6 RM	7	1.04	0.7	1.2	0.2	1.8	16	3.08	3.93	70
2x10 RE	1	3.57	0.7	1.2	0.2	1.8	16.5	1.83	2.33	95
2x10 RM	7	1.35	0.7	1.2	0.2	1.8	17.5	1.83	2.33	95
2x16 RM	7	1.70	0.7	1.2	0.2	1.8	19.5	1.15	1.47	126
2x25RM	7	2.14	0.9	1.2	0.2	1.8	23	0.727	0.927	170
2x35RM	7	2.52	0.9	1.2	0.2	1.8	25.5	0.524	0.668	202
2x50RM	19	1.78	1	1.2	0.2	1.9	28.5	0.387	0.493	244
2x70RM	19	2.14	1.1	1.2	0.2	2	33	0.268	0.342	306
2x95RM	19	2.52	1.1	1.2	0.5	2.2	38	0.193	0.246	378
2x120RM	37	2.03	1.2	1.3	0.5	2.3	42	0.153	0.195	437
2x150RM	37	2.25	1.4	1.3	0.5	2.5	46.5	0.124	0.158	499
2x185RM	37	2.52	1.6	1.4	0.5	2.6	51.5	0.0991	0.126	576
2x240RM	61	2.25	1.7	1.5	0.5	2.8	57.5	0.0754	0.0961	680

2 Core XLPE Insulated Steel Wire Armored & PVC Sheathed (N2XYRY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
2x1.5 RE	1	1.38	0.7	1.2	0.9	1.8	13.2	12.1	15.4	31
2x1.5 RM	7	0.52	0.7	1.2	0.9	1.8	13.5	12.1	15.4	31
2x2.5 RE	1	1.78	0.7	1.2	0.9	1.8	14	7.41	9.45	41
2x2.5 RM	7	0.67	0.7	1.2	0.9	1.8	14.5	7.41	9.45	41
2x4 RE	1	2.25	0.7	1.2	0.9	1.8	15	4.61	5.88	55
2x4 RM	7	0.85	0.7	1.2	1.25	1.8	16.5	4.61	5.88	55
2x6 RE	1	2.76	0.7	1.2	1.25	1.8	17	3.08	3.93	70
2x6 RM	7	1.04	0.7	1.2	1.25	1.8	17.5	3.08	3.93	70
2x10 RE	1	3.57	0.7	1.2	1.25	1.8	18.5	1.83	2.33	95
2x10 RM	7	1.35	0.7	1.2	1.25	1.8	19.5	1.83	2.33	95
2x16 RM	7	1.70	0.7	1.2	1.6	1.8	22	1.15	1.47	126
2x25 RM	7	2.14	0.9	1.2	1.6	1.9	26	0.727	0.927	170
2x35 RM	7	2.52	0.9	1.2	1.6	1.9	28.5	0.524	0.668	202
2x50 RM	19	1.78	1	1.2	1.6	2.1	32	0.387	0.493	244
2x70RM	19	2.14	1.1	1.2	2	2.2	37	0.268	0.342	306
2x95RM	19	2.52	1.1	1.2	2	2.3	41	0.193	0.246	378
2x120 RM	37	2.03	1.2	1.3	2.5	2.5	46	0.153	0.195	437
2x150RM	37	2.25	1.4	1.4	2.5	2.6	50	0.124	0.158	499
2x185RM	37	2.52	1.6	1.5	2.5	2.8	55.5	0.0991	0.126	576
2x240RM	61	2.25	1.7	1.6	2.5	3	62	0.754	0.961	680

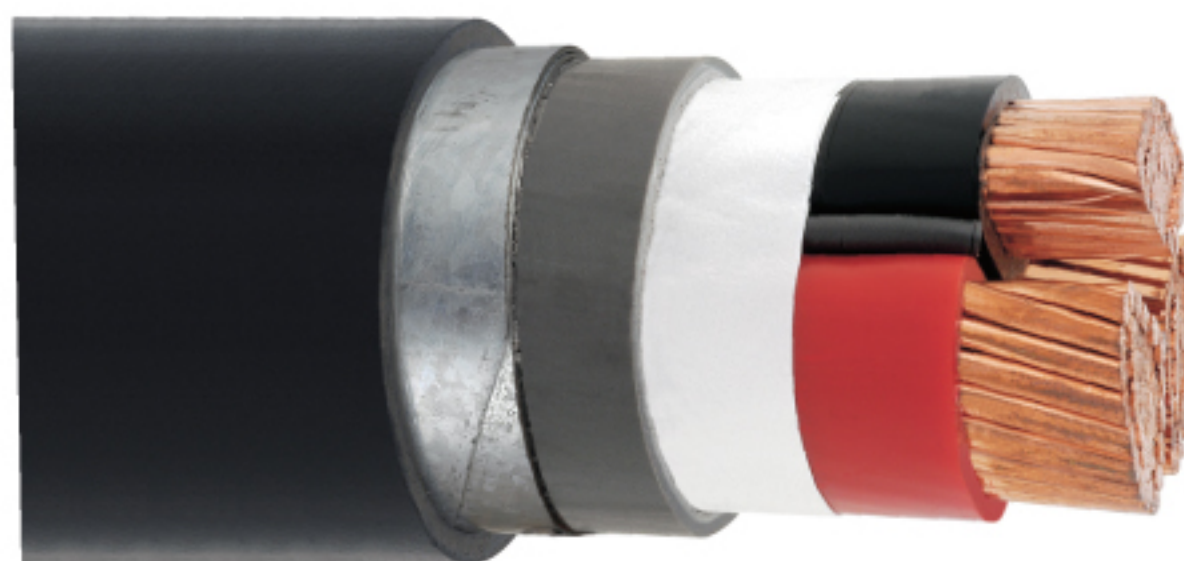
3 Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
3x1.5 RE	1	1.38	0.8	1.8	12	220	12.1	14.5	25	18.2	1000
3x1.5 RM	7	0.52	0.8	1.8	12.4	225	12.1	14.5	25	18.2	1000
3x2.5 RE	1	1.78	0.8	1.8	12.9	250	7.41	8.87	34	24	1000
3x2.5 RM	7	0.67	0.8	1.8	13.4	287	7.41	8.87	34	24	1000
3x4 RE	1	2.25	1	1.8	14.8	370	4.61	5.52	44	32	1000
3x4 RM	7	0.85	1	1.8	15.4	394	4.61	5.52	44	32	1000
3x6 RE	1	2.76	1	1.8	15.9	460	3.08	3.69	55	41	1000
3x6 RM	7	1.04	1	1.8	16.6	485	3.08	3.69	55	41	1000
3x10 RE	1	3.57	1	1.8	17.6	625	1.83	2.19	75	56	1000
3x10 RM	7	1.35	1	1.8	18.6	660	1.83	2.19	75	56	1000
3x16 RM	7	1.70	1	1.8	20.9	900	1.15	1.38	98	74	500
3x25 RM	7	2.14	1.2	1.8	24.6	1320	0.727	0.870	128	100	500
3x35 RM	7	2.52	1.2	1.8	27.2	1680	0.524	0.627	155	122	500
3x35 RM	19	1.53	1.2	1.8	27.2	1690	0.524	0.627	155	122	500
3x50 SM	19	1.95	1.4	1.8	25	1780	0.387	0.463	184	144	500
3x70 SM	19	2.31	1.4	1.9	28.4	2450	0.268	0.321	225	188	500
3x95 SM	19	2.68	1.6	2	32.6	3290	0.193	0.231	271	232	500
3x120 SM	37	2.19	1.6	2.1	35.4	4160	0.153	0.183	309	268	500
3x150 SM	37	2.42	1.8	2.3	39.6	5030	0.124	0.148	348	308	500
3x185 SM	37	2.68	2	2.4	44	6230	0.0991	0.119	394	354	500
3x240 SM	37	2.08	2.2	2.6	49.7	8030	0.0754	0.0902	458	419	500
3x300 SM	61	2.68	2.4	2.8	55.1	9790	0.0601	0.0719	516	480	500
3x400 SM	91	305	2.6	3	61	13100	0.0470	0.0562	591	560	500

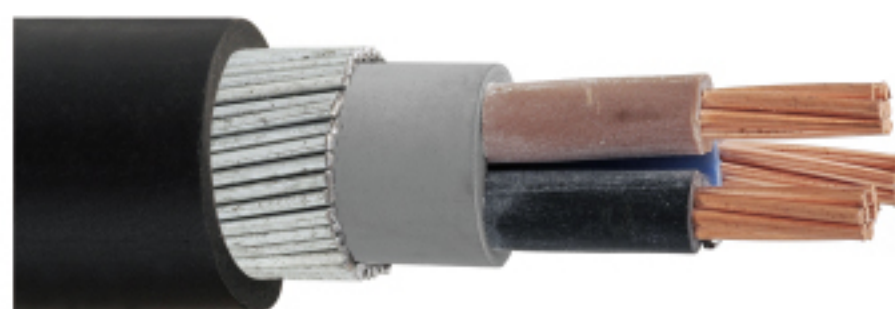
LV CABLE APPLICATIONS

3 Core Steel Tape Armored Cables (NYBY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV



Nominal Cross Section	Conductor Specification		Insulation Thickness	Thickness of Bedding		Armor Tape Thickness	Sheath Thickness	Overall Diameter	Conductor Resistance (Ω /km)		Current Rating
	Number of Strands	Diameter of Strands		Lapped	Extruded				At 20 ^o c	At 70 ^o c	
(mm ²)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)			(A)
3x1.5 RE	1	1.38	0.8	-	1.2	0.2	1.8	13.2	12.1	14.5	25
3x1.5 RM	7	0.52	0.8	-	1.2	0.2	1.8	13.6	12.1	14.5	25
3x2.5RE	1	1.78	0.8	-	1.2	0.2	1.8	14.1	7.41	8.87	34
3x2.5RM	7	0.67	0.8	-	1.2	0.2	1.8	14.6	7.41	8.87	34
3x4 RE	1	2.25	1	-	1.2	0.2	1.8	16	4.61	5.52	44
3x4 RM	7	0.85	1	-	1.2	0.2	1.8	16.6	4.61	5.52	44
3x6 RE	1	2.76	1	-	1.2	0.2	1.8	17.1	3.08	3.69	55
3x6 RM	7	1.04	1	-	1.2	0.2	1.8	17.8	3.08	3.69	55
3x10 RE	1	3.56	1	-	1.2	0.2	1.8	18.8	1.83	2.19	75
3x10 RM	7	1.35	1	-	1.2	0.2	1.8	19.8	1.83	2.19	75
3x16 RM	7	1.70	1	-	1.2	0.2	1.8	22.1	1.15	1.38	98
3x25 RM	7	2.14	1.2	-	1.2	0.2	1.8	25.8	0.727	0.87	128
3x35 RM	7	2.52	1.2	-	1.2	0.2	1.9	28.4	0.524	0.627	155
3x50 SM	19	1.95	1.4	0.8	1.2	0.2	1.9	29	0.387	0.463	184
3x70 SM	19	2.31	1.4	0.8	1.2	0.2	2	32.5	0.268	0.321	225
3x95 SM	19	2.68	1.6	0.8	1.2	0.5	2.2	38	0.193	0.231	271
3x120 SM	37	2.19	1.6	0.8	1.2	0.5	2.2	40	0.153	0.183	309
3x150 SM	37	2.42	1.8	0.8	1.3	0.5	2.5	46.5	0.124	0.148	348
3x185 SM	37	2.68	2	0.8	1.4	0.5	2.5	49	0.0991	0.119	394
3x240 SM	37	2.08	2.2	0.8	1.5	0.5	2.8	56.5	0.0754	0.0902	458
3x300 SM	61	2.68	2.4	0.8	1.6	0.5	2.9	61	0.0601	0.0719	516
3x400 SM	91	3.05	2.6	0.8	1.7	0.5	3.2	67.4	0.0470	0.0562	591

3 Core Steel Wire Armored Cable (NYRY) PVC insulated & sheathed According to IEC 60502 0.6/1 kV



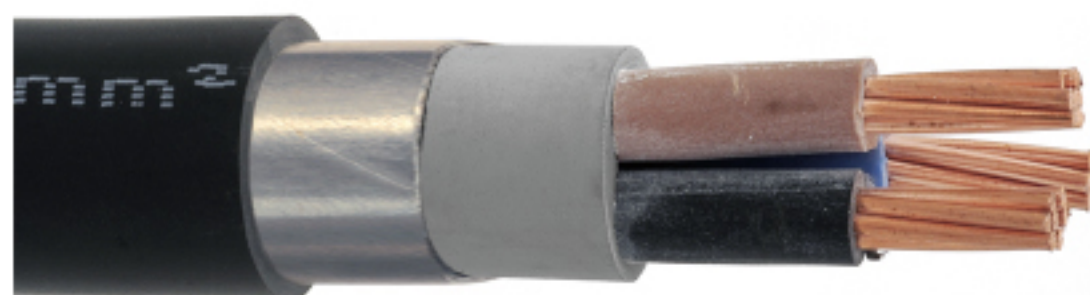
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness		Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω/km)		Current Rating (A)
	Number of Strands	Diameter of Strands (mm)		Extruded (mm)	Lapped (mm)				at 20°C	at 70°C	
3x1.5 RE	1	1.38	0.8	-	1.2	0.9	1.8	14.1	12.1	14.5	25
3x1.5 RM	7	0.52	0.8	-	1.2	0.9	1.8	14.5	12.1	14.5	25
3x2.5 RE	1	1.78	0.8	-	1.2	0.9	1.8	15	7.41	8.87	34
3x2.5 RM	7	0.67	0.8	-	1.2	1.25	1.8	15.5	7.41	8.87	34
3x4 RE	1	2.25	1	-	1.2	1.25	1.8	16.9	4.61	5.52	44
3x4 RM	7	0.85	1	-	1.2	1.25	1.8	17.5	4.61	5.52	44
3x6 RE	1	2.76	1	-	1.2	1.25	1.8	18	3.08	3.69	55
3x6 RM	7	1.04	1	-	1.2	1.25	1.8	18.7	3.08	3.69	55
3x10 RE	1	3.56	1	-	1.2	1.25	1.8	19.7	1.83	2.19	75
3x10 RM	7	1.35	1	-	1.2	1.6	1.8	22.2	1.83	2.19	75
3x16 RM	7	1.70	1	-	1.2	1.6	1.8	24.6	1.15	1.38	98
3x25 RM	7	2.14	1.2	-	1.2	1.6	1.9	28.5	0.727	0.87	128
3x35 RM	7	2.52	1.2	-	1.2	1.6	1.9	31	0.524	0.627	155
3x50 SM	19	1.95	1.4	0.8	1.2	1.6	2	32	0.387	0.463	184
3x70 SM	19	2.31	1.4	0.8	1.2	2	2.1	35.5	0.268	0.321	225
3x95 SM	19	2.68	1.6	0.8	1.2	2	2.2	40	0.193	0.231	271
3x120 SM	37	2.19	1.6	0.8	1.2	2	2.3	42	0.153	0.183	309
3x150 SM	37	2.42	1.8	0.8	1.3	2.5	2.6	50	0.124	0.148	348
3x185 SM	37	2.68	2	0.8	1.4	2.5	2.6	52	0.0991	0.119	394
3x240 SM	37	3.08	2.2	0.8	1.5	2.5	2.9	60	0.0754	0.0902	458
3x300 SM	61	2.68	2.4	0.8	1.5	2.5	3.1	64.7	0.0601	0.0719	516
3x400 SM	91	3.05	2.6	0.8	1.6	3.15	3.3	72	0.0470	0.0562	591

3 Core XLPE insulated & PVC sheathed (N2XY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Weight Approx (kg/km)	Conductor Resistance		Current Rating in Air (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					at 20°C (Ω/km)	at 90°C (Ω/km)		
3x1.5 RE	1	1.38	0.7	1.8	11.6	210	12.1	15.4	24	1000
3x1.5 RM	7	0.52	0.7	1.8	12	212	12.1	15.4	24	1000
3x2.5 RE	1	1.78	0.7	1.8	12.5	260	7.41	9.45	32	1000
3x2.5 RM	7	0.67	0.7	1.8	13	265	7.41	9.45	32	1000
3x4 RE	1	2.25	0.7	1.8	13.5	315	4.61	5.88	42	1000
3x4 RM	7	0.85	0.7	1.8	14.1	335	4.61	5.88	42	1000
3x6 RE	1	2.76	0.7	1.8	14.6	400	3.08	3.93	53	1000
3x6 RM	7	1.04	0.7	1.8	15.4	425	3.08	3.93	53	1000
3x10 RE	1	3.57	0.7	1.8	16.3	560	1.83	2.33	73	1000
3x10 RM	7	1.35	0.7	1.8	17.4	590	1.83	2.33	73	1000
3x16 RM	7	1.7	0.7	1.8	19.6	830	1.15	1.47	96	500
3x25 RM	7	2.14	0.9	1.8	23.3	1210	0.727	0.927	130	500
3x35 RM	7	2.52	0.9	1.8	25.8	1580	0.524	0.668	160	500
3x35 RM	19	1.53	0.9	1.8	28.7	1680	0.524	0.668	160	500
3x50 SM	19	1.95	1	1.8	23	1660	0.387	0.493	195	500
3x70 SM	19	2.31	1.1	1.9	27	2310	0.268	0.342	247	500
3x95 SM	19	2.68	1.1	2	31	3080	0.193	0.246	305	500
3x120 SM	37	2.19	1.2	2.1	34.5	3850	0.153	0.195	355	500
3x150 SM	37	2.42	1.4	2.2	38	4720	0.124	0.158	407	500
3x185 SM	37	2.68	1.6	2.4	43	5900	0.0991	0.126	469	500
3x240 SM	37	3.06	1.7	2.5	48	7000	0.0754	0.0961	551	500
3x300 SM	61	2.68	1.8	2.7	53	9150	0.0601	0.0766	638	500

3 Core XLPE Insulated, Steel Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)				at 20°C (Ω/km)	at 90°C (Ω/km)	
3x1.5RE	1	1.38	0.7	-	1.2	0.2	1.8	13	12.1	15.4	24
3x1.5RM	7	0.52	0.7	-	1.2	0.2	1.8	13.5	12.1	15.4	24
3x2.5RE	1	1.78	0.7	-	1.2	0.2	1.8	14	7.41	9.45	32
3x2.5RM	7	0.67	0.7	-	1.2	0.2	1.8	14.5	7.41	9.45	32
3x4RE	1	2.25	0.7	-	1.2	0.2	1.8	15	4.61	5.88	42
3x4RM	7	0.85	0.7	-	1.2	0.2	1.8	15.5	4.61	5.88	42
3x6RE	1	2.76	0.7	-	1.2	0.2	1.8	16	3.08	3.93	53
3x6RM	7	1.04	0.7	-	1.2	0.2	1.8	16.5	3.08	3.93	53
3x10RE	1	3.56	0.7	-	1.2	0.2	1.8	18	1.83	2.33	73
3x10RM	7	1.35	0.7	-	1.2	0.2	1.8	18.5	1.83	2.33	73
3x16RM	7	1.70	0.7	-	1.2	0.2	1.8	21	1.15	1.47	96
3x25RM	7	2.14	0.9	-	1.2	0.2	1.8	24.5	0.727	0.927	130
3x35RM	7	2.52	0.9	-	1.2	0.2	1.9	27.5	0.524	0.668	160
3x50SM	19	1.95	1	0.8	1.2	0.2	1.9	29.5	0.387	0.493	195
3x70SM	19	2.31	1.1	0.8	1.2	0.2	2	32	0.268	0.342	247
3x95SM	19	2.68	1.1	0.8	1.2	0.5	2.2	37	0.193	0.246	305
3x120SM	37	2.19	1.2	0.8	1.2	0.5	2.3	40.5	0.153	0.195	355
3x150SM	37	2.42	1.4	0.8	1.3	0.5	2.4	44.5	0.124	0.158	407
3x185SM	37	2.68	1.6	0.8	1.4	0.5	2.6	49	0.0991	0.126	469
3x240SM	37	3.08	1.7	0.8	1.5	0.5	2.7	54	0.0754	0.0961	551
3x300SM	61	2.68	1.8	0.8	1.6	0.5	2.9	59	0.0601	0.0766	638

3 Core XLPE Insulated ,Steel Wire Armored & PVC sheathed (N2XYRY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω/km)		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)				at 20°c	at 90°c	
3x1.5 RE	1	1.38	0.7	-	1.2	0.9	1.8	13.5	12.1	15.4	24
3x1.5 RM	7	0.52	0.7	-	1.2	0.9	1.8	14	12.1	15.4	24
3x2.5 RE	1	1.78	0.7	-	1.2	1.25	1.8	15.5	7.41	9.45	32
3x2.5 RM	7	0.67	0.7	-	1.2	1.25	1.8	16	7.41	9.45	32
3x4 RE	1	2.25	0.7	-	1.2	1.25	1.8	16.5	4.61	5.88	42
3x4 RM	7	0.85	0.7	-	1.2	1.25	1.8	17.5	4.61	5.88	42
3x6 RE	1	2.76	0.7	-	1.2	1.25	1.8	18	3.08	3.93	53
3x6 RM	7	1.04	0.7	-	1.2	1.25	1.8	18.5	3.08	3.93	53
3x10 RE	1	3.56	0.7	-	1.2	1.25	1.8	19.5	1.83	2.33	73
3x10 RM	7	1.35	0.7	-	1.2	1.25	1.8	20.5	1.83	2.33	73
3x16 RM	7	1.70	0.7	-	1.2	1.6	1.8	23.5	1.15	1.47	96
3x25 RM	7	2.14	0.9	-	1.2	1.6	1.9	27.5	0.727	0.927	130
3x35 RM	7	2.52	0.9	-	1.2	1.6	2	30	0.524	0.668	160
3x50 SM	19	1.95	1	0.8	1.2	1.6	2	31	0.387	0.493	195
3x70 SM	19	2.31	1.1	0.8	1.2	2	2.1	36	0.268	0.342	247
3x95 SM	19	2.68	1.1	0.8	1.2	2	2.3	40	0.193	0.246	305
3x120 SM	37	2.19	1.2	0.8	1.2	2	2.4	43	0.153	0.195	355
3x150 SM	37	2.42	1.4	0.8	1.3	2.5	2.5	48	0.124	0.158	407
3x185 SM	37	2.68	1.6	0.8	1.4	2.5	2.7	52	0.0991	0.126	469
3x240 SM	37	3.08	1.7	0.8	1.5	2.5	3	58	0.0754	0.0961	551
3x300 SM	61	2.68	1.8	0.8	1.6	2.5	3	62	0.0601	0.0766	638

3½ Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω/km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°C	At 70°C	In Ground (A)	In Air (A)	
3x25/16 RM	07/07	2.14/1.7	1.2/1	1.8	26	1530	0.727	0.870	128	100	500
3x35/16 RM	07/07	2.52/1.7	1.2/1	1.8	28	1950	0.524	0.627	155	130	500
3x50/25 SM/RM	19/07	1.95/2.14	1.4/1.2	1.8	27	2035	0.387	0.463	184	149	500
3x70/35 SM/RM	19/07	2.31/2.52	1.4/1.2	2.0	32.0	2760	0.268	0.321	225	188	500
3x95/50 SM	19/19	2.68/1.95	1.6/1.4	2.1	35.2	3775	0.193	0.231	271	232	500
3x120/70 SM	37/19	2.19/2.31	1.6/1.4	2.2	39	4680	0.153	0.183	309	269	500
3x150/70 SM	37/19	2.42/2.31	1.8/1.4	2.3	42	5610	0.124	0.148	348	308	500
3x185/95 SM	37/19	2.68/2.68	2/1.6	2.5	47	7030	0.0991	0.119	394	354	500
3x240/120 SM	37/37	3.05/2.33	2.2/1.6	2.7	54	8995	0.0754	0.0902	458	419	500
3x300/150 SM	61/37	2.68/2.42	2.4/1.8	3	62.5	11350	0.0601	0.719	518	481	500

3¹/₂ Core Steel Tape Armored Cable (NYBY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding	
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)
3x25/16 RM	7/ 7	2.14/1.7	1.2/1	-	1.2
3x35/16 RM	7/ 7	2.52/1.7	1.2/1	-	1.2
3x50/25 SM/RM	19/ 7	1.95/2.14	1.4/1.2	0.8	1.2
3x70/35 SM/RM	19/ 7	2.31/2.52	1.4/1.2	0.8	1.2
3x95/50 SM	19/19	2.68/1.95	1.6/1.4	0.8	1.2
3x120/70 SM	37/19	2.19/2.31	1.6/1.4	0.8	1.3
3x150/70 SM	37/19	2.42/2.31	1.8/1.4	0.8	1.4
3x185/95 SM	37/19	2.68/2.68	2/1.6	0.8	1.4
3x240/120 SM	37/37	3.05/2.33	2.2/1.6	0.8	1.6
3x300/150 SM	61/37	2.68/2.42	2.4/1.8	0.8	1.7



Nominal Cross Section (mm ²)	Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω/km)		Current Rating		Standard Length (m)
					At 20°C	At 70°C	In Ground (A)	In Air (A)	
3x25/16 RM	0.2	1.9	28	1530	0.727	0.870	128	100	500
3x35/16 RM	0.2	2	31.1	1950	0.524	0.627	155	130	500
3x50/25 SM/RM	0.2	2.1	33.1	2035	0.387	0.463	184	149	500
3x70/35 SM/RM	0.5	2.1	36.6	2760	0.268	0.321	225	188	500
3x95/50 SM	0.5	2.2	40	3775	0.193	0.231	271	232	500
3x120/70 SM	0.5	2.4	44	4680	0.153	0.183	309	269	500
3x150/70 SM	0.5	2.5	48	5610	0.124	0.148	348	308	500
3x185/95 SM	0.5	2.6	52	7030	0.0991	0.119	394	354	500
3x240/120 SM	0.5	3	60	8995	0.0754	0.0902	458	419	500
3x300/150 SM	0.5	3.2	68.4	11350	0.0601	0.0719	518	481	500

LV CABLE APPLICATIONS

3½ Core Wire Armored Cable (NYRY) PVC Insulated & PVC Sheathed According to IEC 60502 0.6/1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding
	Number of Strands	Diameter of Strands (mm)		Extruded (mm)
3x25/16 RM	7/ 7	2.14/1.7	1.2/1	1.2
3x35/16 RM	7/ 7	2.52/1.7	1.2/1	1.2
3x50/25 SM/RM	19/ 7	1.95/2.14	1.4/1.2	1.2
3x70/35 SM/RM	19/ 7	2.31/2.52	1.4/1.2	1.2
3x95/50 SM	19/19	2.68/1.95	1.6/1.4	1.2
3x120/70 SM	37/19	2.19/2.31	1.6/1.4	1.3
3x150/70 SM	37/19	2.42/2.31	1.8/1.4	1.4
3x185/95 SM	37/19	2.68/2.68	2/1.6	1.4
3x240/120 SM	37/37	3.05/2.33	2.2/1.6	1.6
3x300/150 SM	61/37	2.68/2.42	2.4/1.8	1.7



Nominal Cross Section (mm ²)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
				At 20°C	At 70°C	In Ground (A)	In Air (A)	
3x25/16 RM	1.6	1.9	29.4	0.727/1.15	0.870/1.38	128	100	500
3x35/16 RM	1.6	2	31.5	0.524/1.15	0.627/1.38	155	130	500
3x50/25 SM/RM	1.6	2	30.5	0.387/0.727	0.463/0.870	184	149	500
3x70/35 SM/RM	2	2.2	38	0.268/0.524	0.321/0.627	225	188	500
3x95/50 SM	2	2.3	42	0.193/0.387	0.231/0.463	271	232	500
3x120/70 SM	2.5	2.5	47	0.153/0.268	0.183/0.321	309	296	500
3x150/70 SM	2.5	2.6	50.5	0.124/0.268	0.148/0.321	348	308	500
3x185/95 SM	2.5	2.7	55	0.0991/0.193	0.119/0.231	394	354	500
3x240/120 SM	2.5	3	63	0.0754/0.153	0.0902/0.183	458	419	500
3x300/150 SM	3.15	3.3	73	0.0601/0.124	0.0719/0.148	518	481	500

LV CABLE APPLICATIONS

3½ Core XLPE Insulated & PVC Sheath (N2XY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section	Conductor Specification		Insulation Thickness	Sheath Thickness	Overall Diameter Approx.	Conductor Resistance at 20°C	Current Rating In Air	Standard Length
	Number of Strands	Diameter of Strands						
(mm ²)		(mm)	(mm)	(mm)	(mm)	(Ω/km)	(A)	(m)
3x25/16 RM	7/7	2.14/1.7	0.9/0.7	1.8	25.3	0.727/1.15	128	500
3x35/16 RM	7/7	2.52/1.7	0.9/0.7	1.9	28	0.524/1.15	158	500
3x50/25 SM/RM	19/7	1.95/2.14	1/0.9	1.8	26	0.387/0.727	188	500
3x70/35 SM/RM	19/7	2.31/2.52	1.1/0.9	1.9	30	0.268/0.524	239	500
3x95/50 SM	19/19	2.68/1.95	1.0/1.1	2	33	0.193/0.387	293	500
3x120/70 SM	37/19	2.19/2.31	1.2/1.1	2.1	36.5	0.153/0.268	342	500
3x150/70 SM	37/19	2.42/2.31	1.4/1.1	2.3	41.5	0.124/0.268	393	500
3x185/95 SM	37/19	2.68/2.68	1.6/1.1	2.4	45	0.0991/0.193	454	500
3x240/120 SM	37/37	3.08/2.23	1.7/1.2	2.7	53.5	0.0754/0.153	539	500
3x300/150 SM	61/37	2.68/2.42	1.8/1.4	2.9	59.5	0.0601/0.124	609	500

3½ Core XLPE Insulated ,Steel Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6 / 1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding Extruded (mm)
	Number of Standard	Diameter of Strands (mm)		
3x25/16 RM	7/7	2.14/1.7	0.9/0.7	1.2
3x35/16 RM	7/7	2.52/1.7	0.9/0.7	1.2
3x50/25 SM/RM	19/7	1.95/2.14	1/0.9	1.2
3x70/35 SM/RM	19/7	2.31/2.52	1.1/0.9	1.2
3x95/50 SM	19/19	2.68/1.95	1.1/1	1.2
3x120/70 SM	37/19	2.19/2.31	1.2/1.1	1.2
3x150/70 SM	37/19	2.42/2.31	1.4/1.1	1.4
3x185/95 SM	37/19	2.68/2.68	1.6/1.1	1.5
3x240/120 SM	37/37	3.08/2.23	1.7/1.2	1.6
3x300/150 SM	61/37	2.68/2.42	1.8/1.4	1.7



Nominal Cross Section (mm ²)	Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
				at 20°C	at 90°C	In Ground (A)	In Air (A)	
3x25/16 RM	0.2	1.9	26.7	0.727/1.15	0.927/1.47	128	128	500
3x35/16 RM	0.2	1.9	29.5	0.524/1.15	0.668/1.47	155	158	500
3x50/25 SM/RM	0.2	2	31.2	0.387/0.727	0.493/0.927	184	188	500
3x70/35 SM/RM	0.2	2.1	33.4	0.268/0.524	0.342/0.668	225	239	500
3x95/50 SM	0.5	2.2	36.8	0.193/0.387	0.246/0.493	271	293	500
3x120/70 SM	0.5	2.3	39	0.153/0.268	0.195/0.342	309	342	500
3x150/70 SM	0.5	2.5	47.8	0.124/0.268	0.158/0.342	348	393	500
3x185/95 SM	0.5	2.7	53.9	0.0991/0.193	0.126/0.246	394	454	500
3x240/120 SM	0.5	2.9	60	0.0754/0.153	0.0961/0.195	458	539	500
3x300/150 SM	0.5	3.1	65.3	0.0601/0.124	0.0766/0.158	518	609	500

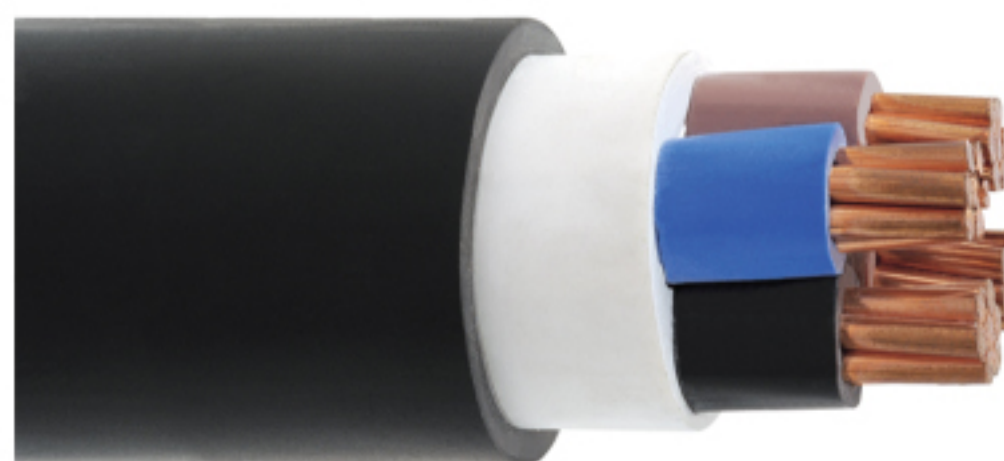
3½ Core XLPE Insulated, Steel Wire Armored & PVC Sheathed (N2XYRY) According to IEC 60502 0.6/1 kV

Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)
	Number of Strands	Diameter of Strands (mm)	
3x25/16 RM	7/7	2.14/1.7	0.9/0.7
3x35/16 RM	7/7	2.52/1.7	0.9/0.7
3x50/25SM/RM	19/7	1.95/2.14	1/0.9
3x70/35SM/RM	19/7	2.31/2.52	1.1/0.9
3x95/50SM	19/19	2.68/1.95	1.1/1
3x120/70SM	37/19	2.19/2.31	1.2/1.1
3x150/70SM	37/19	2.42/2.31	1.4/1.1
3x185/95SM	37/19	2.68/2.68	1.6/1.1
3x240/120SM	37/37	3.05/2.33	1.7/1.2
3x300/150SM	61/37	2.68/2.42	1.8/1.4



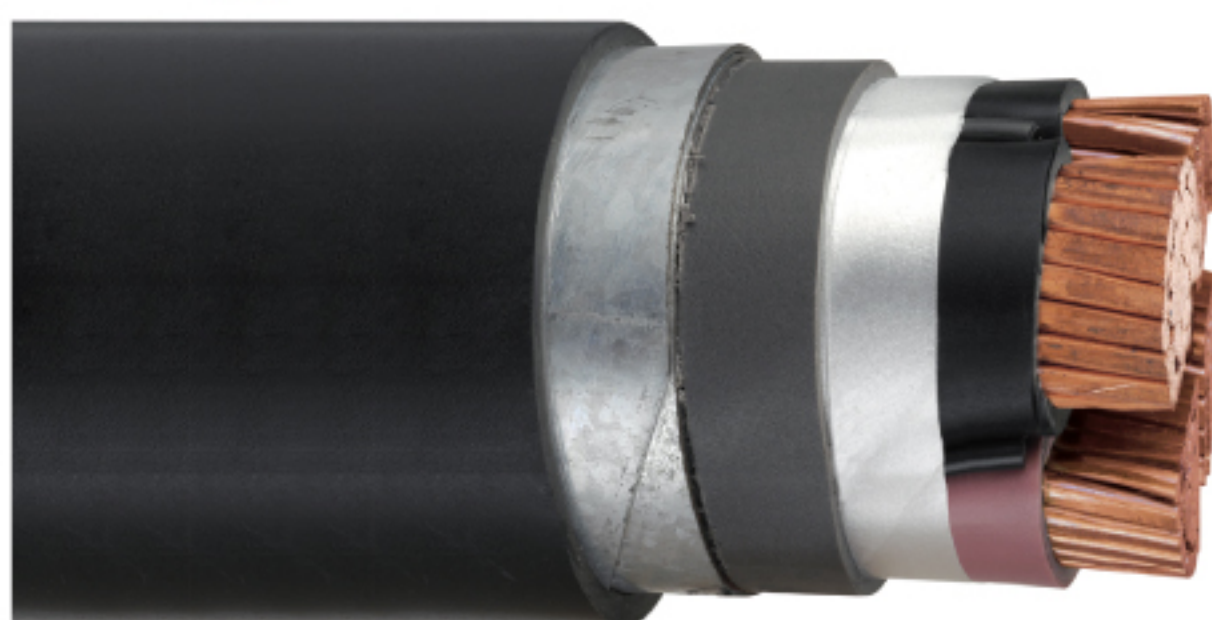
Nominal Cross Section (mm ²)	Thickness of Bedding Extruded (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Conductor Resistance (Ω /km)		Current Rating In Air (A)	Standard Length (A)
					At 20°C	At 90°C		
3x25/16 RM	1.2	1.6	1.8	29.1	0.727/1.15	0.927/1.47	128	500
3x35/16 RM	1.2	1.6	2	32.1	0.524/1.15	0.668/1.47	158	500
3x50/25SM/RM	1.2	2	2.1	34.8	0.387/0.727	0.493/0.927	188	500
3x70/35SM/RM	1.2	2	2.1	35.6	0.268/0.524	0.342/0.668	239	500
3x95/50SM	1.2	2	2.2	38.7	0.193/0.387	0.246/0.493	293	500
3x120/70SM	1.2	2	2.3	41	0.153/0.268	0.195/0.342	342	500
3x150/70SM	1.4	2.5	2.6	51	0.124/0.268	0.158/0.342	393	500
3x185/95SM	1.5	2.5	2.9	57.3	0.0991/0.193	0.126/0.246	454	500
3x240/120SM	1.6	3.15	3.1	64.7	0.0754/0.153	0.961/0.195	539	500
3x300/150SM	1.7	3.15	3.3	70	0.0601/0.124	0.0766/0.158	609	500

4 Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 0.6/1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°C	At 70°C	In Ground (A)	In Air (A)	
4x1.5 RE	1	1.38	0.8	1.8	12.8	255	12.1	14.5	26	18.6	1000
4x1.5 RM	7	0.52	0.8	1.8	13.2	270	12.1	14.5	26	18.6	1000
4x2.5RE	1	1.78	0.8	1.8	13.8	315	7.41	8.87	34	25	1000
4x2.5RM	7	0.67	0.8	1.8	14.3	335	7.41	8.87	34	25	1000
4x4 RE	1	2.25	1	1.8	15.9	440	4.61	5.52	44	33	1000
4x4 RM	7	0.85	1	1.8	16.6	465	4.61	5.52	44	33	1000
4x6 RE	1	2.76	1	1.8	17.1	548	3.08	3.69	56	42	1000
4x6 RM	7	1.04	1	1.8	18	575	3.08	3.69	56	42	1000
4x10 RE	1	3.57	1	1.8	19	755	1.83	2.19	75	57	1000
4x10 RM	7	1.35	1	1.8	20.2	790	1.83	2.19	75	57	1000
4x16 RM	7	1.70	1	1.8	22.8	1095	1.15	1.38	98	75	500
4x25 RM	7	2.14	1.2	1.9	27.1	1625	0.727	0.870	129	102	500
4x35 RM	7	2.52	1.2	2	30	2195	0.524	0.627	155	130	500
4x35 RM	19	1.53	1.2	2	30.3	2110	0.524	0.627	155	130	500
4x50 SM	19	1.95	1.4	2	30	2300	0.387	0.463	185	152	500
4x70 SM	19	2.31	1.4	2.1	33	3150	0.268	0.321	228	193	500
4x95 SM	19	2.68	1.6	2.2	38	4250	0.193	0.231	274	238	500
4x120 SM	37	2.19	1.6	2.4	42	5300	0.153	0.183	313	276	500
4x150 SM	37	2.42	1.8	2.5	46	6450	0.124	0.148	352	315	500
4x185 SM	37	3.68	2	2.7	53	8650	0.0991	0.119	398	361	500
4x240 SM	37	3.08	2.2	2.9	59	11100	0.0754	0.0902	464	430	500
4x300 SM	61	2.68	2.4	3.1	65	13700	0.0601	0.0719	525	493	500

4 Core Steel Tape Armored Cable (NYBY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV



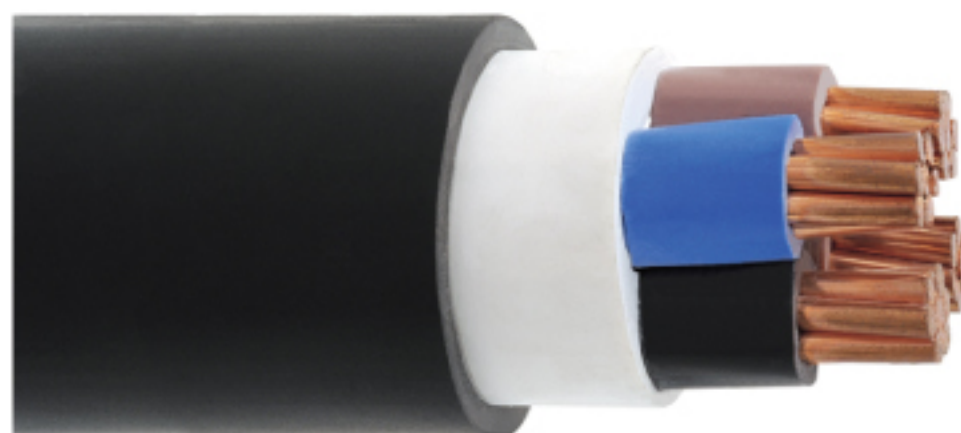
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω/km)		Current Rating In Ground (A)
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)				At 20°C	At 70°C	
4x1.5 RE	1	1.38	0.8	-	1.2	0.2	1.8	14	12.1	14.5	26
4x1.5 RM	7	0.52	0.8	-	1.2	0.2	1.8	14.4	12.1	14.5	26
4x2.5RE	1	1.78	0.8	-	1.2	0.2	1.8	15	7.41	8.87	34
4x2.5RM	7	0.67	0.8	-	1.2	0.2	1.8	15.5	7.41	8.87	34
4x4 RE	1	2.25	1	-	1.2	0.2	1.8	17	4.61	5.52	44
4x4 RM	7	0.85	1	-	1.2	0.2	1.8	17.8	4.61	5.52	44
4x6 RE	1	2.76	1	-	1.2	0.2	1.8	18.3	3.08	3.69	56
4x6 RM	7	1.04	1	-	1.2	0.2	1.8	19.1	3.08	3.69	56
4x10 RE	1	3.56	1	-	1.2	0.2	1.8	20.2	1.83	2.19	75
4x10 RM	7	1.35	1	-	1.2	0.2	1.8	21.4	1.83	2.19	75
4x16 RM	7	1.70	1	-	1.2	0.2	1.8	23.9	1.15	1.38	98
4x25 RM	7	2.14	1.2	-	1.2	0.2	1.9	28.2	0.727	0.87	129
4x35 RM	7	2.52	1.2	-	1.2	0.2	1.9	31	0.524	0.627	156
4x50 SM	19	1.95	1.4	0.8	1.2	0.2	2	33.5	0.387	0.463	185
4x70 SM	19	2.31	1.4	0.8	1.2	0.5	2.3	38	0.268	0.321	228
4x95 SM	19	2.68	1.6	0.8	1.3	0.5	2.4	43	0.193	0.231	274
4x120 SM	37	2.19	1.6	0.8	1.4	0.5	2.5	46.5	0.153	0.183	313
4x150 SM	37	2.42	1.8	0.8	1.4	0.5	2.6	51	0.124	0.148	352
4x185 SM	37	2.68	2	0.8	1.5	0.5	2.7	54	0.0991	0.119	398
4x240 SM	37	2.08	2.2	0.8	1.7	0.5	3.1	62	0.0754	0.0902	464
4x300 SM	61	2.68	2.4	0.8	1.7	0.5	3.3	67	0.0601	0.0719	525
4x400 SM	91	3.05	2.6	0.8	1.8	0.5	3.6	75	0.0470	0.0562	602

4 Core Steel Wire Armored Cable (NYRY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV



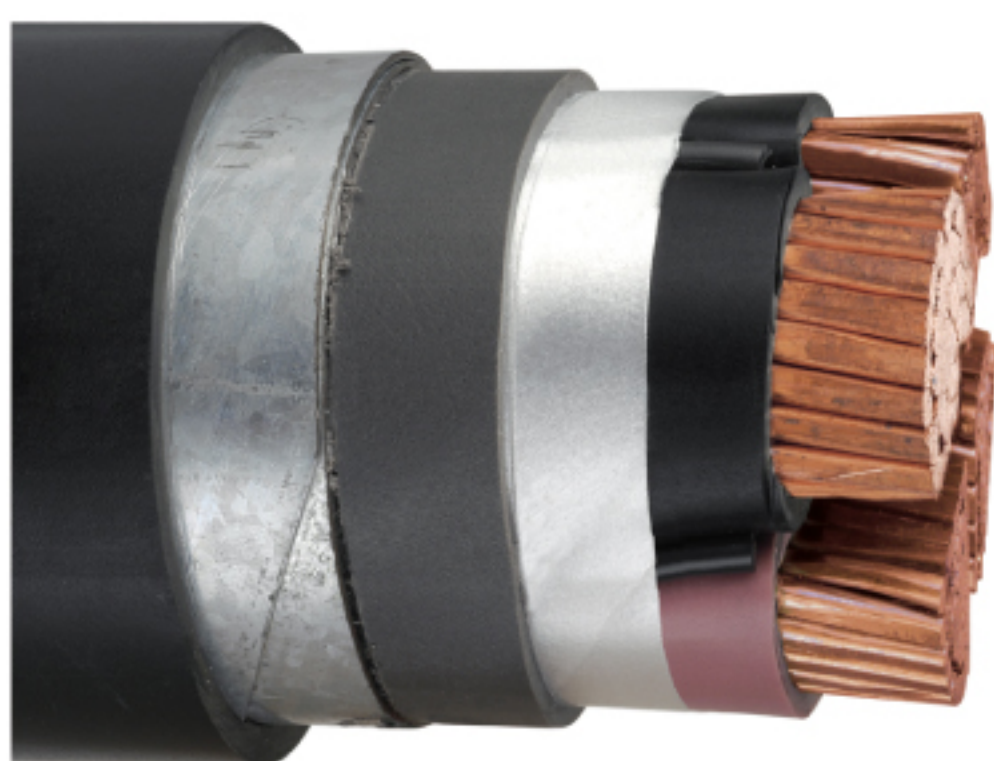
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω /km)		Current Rating in Ground (A)
	Number of Strands	Diameter of Strands (mm)		Extruded (mm)	Lapped (mm)				At 20°c	At 70°c	
4x1.5 RE	1	1.38	0.8	-	1.2	0.9	1.8	14.2	12.1	14.5	26
4x1.5 RM	7	0.62	0.8	-	1.2	0.9	1.8	14.6	12.1	14.5	26
4x2.5 RE	1	1.78	0.8	-	1.2	0.9	1.8	15.2	7.41	8.87	34
4x2.5 RM	7	0.67	0.8	-	1.2	0.9	1.8	15.7	7.41	8.87	34
4x4 RE	1	2.25	1	-	1.2	0.9	1.8	17.2	4.61	5.52	44
4x4 RM	7	0.85	1	-	1.2	0.9	1.8	18	4.61	5.52	44
4x6 RE	1	2.76	1	-	1.2	0.9	1.8	18.5	3.08	3.69	56
4x6 RM	7	1.04	1	-	1.2	0.9	1.8	19.3	3.08	3.69	56
4x10 RE	1	3.56	1	-	1.2	1.6	1.8	22.7	1.83	2.19	75
4x10 RM	7	1.35	1	-	1.2	1.6	1.8	23.9	1.83	2.19	75
4x16 RM	7	1.70	1	-	1.2	1.6	1.8	26.4	1.15	1.38	98
4x25 RM	7	2.14	1.2	-	1.2	1.6	2	30.9	0.727	0.87	129
4x35 RM	7	2.52	1.2	-	1.2	2	2.1	34.7	0.524	0.627	156
4x50 SM	19	1.95	1.4	0.8	1.2	2	2.2	37.5	0.387	0.463	185
4x70 SM	19	2.31	1.4	0.8	1.2	2	2.3	41.3	0.268	0.321	228
4x95 SM	19	2.68	1.6	0.8	1.3	2.5	2.5	47.6	0.193	0.231	274
4x120 SM	37	2.19	1.6	0.8	1.4	2.5	2.6	51	0.153	0.183	313
4x150 SM	37	2.42	1.8	0.8	1.4	2.5	2.8	55.5	0.124	0.148	352
4x185 SM	37	2.68	2	0.8	1.5	2.5	3	60.7	0.0991	0.119	398
4x240 SM	37	2.08	2.2	0.8	1.7	2.5	3.2	67.4	0.0754	0.0902	464
4x300 SM	61	2.68	2.4	0.8	1.7	3.15	3.4	75	0.0601	0.0719	525
4x400 SM	91	3.05	2.6	0.8	1.8	3.15	3.5	79	0.0470	0.0562	602

4 Core XLPE insulated & PVC sheathed (N2XY) According to IEC 60502 0.6/ 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Weight Approx. (kg/km)	Conductor Resistance		Current Rating In Air (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					at 20°C (Ω/km)	at 90°C (Ω/km)		
4x1.5RE	1	1.38	0.7	1.8	12.3	210	12.1	15.4	24	1000
4x1.5RM	7	0.52	0.7	1.8	12.7	212	12.1	15.4	24	1000
4x2.5RE	1	1.78	0.7	1.8	13.3	260	7.41	9.45	32	1000
4x2.5RM	7	0.67	0.7	1.8	13.8	265	7.41	9.45	32	1000
4x4RE	1	2.25	0.7	1.8	14.4	315	4.61	5.88	42	1000
4x4RM	7	0.85	0.7	1.8	15.1	335	4.61	5.88	42	1000
4x6RE	1	2.76	0.7	1.8	15.6	400	3.08	3.93	53	1000
4x6RM	7	1.04	0.7	1.8	16.5	425	3.08	3.93	53	1000
4x10RE	1	3.57	0.7	1.8	17.5	560	1.83	2.33	72	1000
4x10RM	7	1.35	0.7	1.8	18.7	590	1.83	2.33	72	1000
4x16RM	7	1.7	0.7	1.8	21.2	830	1.15	1.47	96	500
4x25RM	7	2.14	0.9	1.8	25.4	1210	0.727	0.927	131	500
4x35RM	7	2.52	0.9	1.8	28.1	1580	0.524	0.668	162	500
4x35RM	19	1.53	0.9	1.8	28.5	1680	0.524	0.668	162	500
4x50SM	19	1.95	1	1.8	27.5	1660	0.387	0.493	195	500
4x70SM	19	2.31	1.1	2	31	2310	0.268	0.342	247	500
4x95SM	19	2.68	1.1	2.1	34	3080	0.193	0.246	305	500
4x120SM	37	2.19	1.2	2.2	38	3850	0.153	0.195	355	500
4x150SM	37	2.42	1.4	2.4	43	4720	0.124	0.158	408	500
4x185SM	37	2.68	1.6	2.5	46	5900	0.0991	0.126	469	500
4x240SM	37	3.06	1.7	2.7	49.2	7000	0.0754	0.0961	558	500
4x300SM	61	2.68	1.8	2.8	54.1	9150	0.0601	0.0766	650	500

4 Core XLPE insulated, steel Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6/ 1 kV



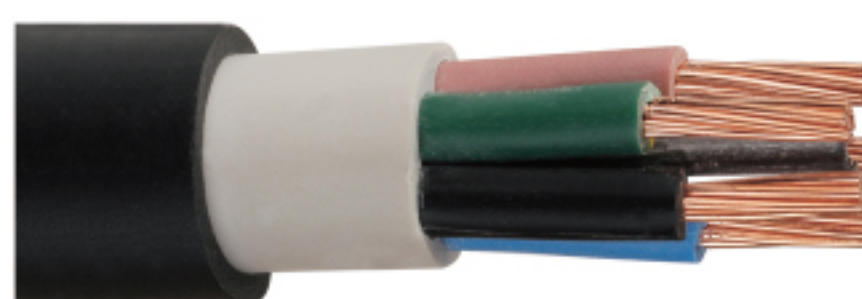
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)				at 20°c (Ω/km)	at 90°c (Ω/km)	
4x1.5RE	1	1.38	0.7	-	1.2	0.2	1.8	13.5	12.1	15.4	24
4x1.5RM	7	0.52	0.7	-	1.2	0.2	1.8	14	12.1	15.4	24
4x2.5RE	1	1.78	0.7	-	1.2	0.2	1.8	14.5	7.41	9.45	32
4x2.5RM	7	0.67	0.7	-	1.2	0.2	1.8	15	7.41	9.45	32
4x4 RE	1	2.25	0.7	-	1.2	0.2	1.8	16	4.61	5.88	42
4x4 RM	7	0.85	0.7	-	1.2	0.2	1.8	16.5	4.61	5.88	42
4x6 RE	1	2.76	0.7	-	1.2	0.2	1.8	17	3.08	3.93	53
4x6 RM	7	1.04	0.7	-	1.2	0.2	1.8	18	3.08	3.93	53
4x10 RE	1	3.56	0.7	-	1.2	0.2	1.8	19	1.83	2.33	72
4x10 RM	7	1.35	0.7	-	1.2	0.2	1.8	20	1.83	2.33	72
4x16 RM	7	1.70	0.7	-	1.2	0.2	1.8	22.5	1.15	1.47	96
4x25 RM	7	2.14	0.9	-	1.2	0.2	1.9	27	0.727	0.927	131
4x35 RM	7	2.52	0.9	-	1.2	0.2	1.9	30	0.524	0.668	162
4x50 SM	19	1.95	1	0.8	1.2	0.2	2	32	0.387	0.493	195
4x70 SM	19	2.31	1.1	0.8	1.2	0.5	2.2	37	0.268	0.342	247
4x95 SM	19	2.68	1.1	0.8	1.2	0.5	2.3	40	0.193	0.246	305
4x120 SM	37	2.19	1.2	0.8	1.3	0.5	2.4	44	0.153	0.195	355
4x150 SM	37	2.42	1.4	0.8	1.4	0.5	2.6	49	0.124	0.158	408
4x185 SM	37	2.68	1.6	0.8	1.5	0.5	2.7	52	0.0991	0.126	469
4x240 SM	37	3.08	1.7	0.8	1.6	0.5	2.9	58	0.0754	0.0961	558
4x300 SM	61	2.68	1.8	0.8	1.7	0.5	3	63	0.0601	0.0766	650

4 Core XLPE Insulated ,Steel Wire Armored & PVC sheathed (N2XYRY) According to IEC 60502 0.6/1 kV



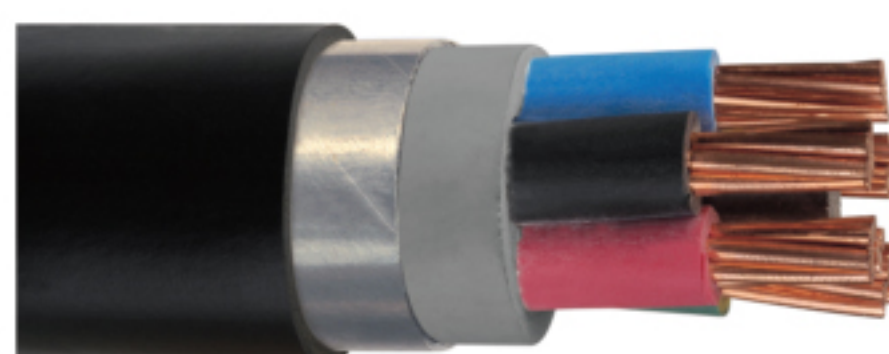
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding		Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (m)
	Number of Strands	Diameter of Strands (mm)		Lapped (mm)	Extruded (mm)				at 20°C (Ω/km)	at 90°C (Ω/km)	
4x1.5 RE	1	1.38	0.7	-	1.2	0.9	1.8	14.5	12.1	15.4	24
4x1.5 RM	7	0.52	0.7	-	1.2	0.9	1.8	15	12.1	15.4	24
4x2.5 RE	1	1.78	0.7	-	1.2	0.9	1.8	15.5	7.41	9.45	32
4x2.5 RM	7	0.67	0.7	-	1.2	0.9	1.8	16	7.41	9.45	32
4x4 RE	1	2.25	0.7	-	1.2	0.9	1.8	16.5	4.61	5.88	42
4x4 RM	7	0.85	0.7	-	1.2	0.9	1.8	17.5	4.61	5.88	42
4x6 RE	1	2.76	0.7	-	1.2	0.9	1.8	15.5	3.08	3.93	53
4x6 RM	7	1.04	0.7	-	1.2	0.9	1.8	19	3.08	3.93	53
4x10 RE	1	3.56	0.7	-	1.2	0.9	1.8	20	1.83	2.33	72
4x10 RM	7	1.35	0.7	-	1.2	1.6	1.8	22.5	1.83	2.33	72
4x16 RM	7	1.70	0.7	-	1.2	1.6	1.8	25	1.15	1.47	96
4x25 RM	7	2.14	0.9	-	1.2	1.6	1.9	29.5	0.727	0.927	131
4x35 RM	7	2.52	0.9	-	1.2	1.6	2	32	0.524	0.668	162
4x50 SM	19	1.95	1	0.8	1.2	2	2.1	35.5	0.387	0.493	195
4x70 SM	19	2.31	1.1	0.8	1.2	2	2.2	38.5	0.268	0.342	247
4x95 SM	19	2.68	1.1	0.8	1.2	2	2.3	42	0.193	0.246	305
4x120SM	37	2.19	1.2	0.8	1.3	2.5	2.5	47	0.153	0.195	355
4x150 SM	37	2.42	1.4	0.8	1.4	2.5	2.7	52.5	0.124	0.158	408
4x185 SM	37	2.68	1.6	0.8	1.5	2.5	2.8	55	0.0991	0.126	469
4x240SM	37	3.08	1.7	0.8	1.6	2.5	3	61	0.0754	0.0961	558
4x300 SM	61	2.68	1.8	0.8	1.7	2.5	3.2	68	0.0601	0.0766	650

5 Core PVC insulated & Sheathed Cable (NYY) According to IEC 60502 0.6/1 kV



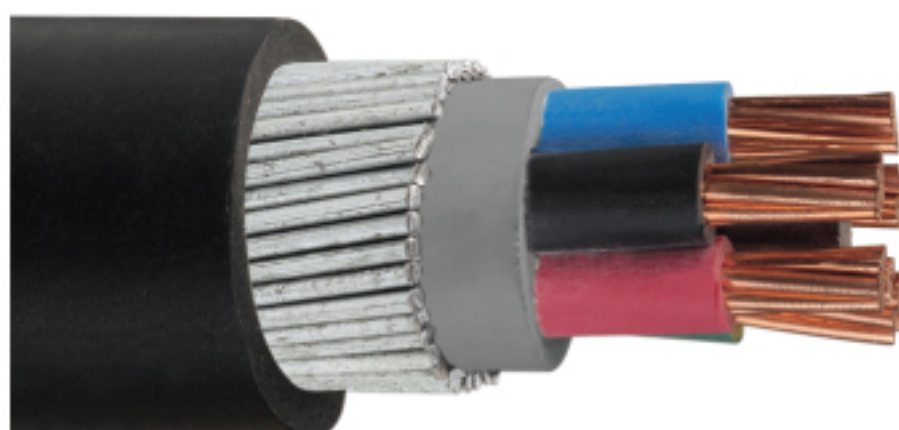
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
5x1.5 RE	1	1.38	0.8	1.8	13.5	292	12.1	14.5	26	18.6	1000
5x1.5RM	7	0.52	0.8	1.8	14	307	12.1	14.5	26	18.6	1000
5x2.5RE	1	1.78	0.8	1.8	14.5	368	7.41	8.87	34	25	1000
5x2.5RM	7	0.67	0.8	1.8	15	390	7.41	8.87	34	25	1000
5x4 RE	1	2.25	1	1.8	17	520	4.61	5.52	44	33	1000
5x4 RM	7	0.85	1	1.8	17.5	545	4.61	5.52	44	33	1000
5x6 RE	1	2.76	1	1.8	18.5	652	3.08	3.69	56	42	1000
5x6 RM	7	1.04	1	1.8	19	685	3.08	3.69	56	42	1000
5x10 RE	1	3.57	1	1.8	20.5	910	1.83	2.19	75	57	500
5x10 RM	7	1.35	1	1.8	22	955	1.83	2.19	75	57	500
5x16 RM	7	1.70	1	1.8	24.5	1330	1.15	1.38	98	75	500
5x25 RM	7	2.14	1.2	1.9	29.5	1995	0.727	0.870	129	102	500
5x35 RM	7	2.52	1.2	2	32.5	2610	0.524	0.627	155	130	500
5x35 RM	19	1.53	1.2	2	33	2620	0.524	0.627	155	130	500

5 Core Steel Tape Armored Cable (NYBY) PVC Insulated ,PVC Sheathed According to IEC 60502 0.6/1 kV



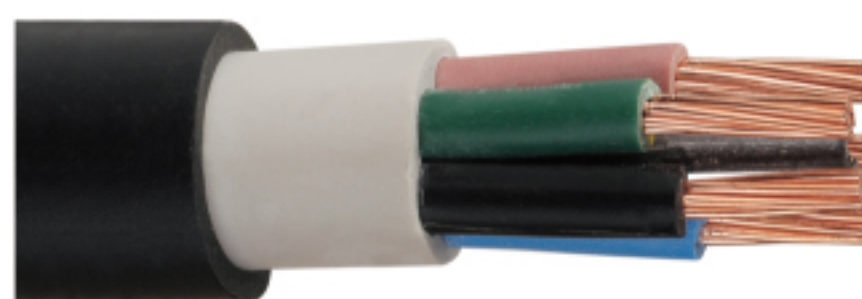
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thick (mm)	Armor Tape Thick (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating	
	Number of Strands	Diameter of Strands (mm)						At 20°c	At 70°c	In Ground (A)	In Air (A)
5x1.5 RE	1	1.38	0.8	1.8	0.2	15	292	12.1	14.5	26	18.6
5x1.5 RM	7	0.52	0.8	1.8	0.2	15.5	307	12.1	14.5	26	18.6
5x2.5 RE	1	1.78	0.8	1.8	0.2	16	368	7.41	8.87	34	25
5x2.5 RM	7	0.67	0.8	1.8	0.2	16.5	390	7.41	8.87	34	25
5x4 RE	1	2.25	1	1.8	0.2	18	520	4.61	5.52	44	33
5x4 RM	7	0.85	1	1.8	0.2	19	545	4.61	5.52	44	33
5x6 RE	1	2.76	1	1.8	0.2	19.5	652	3.08	3.69	56	42
5x6 RM	7	1.04	1	1.8	0.2	20.5	685	3.08	3.69	56	42
5x10 RE	1	3.57	1	1.8	0.2	22	910	1.83	2.19	75	57
5x10 RM	7	1.35	1	1.8	0.2	23	955	1.83	2.19	75	57
5x16 RM	7	1.70	1	1.8	0.2	26	1330	1.15	1.38	98	75
5x25 RM	7	2.14	1.2	1.9	0.2	31	1995	0.727	0.870	129	102
5x35 RM	7	2.52	1.2	2	0.2	34	2610	0.524	0.627	155	130

5 Core Steel Wire Armored Cable (NYRY) PVC Insulated & Sheathed According to IEC 60502 0.6/1 kV



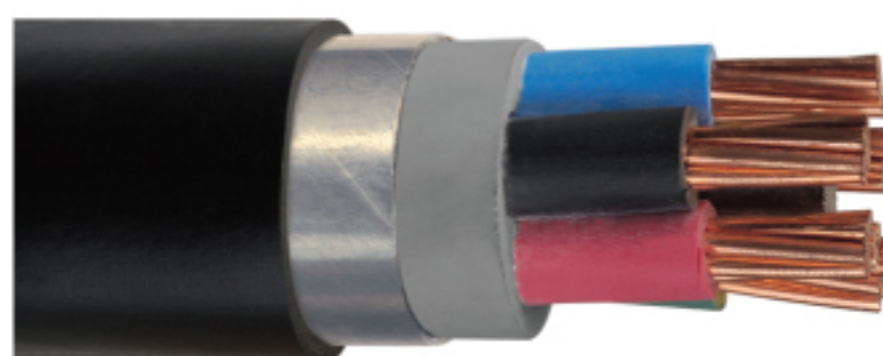
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Thickness of Bedding (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ω/km)		Current Rating in Ground (A)
	Number of Strands	Diameter of Strands (mm)						At 20°c	At 70°c	
5x1.5 RE	1	1.38	0.8	1.2	0.9	1.8	15.9	12.1	14.5	26
5x1.5 RM	7	0.52	0.8	1.2	0.9	1.8	16.4	12.1	14.5	26
5x2.5 RE	1	1.78	0.8	1.2	0.9	1.8	17	7.41	8.87	34
5x2.5 RM	7	0.67	0.8	1.2	0.9	1.8	17.6	7.41	8.87	34
5x4 RE	1	2.25	1	1.2	1.25	1.8	20	4.61	5.52	44
5x4 RM	7	0.85	1	1.2	1.25	1.8	20.8	4.61	5.52	44
5x6 RE	1	2.76	1	1.2	1.6	1.8	22.1	3.08	3.69	56
5x6 RM	7	1.04	1	1.2	1.6	1.8	23	3.08	3.69	56
5x10 RE	1	3.56	1	1.2	1.6	1.8	24.2	1.83	2.19	75
5x10 RM	7	1.35	1	1.2	1.6	1.8	25.6	1.83	2.19	75
5x16 RM	7	1.70	1	1.2	1.6	1.9	28.6	1.15	1.38	98
5x25 RM	7	2.14	1.2	1.2	2	2.1	34.4	0.727	0.87	129
5x35 RM	7	2.52	1.2	1.2	2	2.1	35.1	0.524	0.627	155

5 Core XLPE Insulated ,PVC Sheathed (N2XY) According to IEC 60502 0.6/1 kV



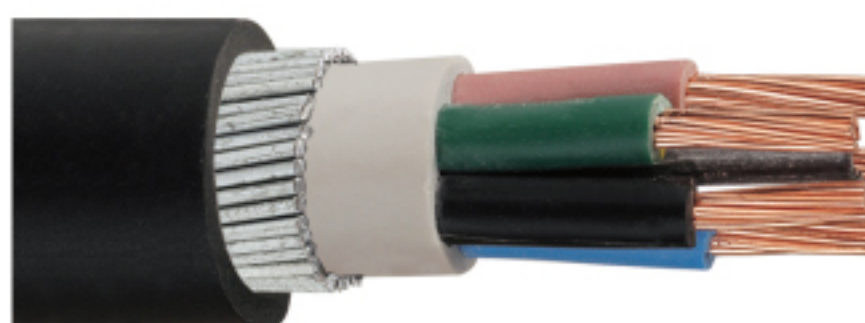
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Filler Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 90°c	
5x1.5 RE	1	1.38	0.7	1	1.8	13.1	12.1	15.4	24
5x1.5RM	7	0.52	0.7	1	1.8	13.6	12.1	15.4	24
5x2.5RE	1	1.78	0.7	1	1.8	14.2	7.41	9.45	32
5x2.5RM	7	0.67	0.7	1	1.8	14.8	7.41	9.45	32
5x4 RE	1	2.25	0.7	1	1.8	15.6	4.61	5.88	42
5x4 RM	7	0.85	0.7	1	1.8	16.3	4.61	5.88	42
5x6 RE	1	2.76	0.7	1	1.8	16.9	3.08	3.93	53
5x6 RM	7	1.04	0.7	1	1.8	17.8	3.08	3.93	53
5x10 RE	1	3.56	0.7	1	1.8	19	1.83	2.33	72
5x10 RM	7	1.35	0.7	1	1.8	20.3	1.83	2.33	72
5x16 RM	7	1.70	0.7	1	1.9	23.2	1.15	1.47	96
5x25RM	7	2.14	0.9	1	2	28	0.727	0.927	102
5x35RM	7	2.52	0.9	1.2	2.2	31.7	0.524	0.668	162

5 Core XLPE Insulated, Steel Tape Armored & PVC Sheathed (N2XYBY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°C (Ω/km)	at 90°C (Ω/km)	
5x1.5RE	1	1.38	0.7	1.2	0.2	1.8	14.3	12.1	15.4	24
5x1.5RM	7	0.52	0.7	1.2	0.2	1.8	14.8	12.1	15.4	24
5x2.5RE	1	1.78	0.7	1.2	0.2	1.8	15.4	7.41	9.45	32
5x2.5RM	7	0.67	0.7	1.2	0.2	1.8	16	7.41	9.45	32
5x4 RE	1	2.25	0.7	1.2	0.2	1.8	16.7	4.61	5.88	42
5x4 RM	7	0.85	0.7	1.2	0.2	1.8	17.5	4.61	5.88	42
5x6 RE	1	2.76	0.7	1.2	0.2	1.8	18	3.08	3.93	53
5x6 RM	7	1.04	0.7	1.2	0.2	1.8	19	3.08	3.93	53
5x10 RE	1	3.56	0.7	1.2	0.2	1.8	20.2	1.83	2.33	72
5x10 RM	7	1.35	0.7	1.2	0.2	1.8	21.5	1.83	2.33	72
5x16 RM	7	1.70	0.7	1.2	0.2	1.8	24.4	1.15	1.47	96
5x25RM	7	2.14	0.9	1.2	0.2	1.9	29.2	0.727	0.927	131
5x35RM	7	2.52	0.9	1.2	0.2	2	32.5	0.524	0.668	162

5 Core XLPE Insulated, Steel Wire Armored & PVC Sheathed (N2XYRY) According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
5x1.5RE	1	1.38	0.7	1.2	0.9	1.8	15.3	12.1	15.4	24
5x1.5RM	7	0.52	0.7	1.2	0.9	1.8	15.8	12.1	15.4	24
5x2.5RE	1	1.78	0.7	1.2	0.9	1.8	16.4	7.41	9.45	32
5x2.5RM	7	0.67	0.7	1.2	0.9	1.8	17	7.41	9.45	32
5x4 RE	1	2.25	0.7	1.2	0.9	1.8	17.7	4.61	5.88	42
5x4 RM	7	0.85	0.7	1.2	1.25	1.8	19.2	4.61	5.88	42
5x6 RE	1	2.76	0.7	1.2	1.25	1.8	19.8	3.08	3.93	53
5x6 RM	7	1.04	0.7	1.2	1.25	1.8	20.7	3.08	3.93	53
5x10 RE	1	3.56	0.7	1.2	1.6	1.8	22.6	1.83	2.33	72
5x10 RM	7	1.35	0.7	1.2	1.6	1.8	23.9	1.83	2.33	72
5x16 RM	7	1.70	0.7	1.2	1.6	1.9	27	1.15	1.47	96
5x25 RM	7	2.14	0.9	1.2	1.6	2	31.8	0.727	0.927	131
5x35 RM	7	2.52	0.9	1.2	2	2.2	36.1	0.524	0.668	162

Multi Core PVC insulated & Sheathed Cables (NYY) 1.5 mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating	
	Number of Strands	Diameter of Strands (mm)				at 20°c (Ω/km)	at 70°c (Ω/km)	In Ground (A)	In Air (A)
7x1.5 RE	1	1.38	0.8	1.8	12.7	12.1	14.5	15.6	12.0
7x1.5 RM	7	0.52	0.8	1.8	13.2	12.1	14.5	15.6	12.0
10x1.5 RE	1	1.38	0.8	1.8	15.6	12.1	14.5	13.0	10.2
10x1.5 RM	7	0.52	0.8	1.8	16.4	12.1	14.5	13.0	10.2
12x1.5 RE	1	1.38	0.8	1.8	16.1	12.1	14.5	12.4	9.7
12x1.5 RM	7	0.52	0.8	1.8	16.8	12.1	14.5	12.4	9.7
14x1.5 RE	1	1.38	0.8	1.8	16.8	12.1	14.5	11.7	9.3
14x1.5 RM	7	0.52	0.8	1.8	17.6	12.1	14.5	11.7	9.3
19x1.5 RE	1	1.38	0.8	1.8	16.8	12.1	14.5	10.4	8.3
19x1.5 RM	7	0.52	0.8	1.8	19.5	12.1	14.5	10.4	8.3
24x1.5 RE	1	1.38	0.8	1.8	21.6	12.1	14.5	9.1	7.4
24x1.5 RM	7	0.52	0.8	1.8	22.7	12.1	14.5	9.1	7.4
30x1.5 RE	1	1.38	0.8	1.8	22.8	12.1	14.5	8.5	6.9
30x1.5 RM	7	0.52	0.8	1.8	23.9	12.1	14.5	8.5	6.9
40x1.5 RE	1	1.38	0.8	1.9	27.5	12.1	14.5	7.8	6.5
40x1.5 RM	7	0.52	0.8	1.9	28.9	12.1	14.5	7.8	6.5
52x1.5 RE	1	1.38	0.8	1.9	29.1	12.1	14.5	7.2	6.2
52x1.5 RM	7	0.52	0.8	2	31	12.1	14.5	7.2	6.2
61x1.5 RE	1	1.38	0.8	2	31.1	12.1	14.5	6.1	5.3
61x1.5 RM	7	0.52	0.8	2.1	33.1	12.1	14.5	6.1	5.3

Multi Core PVC insulated & PVC Sheathed Cable (NYY) 2.5 mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating	
	Number of Strands	Diameter of Strands (mm)				at 20°C (Ω /km)	at 70°C (Ω /km)	In Ground (A)	In Air (A)
7x2.5 RE	1	1.78	0.8	1.8	13.9	7.41	8.87	20.0	16.3
7x2.5 RM	7	0.67	0.8	1.8	14.6	7.41	8.87	20.0	16.3
10x2.5 RE	1	1.78	0.8	1.8	17.2	7.41	8.87	17.0	13.8
10x2.5 RM	7	0.67	0.8	1.8	18.2	7.41	8.87	17.0	13.8
12x2.5 RE	1	1.78	0.8	1.8	17.8	7.41	8.87	16.2	13.1
12x2.5 RM	7	0.67	0.8	1.8	18.7	7.41	8.87	16.2	13.1
14x2.5 RE	1	1.78	0.8	1.8	16.8	7.41	8.87	15.3	12.5
14x2.5 RM	7	0.67	0.8	1.8	19.6	7.41	8.87	15.3	12.5
19x2.5 RE	1	1.78	0.8	1.8	20.6	7.41	8.87	13.6	11.1
19x2.5 RM	7	0.67	0.8	1.8	21.8	7.41	8.87	13.6	11.1
24x2.5 RE	1	1.78	0.8	1.8	24.0	7.41	8.87	11.9	10.0
24x2.5 RM	7	0.67	0.8	1.8	25.4	7.41	8.87	11.9	10.0
30x2.5 RE	1	1.78	0.8	1.8	25.4	7.41	8.87	11.1	9.4
30x2.5 RM	7	0.67	0.8	1.8	27.0	7.41	8.87	11.1	9.4
40x2.5 RE	1	1.78	0.8	1.8	31.1	7.41	8.87	10.2	8.8
40x2.5 RM	7	0.67	0.8	1.8	33.2	7.41	8.87	10.2	8.8
52x2.5 RE	1	1.78	0.8	2	32.5	7.41	8.87	9.5	8.9
52x2.5 RM	7	0.67	0.8	2.1	34.6	7.41	8.87	9.5	8.9
61x2.5 RE	1	1.78	0.8	2.1	34.8	7.40	8.87	8.3	7.5
61x2.5 RM	7	0.67	0.8	2.2	36.9	7.40	8.87	8.3	7.5

Multi Core Steel Tape Armored Cable (NYBY) PVC insulated & Sheathed 1.5mm² According to IEC 60502 0.6 / 1 kV



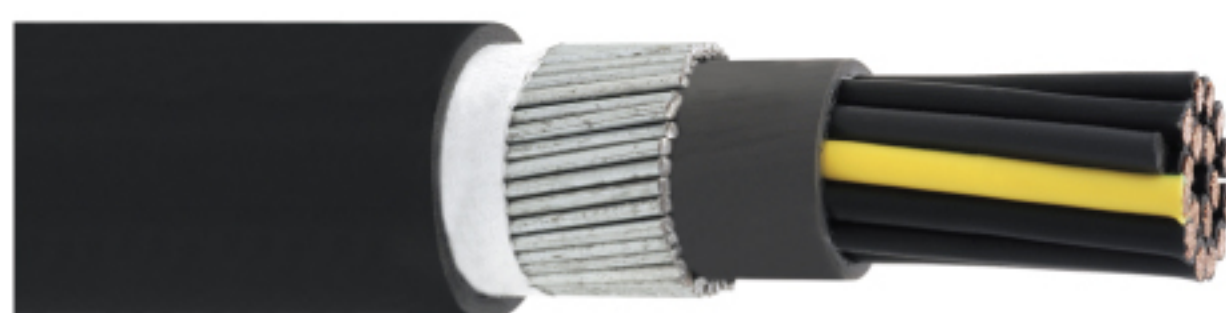
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armour Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Ground (m)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 70°c (Ω/km)	
7x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	15.8	12.1	14.5	15.6
7x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	16.3	12.1	14.5	15.6
10x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	18.7	12.1	14.5	13.0
10x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	19.5	12.1	14.5	13.0
12x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	17.2	12.1	14.5	12.4
12x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	19.9	12.1	14.5	12.4
14x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	19.9	12.1	14.5	11.7
14x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	20.7	12.1	14.5	11.7
19x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	21.7	12.1	14.5	10.4
19x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	22.6	12.1	14.5	10.4
24x1.5 RE	1	1.38	0.8	1.2	0.2	1.8	24.7	12.1	14.5	9.1
24x1.5 RM	7	0.52	0.8	1.2	0.2	1.8	25.8	12.1	14.5	9.1
30x1.5 RE	1	1.38	0.8	1.2	0.2	1.9	27.3	12.1	14.5	8.5
30x1.5 RM	7	0.52	0.8	1.2	0.2	1.9	27.2	12.1	14.5	8.5
40x1.5 RE	1	1.38	0.8	1.2	0.2	2	31	12.1	14.5	7.8
40x1.5 RM	7	0.52	0.8	1.2	0.2	2	32.4	12.1	14.5	7.8
52x1.5 RE	1	1.38	0.8	1.2	0.2	2	32.4	12.1	14.5	7.2
52x1.5 RM	7	0.52	0.8	1.2	0.2	2.1	34.3	12.1	14.5	7.2
61x1.5 RE	1	1.38	0.8	1.2	0.2	2.1	34.4	12.1	14.5	6.1
61x1.5 RM	7	0.52	0.8	1.2	0.5	2.2	37.6	12.1	14.5	6.1

Multi Core Steel Tape Armored Cable (NYBY) PVC insulated & Sheathed 2.5mm² According to IEC 60502 0.6 / 1 kV



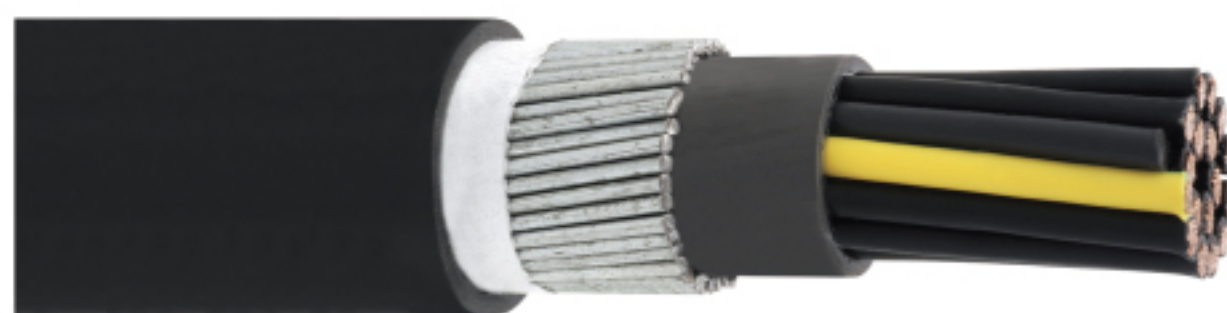
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armour Tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Ground (m)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 70°c (Ω/km)	
7x2.5RE	1	1.78	0.8	1.2	0.2	1.8	17	7.41	8.87	20
7x2.5RM	7	0.67	0.8	1.2	0.2	1.8	17.7	7.41	8.87	20
10x2.5RE	1	1.78	0.8	1.2	0.2	1.8	20.3	7.41	8.87	17
10x2.5RM	7	0.67	0.8	1.2	0.2	1.8	21.3	7.41	8.87	17
12x2.5 RE	1	1.78	0.8	1.2	0.2	1.8	20.9	7.41	8.87	16.2
12x2.5 RM	7	0.67	0.8	1.2	0.2	1.8	21.8	7.41	8.87	16.2
14x2.5 RE	1	1.78	0.8	1.2	0.2	1.8	21.8	7.41	8.87	15.3
14x2.5 RM	7	0.67	0.8	1.2	0.2	1.8	22.7	7.41	8.87	15.3
19x2.5 RE	1	1.78	0.8	1.2	0.2	1.8	23.7	7.41	8.87	13.6
19x2.5 RM	7	0.67	0.8	1.2	0.2	1.8	24.9	7.41	8.87	13.6
24x2.5 RE	1	1.78	0.8	1.2	0.2	1.9	27.3	7.41	8.87	11.9
24x2.5 RM	7	0.67	0.8	1.2	0.2	1.9	28.7	7.41	8.87	11.9
30x2.5 RE	1	1.78	0.8	1.2	0.2	1.9	28.7	7.41	8.87	11.1
30x2.5 RM	7	0.67	0.8	1.2	0.2	2	30	7.41	8.87	11.1
40x2.5 RE	1	1.78	0.8	1.2	0.2	2.1	34.4	7.41	8.87	10.2
40x2.5 RM	7	0.67	0.8	1.2	0.5	2.2	37.7	7.41	8.87	10.2
52x2.5 RE	1	1.78	0.8	1.2	0.5	2.2	37.2	7.41	8.87	9.5
52x2.5 RM	7	0.67	0.8	1.3	0.5	2.3	39.5	7.41	8.87	9.5
61x2.5 RE	1	1.78	0.8	1.3	0.5	2.3	39.7	7.40	8.87	8.3
61x2.5 RM	7	0.67	0.8	1.3	0.5	2.3	41.6	7.40	8.87	8.3

Multi Core Steel Wire Armored Cable (NYRY) PVC insulated & Sheathed 1.5mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armour Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Ground (A)
	Number of Strands	Diameter of Strands (mm)						at 20°C (Ω/km)	at 70°C (Ω/km)	
7x1.5 RE	1	1.38	0.8	1.2	0.9	1.8	16.9	12.1	14.5	15.6
7x1.5RM	7	0.52	0.8	1.2	0.9	1.8	17.4	12.1	14.5	15.6
10x1.5 RE	1	1.38	0.8	1.2	0.9	1.8	19.8	12.1	14.5	13.0
10x1.5 RM	7	0.52	0.8	1.2	1.6	1.8	22.0	12.1	14.5	13.0
12x1.5 RE	1	1.38	0.8	1.2	0.9	1.8	20.3	12.1	14.5	12.4
12x1.5 RM	7	0.52	0.8	1.2	1.6	1.8	22.4	12.1	14.5	12.4
14x1.5 RE	1	1.38	0.8	1.2	1.6	1.8	22.4	12.1	14.5	11.7
14x1.5 RM	7	0.52	0.8	1.2	1.6	1.8	23.2	12.1	14.5	11.7
19x1.5 RE	1	1.38	0.8	1.2	1.6	1.8	24.2	12.1	14.5	10.4
19x1.5 RM	7	0.52	0.8	1.2	1.6	1.8	25.1	12.1	14.5	10.4
24x1.5 RE	1	1.38	0.8	1.2	1.6	1.9	27.4	12.1	14.5	9.1
24x1.5 RM	7	0.52	0.8	1.2	1.6	1.9	28.4	12.1	14.5	9.1
30x1.5 RE	1	1.38	0.8	1.2	1.6	1.9	28.5	12.1	14.5	8.5
30x1.5 RM	7	0.52	0.8	1.2	1.6	2	29.9	12.1	14.5	8.5
40x1.5 RE	1	1.38	0.8	1.2	2	2.1	34.5	12.1	14.5	7.8
40x1.5 RM	7	0.52	0.8	1.2	2	2.2	36.1	12.1	14.5	7.8
52x1.5 RE	1	1.38	0.8	1.2	2	2.2	36.1	12.1	14.5	7.2
52x1.5 RM	7	0.52	0.8	1.2	2	2.2	37.8	12.1	14.5	7.2
61x1.5 RE	1	1.38	0.8	1.2	2	2.2	37.9	12.1	14.5	6.1
61x1.5 RM	7	0.52	0.8	1.2	2	2.3	39.9	12.1	14.5	6.1

Multi Core Steel Wire Armored Cable (NYRY) PVC insulated & Sheathed 2.5mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armour Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating in Ground (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω /km)	at 70°c (Ω /km)	
7x2.5 RE	1	1.78	0.8	1.2	0.9	1.8	18.1	7.41	8.87	20
7x2.5 RM	7	0.67	0.8	1.2	0.9	1.8	18.8	7.41	8.87	20
10x2.5 RE	1	1.78	0.8	1.2	1.6	1.8	22.8	7.41	8.87	17.0
10x2.5 RM	7	0.67	0.8	1.2	1.6	1.8	23.8	7.41	8.87	17.0
12x2.5 RE	1	1.78	0.8	1.2	1.6	1.8	23.4	7.41	8.87	16.2
12x2.5 RM	7	0.67	0.8	1.2	1.6	1.8	24.3	7.41	8.87	16.2
14x2.5 RE	1	1.78	0.8	1.2	1.6	1.8	24.3	7.41	8.87	15.3
14x2.5 RM	7	0.67	0.8	1.2	1.6	1.8	25.2	7.41	8.87	15.3
19x2.5 RE	1	1.78	0.8	1.2	1.6	1.8	26.2	7.41	8.87	13.6
19x2.5 RM	7	0.67	0.8	1.2	1.6	1.8	27.6	7.41	8.87	13.6
24x2.5 RE	1	1.78	0.8	1.2	1.6	1.9	30	7.41	8.87	11.9
24x2.5 RM	7	0.67	0.8	1.2	1.6	2	31.4	7.41	8.87	11.9
30x2.5 RE	1	1.78	0.8	1.2	1.6	2	31.4	7.41	8.87	11.1
30x2.5 RM	7	0.67	0.8	1.2	2	2.1	33.8	7.41	8.87	11.1
40x2.5 RE	1	1.78	0.8	1.2	2	2.2	37.9	7.41	8.87	10.2
40x2.5 RM	7	0.67	0.8	1.2	2	2.3	40	7.41	8.87	10.2
52x2.5 RE	1	1.78	0.8	1.2	2	2.3	39.5	7.41	8.87	9.5
52x2.5 RM	7	0.67	0.8	1.3	2	2.3	41.6	7.41	8.87	9.5
61x2.5 RE	1	1.78	0.8	1.3	2	2.4	42	7.40	8.87	8.3
61x2.5 RM	7	0.67	0.8	1.3	2	2.4	43.9	7.40	8.87	8.3

Multi Core XLPE Insulated & PVC Sheathed (N2XY) 1.5 mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)				at 20°c (Ω/km)	at 90°c (Ω/km)	
7x1.5 RE	1	1.38	0.7	1.8	12	12.1	15.4	15.6
7x1.5 RM	7	0.52	0.7	1.8	12.5	12.1	15.4	15.6
10x1.5 RE	1	1.38	0.7	1.8	14.5	12.1	15.4	13.2
10x1.5 RM	7	0.52	0.7	1.8	15.5	12.1	15.4	13.2
12x1.5 RE	1	1.38	0.7	1.8	15.2	12.1	15.4	12.6
12x1.5 RM	7	0.52	0.7	1.8	16.1	12.1	15.4	12.6
14x1.5 RE	1	1.38	0.7	1.8	15.8	12.1	15.4	12
14x1.5 RM	7	0.52	0.7	1.8	16.5	12.1	15.4	12
19x1.5 RE	1	1.38	0.7	1.8	17.5	12.1	15.4	10.8
19x1.5 RM	7	0.52	0.7	1.8	18.5	12.1	15.4	10.8
24x1.5 RE	1	1.38	0.7	1.8	20	12.1	15.4	9.6
24x1.5 RM	7	0.52	0.7	1.8	21	12.1	15.4	9.6
30x1.5 RE	1	1.38	0.7	1.8	21.5	12.1	15.4	9
30x1.5 RM	7	0.52	0.7	1.8	23	12.1	15.4	9
40x1.5 RE	1	1.38	0.7	1.8	24	12.1	15.4	8.4
40x1.5 RM	7	0.52	0.7	1.8	25.5	12.1	15.4	8.4
52x1.5 RE	1	1.38	0.7	1.9	27	12.1	15.4	8.1
52x1.5 RM	7	0.52	0.7	1.9	28.5	12.1	15.4	8.1
61x1.5 RE	1	1.38	0.7	1.9	29	12.1	15.4	7.2
61x1.5 RM	7	0.52	0.7	2	31	12.1	15.4	7.2

Multi Core XLPE Insulated & PVC Sheathed (N2XY) 2.5 mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)				at 20°c (Ω/km)	at 90°c (Ω/km)	
7x2.5 RE	1	1.78	0.7	1.8	13.2	7.41	9.45	21
7x2.5 RM	7	0.67	0.7	1.8	14	7.41	9.45	21
10x2.5 RE	1	1.78	0.7	1.8	16.5	7.41	9.45	17.6
10x2.5 RM	7	0.67	0.7	1.8	17.5	7.41	9.45	17.6
12x2.5 RE	1	1.78	0.7	1.8	17	7.41	9.45	16.8
12x2.5 RM	7	0.67	0.7	1.8	18	7.41	9.45	16.8
14x2.5 RE	1	1.78	0.7	1.8	17.5	7.41	9.45	16
14x2.5 RM	7	0.67	0.7	1.8	18.5	7.41	9.45	16
19x2.5 RE	1	1.78	0.7	1.8	19.5	7.41	9.45	14.4
19x2.5 RM	7	0.67	0.7	1.8	20.5	7.41	9.45	14.4
24x2.5 RE	1	1.78	0.7	1.8	22.5	7.41	9.45	12.8
24x2.5 RM	7	0.67	0.7	1.8	24	7.41	9.45	12.8
30x2.5 RE	1	1.78	0.7	1.8	24	7.41	9.45	12
30x2.5 RM	7	0.67	0.7	1.8	25.5	7.41	9.45	12
40x2.5 RE	1	1.78	0.7	1.9	27	7.41	9.45	11.4
40x2.5 RM	7	0.67	0.7	1.9	28.5	7.41	9.45	11.4
52x2.5 RE	1	1.78	0.7	2	31	7.41	9.45	10.7
52x2.5 RM	7	0.67	0.7	2	32.5	7.41	9.45	10.7
61x2.5 RE	1	1.78	0.7	2	33	7.41	9.45	9.3
61x2.5 RM	7	0.67	0.7	2.1	35	7.41	9.45	9.3

Multi Core XLPE Insulated Steel Tape Armored & PVC Sheathed (N2XYBY) 1.5 mm² According to IEC 60502 0.6 / 1 kV



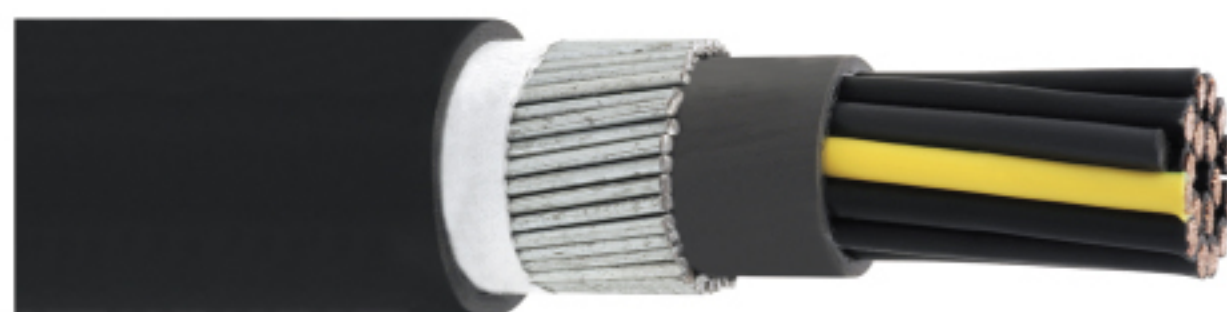
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω /km)	at 90°c (Ω /km)	
7x1.5RE	1	1.38	0.7	1.2	0.2	1.8	15.2	12.1	15.4	15.6
7x1.5RM	7	0.52	0.7	1.2	0.2	1.8	15.8	12.1	15.4	15.6
10x1.5RE	1	1.38	0.7	1.2	0.2	1.8	18	12.1	15.4	13.2
10x1.5RM	7	0.52	0.7	1.2	0.2	1.8	18.8	12.1	15.4	13.2
12x1.5 RE	1	1.38	0.7	1.2	0.2	1.8	18.4	12.1	15.4	12.6
12x1.5 RM	7	0.52	0.7	1.2	0.2	1.8	19.3	12.1	15.4	12.6
14x1.5 RE	1	1.38	0.7	1.2	0.2	1.8	19.1	12.1	15.4	12
14x1.5 RM	7	0.52	0.7	1.2	0.2	1.8	20	12.1	15.4	12
19x1.5 RE	1	1.38	0.7	1.2	0.2	1.8	20.7	12.1	15.4	10.8
19x1.5 RM	7	0.52	0.7	1.2	0.2	1.8	21.8	12.1	15.4	10.8
24x1.5 RE	1	1.38	0.7	1.2	0.2	1.8	23.5	12.1	15.4	9.6
24x1.5RM	7	0.52	0.7	1.2	0.2	1.8	24.8	12.1	15.4	9.6
30x1.5RE	1	1.38	0.7	1.2	0.2	1.8	24.6	12.1	15.4	9
30x1.5RM	7	0.52	0.7	1.2	0.2	1.8	26	12.1	15.4	9
40x1.5RE	1	1.38	0.7	1.2	0.2	1.8	27.1	12.1	15.4	8.4
40x1.5RM	7	0.52	0.7	1.2	0.2	1.9	28.9	12.1	15.4	8.4
52x1.5RE	1	1.38	0.7	1.2	0.2	2	30.6	12.1	15.4	8.1
52x1.5RM	7	0.52	0.7	1.2	0.2	2	32.4	12.1	15.4	8.1
61x1.5RE	1	1.38	0.7	1.2	0.2	2	32.3	12.1	15.4	7.2
61x1.5RM	7	0.52	0.7	1.2	0.2	2.1	34.4	12.1	15.4	7.2

Multi Core XLPE Insulated Steel Tape Armored & PVC Sheathed (N2XYBY) 2.5 mm² According to IEC 60502 0.6 / 1 kV



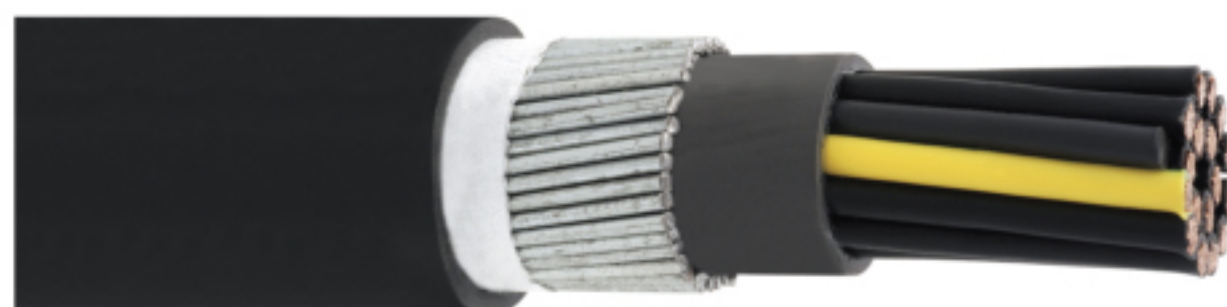
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor tape Thickness (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
7x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	16.4	7.41	9.45	21
7x2.5 RM	7	0.67	0.7	1.2	0.2	1.8	17.1	7.41	9.45	21
10x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	19.6	7.41	9.45	17.6
10x2.5 RM	7	0.67	0.7	1.2	0.2	1.8	20.5	7.41	9.45	17.6
12x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	20	7.41	9.45	16.8
12x2.5 RM	7	0.67	0.7	1.2	0.2	1.8	21	7.41	9.45	16.8
14x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	28	7.41	9.45	16
14x2.5 RM	7	0.67	0.7	1.2	0.2	1.8	21.8	7.41	9.45	16
19x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	22.7	7.41	9.45	14.4
19x2.5 RM	7	0.67	0.7	1.2	0.2	1.8	23.9	7.41	9.45	14.4
24x2.5 RE	1	1.78	0.7	1.2	0.2	1.8	25.9	7.41	9.45	12.8
24x2.5 RM	7	0.67	0.7	1.2	0.2	1.9	27.5	7.41	9.45	12.8
30x2.5 RE	1	1.78	0.7	1.2	0.2	1.9	27.4	7.41	9.45	12
30x2.5 RM	7	0.67	0.7	1.2	0.2	1.9	28.9	7.41	9.45	12
40x2.5 RE	1	1.78	0.7	1.2	0.2	2	30.5	7.41	9.45	11.4
40x2.5 RM	7	0.67	0.7	1.2	0.2	2	32.1	7.41	9.45	11.4
52x2.5 RE	1	1.78	0.7	1.2	0.2	2.1	34.2	7.41	9.45	10.7
52x2.5 RM	7	0.67	0.7	1.2	0.5	2.2	37.5	7.41	9.45	10.7
61x2.5 RE	1	1.78	0.7	1.2	0.5	2.2	37.5	7.41	9.45	9.3
61x2.5 RM	7	0.67	0.7	1.3	0.5	2.3	39.9	7.41	9.45	9.3

Multi Core XLPE Insulated Steel Wire Armored & PVC Sheathed (N2XYRY) 1.5 mm² According to IEC 60502 0.6/1kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
7x1.5RE	1	1.38	0.7	1.2	0.9	1.8	16.2	12.1	15.4	15.6
7x1.5RM	7	0.52	0.7	1.2	0.9	1.8	16.8	12.1	15.4	15.6
10x1.5RE	1	1.38	0.7	1.2	0.9	1.8	19	12.1	15.4	13.2
10x1.5RM	7	0.52	0.7	1.2	0.9	1.8	19.8	12.1	15.4	13.2
12x1.5 RE	1	1.38	0.7	1.2	0.9	1.8	19.4	12.1	15.4	12.6
12x1.5 RM	7	0.52	0.7	1.2	0.9	1.8	20.3	12.1	15.4	12.6
14x1.5 RE	1	1.38	0.7	1.2	0.9	1.8	20.1	12.1	15.4	12
14x1.5 RM	7	0.52	0.7	1.2	1.6	1.8	22.4	12.1	15.4	12
14x1.5 RE	1	1.38	0.7	1.2	1.6	1.8	23.1	12.1	15.4	10.8
19x1.5 RM	7	0.52	0.7	1.2	1.6	1.8	24.2	12.1	15.4	10.8
24x1.5 RE	1	1.38	0.7	1.2	1.6	1.8	25.9	12.1	15.4	9.6
24x1.5RM	7	0.52	0.7	1.2	1.6	1.9	27.4	12.1	15.4	9.6
30x1.5RE	1	1.38	0.7	1.2	1.6	1.9	27.2	12.1	15.4	9
30x1.5RM	7	0.52	0.7	1.2	1.6	1.9	28.6	12.1	15.4	9
40x1.5RE	1	1.38	0.7	1.2	1.6	2	29.9	12.1	15.4	8.4
40x1.5RM	7	0.52	0.7	1.2	1.6	2	31.5	12.1	15.4	8.4
52x1.5RE	1	1.38	0.7	1.2	2	2.1	34	12.1	15.4	8.1
52x1.5RM	7	0.52	0.7	1.2	2	2.1	35.8	12.1	15.4	8.1
61x1.5RE	1	1.38	0.7	1.2	2	2.1	35.7	12.1	15.4	7.2
61x1.5RM	7	0.52	0.7	1.2	2	2.2	37.8	12.1	15.4	7.2

Multi Core XLPE Insulated Steel Wire Armored & PVC Sheathed (N2XYRY) 2.5 mm² According to IEC 60502 0.6 / 1 kV



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Bedding Thickness (mm)	Armor Wire Diameter (mm)	Sheath Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance		Current Rating In Air (A)
	Number of Strands	Diameter of Strands (mm)						at 20°c (Ω/km)	at 90°c (Ω/km)	
7x2.5RE	1	1.78	0.7	1.2	0.9	1.8	17.4	7.41	9.45	21
7x2.5RM	7	0.67	0.7	1.2	0.9	1.8	18.1	7.41	9.45	21
10x2.5RE	1	1.78	0.7	1.2	0.9	1.8	20.4	7.41	9.45	17.6
10x2.5RM	7	0.67	0.7	1.2	1.6	1.8	22.9	7.41	9.45	17.6
12x2.5 RE	1	1.78	0.7	1.2	1.6	1.8	22.4	7.41	9.45	16.8
12x2.5 RM	7	0.67	0.7	1.2	1.6	1.8	23.4	7.41	9.45	16.8
14x2.5 RE	1	1.78	0.7	1.2	1.6	1.8	23.2	7.41	9.45	16
14x2.5 RM	7	0.67	0.7	1.2	1.6	1.8	24.3	7.41	9.45	16
19x2.5 RE	1	1.78	0.7	1.2	1.6	1.8	25.1	7.41	9.45	14.4
19x2.5 RM	7	0.67	0.7	1.2	1.6	1.8	26.3	7.41	9.45	14.4
24x2.5 RE	1	1.78	0.7	1.2	1.6	1.9	28.5	7.41	9.45	12.8
24x2.5RM	7	0.67	0.7	1.2	1.6	2	30.1	7.41	9.45	12.8
30x2.5RE	1	1.78	0.7	1.2	1.6	2	30	7.41	9.45	12
30x2.5RM	7	0.67	0.7	1.2	1.6	2	31.5	7.41	9.45	12
40x2.5RE	1	1.78	0.7	1.2	2	2.1	33.9	7.41	9.45	11.4
40x2.5RM	7	0.67	0.7	1.2	2	2.1	35.5	7.41	9.45	11.4
52x2.5RE	1	1.78	0.7	1.2	2	2.2	37.6	7.41	9.45	10.7
52x2.5RM	7	0.67	0.7	1.2	2	2.3	39.7	7.41	9.45	10.7
61x2.5RE	1	1.78	0.7	1.2	2	2.3	39.7	7.41	9.45	9.3
61x2.5RM	7	0.67	0.7	1.3	2	2.3	41.7	7.41	9.45	9.3

Solid and Stranded 0.5mm² up to 50 mm² Single Core PVC insulated, None sheathed Cable For General Purposes 450 / 750V



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Overall Diameter (mm)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (A)
	Number of Strands	Diameter of Strands (mm)			At 20°c	At 70°c		
1x0.5RE	1	0.8	0.6	2	36	43.1	12	100
1x0.5RM	7	0.3	0.6	2.1	36	43.1	12	100
1x0.75RE	1	0.97	0.6	2.2	24.5	29.3	15	100
1x0.75RM	7	0.37	0.6	2.3	24.5	29.3	15	100
1x1 RE	1	1.13	0.6	2.4	18.1	21.7	19	100
1x1 RM	7	0.43	0.6	2.5	18.1	21.7	19	100
1x1.5 RE	1	1.38	0.7	2.8	12.1	14.5	24	100
1x1.5 RM	7	0.52	0.7	3	12.1	14.5	24	100
1x2.5 RE	1	1.78	0.8	3.4	7.41	8.87	32	100
1x2.5 RM	7	0.67	0.8	3.6	7.41	8.87	32	100
1x4 RE	1	2.25	0.8	3.9	4.61	5.52	42	100
1x4 RM	7	0.85	0.8	4.2	4.61	5.52	42	100
1x6 RE	1	2.76	0.8	4.4	3.08	3.69	54	100
1x6 RM	7	1.04	0.8	4.8	3.08	3.69	54	100
1x10 RE	1	3.57	1	5.6	1.83	2.19	73	100
1x10 RM	7	1.35	1	6.1	1.83	2.19	73	100
1x16 RM	7	1.70	1	7.1	1.15	1.38	98	1000
1x25RM	7	2.14	1.2	8.8	0.727	0.87	129	1000
1x35 RM	7	2.52	1.2	10	0.524	0.627	158	1000
1x35RM	19	1.53	1.2	10.1	0.524	0.627	158	1000
1x50 RM	19	1.78	1.4	11.7	0.387	0.463	198	1000

**Single Core PVC insulated,
70mm² up to 800 mm²
None sheathed Cable For
General Purposes 450 / 750V**



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Overall Diameter (mm)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (A)
	Number of Strands	Diameter of Strands (mm)			At 20°c	At 70°c		
1x70 RM	19	2.14	1.4	13.5	0.268	0.321	245	1000
1x95RM	19	2.52	1.6	15.8	0.193	0.231	292	1000
1x120RM	37	2.03	1.6	17.4	0.153	0.183	344	1000
1x150RM	37	2.25	1.8	19.4	0.124	0.148	391	500
1x185 RM	37	2.52	2	21.5	0.0991	0.119	448	500
1x240 RM	61	2.25	2.2	24.7	0.0754	0.0902	528	500
1x300 RM	61	2.52	2.4	27.5	0.0601	0.0719	608	500
1x400 RM	61	2.85	2.6	30.9	0.0470	0.0562	775	500
1x500 RM	61	3.20	2.8	34.4	0.0366	0.0438	880	500
1x630 RM	91	2.97	2.8	38.3	0.0283	0.0338	986	500
1x800 RM	91	3.35	2.8	42.5	0.221	0.264	1063	500

Concentric Screen cable (NYCY) 1&2 Core PVC insulated & Sheathed According to IEC 60502 0.6/1 kV



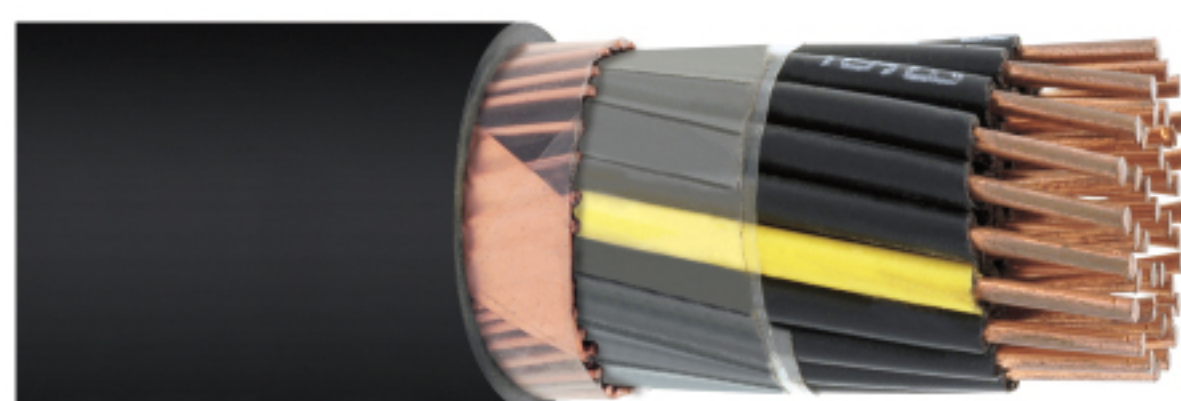
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω/km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
1x1.5+1.5	1.38x1	0.3x20	0.8	1.8	7.2	88	12.1	14.5	37	26	1000
1x2.5+2.5	1.78x1	0.4x20	0.8	1.8	8	115	7.41	8.87	45	33	1000
1x4+4	2.25x1	0.52x19	1	1.8	8.9	152	4.61	5.52	50	36	1000
1x6+6	2.76x1	0.60x20	1	1.8	10	198	3.08	3.69	62	46	1000
1x10+10	3.57x1	0.80x19	1	1.8	10.8	280	1.83	2.19	82	62	1000
1x16+16	1.70x7	1.13x16	1	1.8	13	422	1.15	1.38	105	83	1000
1x25+25	2.14x7	1.25x20	1.2	1.8	14.7	682	0.727	0.870	136	111	1000
1x35+35	2.52x7	1.2x30	1.2	1.8	15.8	835	0.524	0.627	163	136	1000
2x1.5+1.5	1.38x1	0.30x20	0.8	1.8	11.8	205	12.1	14.5	34	23	1000
2x2.5+2.5	1.78x1	0.40x20	0.8	1.8	13	266	7.41	8.87	42	30	1000
2x4+4	2.25x1	0.52x19	1	1.8	14.7	349	4.61	5.52	47	36	1000
2x6+6	2.76x1	0.60x20	1	1.8	16.4	438	3.08	3.69	58	41	1000
2x10+10	3.57x1	0.80x19	1	1.8	18	595	1.83	2.19	79	58	1000
2x16+16	1.70x7	0.80x30	1	1.8	21.7	891	1.15	1.38	100	80	1000
2x25+25	2.14x7	1.0x30	1.2	1.8	26	1383	0.727	0.870	132	105	500
2x35+35	2.52x7	1.2x30	1.2	1.9	28.5	1777	0.524	0.627	159	131	500

Concentric Screen cable (NYCY) 3&4 Core PVC insulated & Sheathed According to IEC 60502 0.6/1 kV



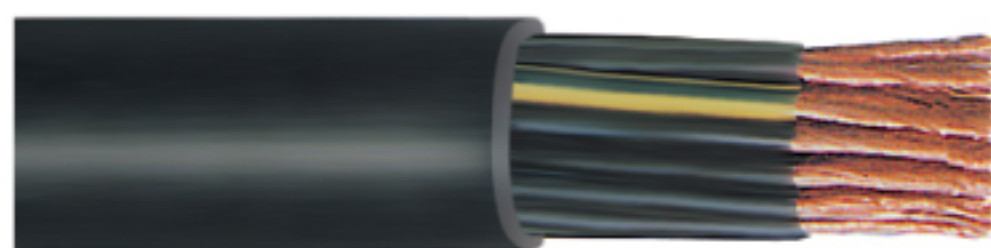
Nominal Cross Section	Conductor Specification	Concentric Conductor Specification	Insulation Thickness	Sheath Thickness	Overall Diameter	Weight Approx.	Conductor Resistance (Ω /km)		Current Rating		Standard Length
							At 20°C	At 70°C	In Ground	In Air	
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)			(A)	(A)	(m)
3x1.5+1.5	1.38x1	0.3x20	0.8	1.8	12.2	225	12.1	14.5	26	18.4	1000
3x2.5+2.5	1.78x1	0.4x20	0.8	1.8	13.5	295	7.41	8.87	34	24	1000
3x4+4	2.25x1	0.52x19	1	1.8	15.4	391	4.61	5.52	44	32	1000
3x6+6	2.76x1	0.60x20	1	1.8	17.1	497	3.08	3.69	56	41	1000
3x10+10	3.57x1	0.80x19	1	1.8	18.8	690	1.83	2.19	75	57	1000
3x16+16	1.70x7	0.80x30	1	1.8	13.5	1090	1.15	1.38	99	75	500
3x25+25	2.14x7	1.0x30	1.2	1.8	27.6	1621	0.727	0.870	129	101	500
3x35+35	2.52x7	1.2x30	1.2	1.8	30	2088	0.524	0.627	155	124	500
4x1.5+1.5	1.38x1	0.30x20	0.8	1.8	13	258	12.1	14.5	26	18.8	1000
4x2.5+2.5	1.78x1	0.40x20	0.8	1.8	14.4	343	7.41	8.87	34	25	1000
4x4+4	2.25x1	0.52x19	1	1.8	16.5	460	4.61	5.52	45	33	1000
4x6+6	2.76x1	0.60x20	1	1.8	18.3	589	3.08	3.69	56	42	1000
4x10+10	3.57x1	0.80x19	1	1.8	20.2	826	1.83	2.19	76	57	1000
4x16+16	1.70x7	0.80x30	1	1.8	25.4	1306	1.15	1.38	99	77	500
4x25+25	2.14x7	1.0x30	1.2	2	29.5	1958	0.727	0.870	129	103	500
4x35+35	2.52x7	1.20x30	1.2	2	32.9	2595	0.524	0.627	157	128	500

Concentric Screen cable (NYCY) Multi Core PVC insulated & Sheathed According to IEC 60502 0.6/1 kV



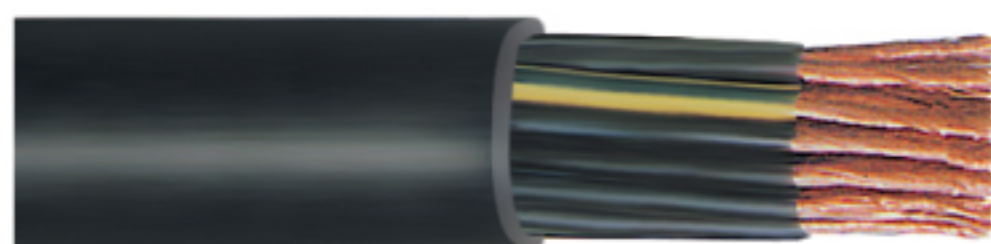
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating		Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c	In Ground (A)	In Air (A)	
7x1.5+2.5	1.38x1	0.40x20	0.8	1.8	15.2	363	12.1	14.5	15.6	12	1000
10x1.5+2.5	1.38x1	0.40x20	0.8	1.8	18.1	483	7.41	8.87	13	10.2	1000
12x1.5+2.5	1.38x1	0.40x20	0.8	1.8	18.6	540	4.61	5.52	12.4	9.7	1000
14x1.5+2.5	1.38x1	0.40x20	0.8	1.8	19.4	596	3.08	3.69	11.7	9.7	1000
19x1.5+4	1.38x1	0.52x19	0.8	1.8	21.1	747	1.83	2.19	10.4	8.3	1000
24x1.5+6	1.38x1	0.60x20	0.8	1.8	25.5	1004	1.15	1.38	9.1	7.4	500
30x1.5+6	1.38x1	0.60x20	0.8	1.8	26.7	1157	0.727	0.870	8.5	6.9	500
40x1.5+10	1.38x1	0.80x20	0.8	1.8	29.4	1439	0.524	0.627	7.8	6.5	500
7x2.5+2.5	1.78x1	0.40x20	0.8	1.8	16.4	460	12.1	14.5	20	16.3	1000
10x2.5+4	1.78x1	0.52x19	0.8	1.8	19.4	680	7.41	8.87	17	13.8	1000
12x2.5+4	1.78x1	0.52x19	0.8	1.8	21	750	4.61	5.52	16.2	13.1	1000
14x2.5+6	1.78x1	0.60x20	0.8	1.8	22.5	883	3.08	3.69	15.3	12.5	1000
19x2.5+6	1.78x1	0.60x20	0.8	1.8	24.5	1150	1.83	2.19	13.6	11.3	1000
24x2.5+10	1.78x1	0.65x30	0.8	1.9	28	1415	1.15	1.38	11.9	10	500
30x2.5+10	1.78x1	0.65x30	0.8	2	30	1645	0.727	0.870	11.1	9.4	500
40x2.5+10	1.78x1	0.65x30	0.8	2	34	2077	0.524	0.627	10.2	8.8	500

Flexible Control cable PVC insulated & Sheathed (SYSL) 0.5 mm² up to 0.75 mm² According to VDE 0281 300/500V



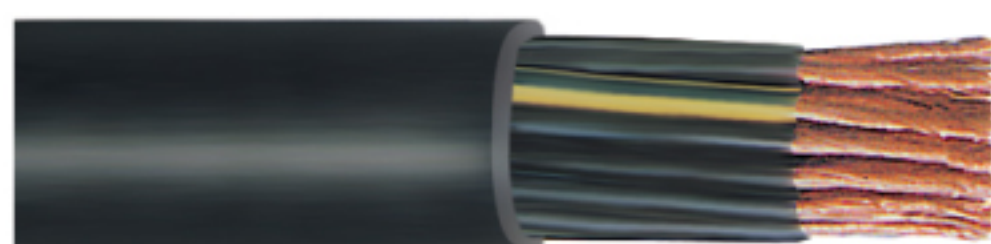
Nominal Cross Section	Conductor Specification		Insulation Thickness	Sheath Thickness	Overall Diameter	Weight Approx.	Conductor Resistance (Ω /km)		Current Rating	Standard Length
	Number of Strands	Diameter of Strands					At 20°C	At 70°C		
(mm ²)		(mm)	(mm)	(mm)	(mm)	(kg/km)			(A)	(m)
3x0.5	16	0.2	0.6	0.8	6.2	58	39	46.7	9.5	1000
4x0.5	16	0.2	0.6	0.8	6.7	70	39	46.7	9.5	1000
5x0.5	16	0.2	0.6	0.8	7.3	85	39	46.7	9.5	1000
7x0.5	16	0.2	0.6	1	8.3	110	39	46.7	9.5	1000
12x0.5	16	0.2	0.6	1.2	11.2	195	39	46.7	9.5	1000
18x0.5	16	0.2	0.6	1.2	12.9	266	39	46.7	9.5	1000
25x0.5	16	0.2	0.6	1.5	15.6	380	39	46.7	9.5	1000
34x0.5	16	0.2	0.6	1.8	18.3	524	39	46.7	9.5	1000
50x0.5	16	0.2	0.6	1.8	21.3	718	39	46.7	9.5	500
60x0.5	16	0.2	0.6	1.8	22.5	825	39	46.7	9.5	500
3x0.75	24	0.2	0.6	0.8	6.8	70	26	31.1	12	1000
4x0.75	24	0.2	0.6	0.8	7.4	85	26	31.1	12	1000
5x0.75	24	0.2	0.6	1	8.5	110	26	31.1	12	1000
7x0.75	24	0.2	0.6	1	9.2	135	26	31.1	12	1000
12x0.75	24	0.2	0.6	1.2	12.4	240	26	31.1	12	1000
18x0.75	24	0.2	0.6	1.2	14.4	333	26	31.1	12	1000
25x0.75	24	0.2	0.6	1.5	17.4	476	26	31.1	12	1000
34x0.75	24	0.2	0.6	1.8	20.4	655	26	31.1	12	1000
50x0.75	24	0.2	0.6	1.8	23.8	900	26	31.1	12	500
60x0.75	24	0.2	0.6	2.1	25.8	1077	26	31.1	12	500

Flexible Control cable PVC insulated & Sheathed (SYSL) 1 mm² According to VDE 0281 300/500V



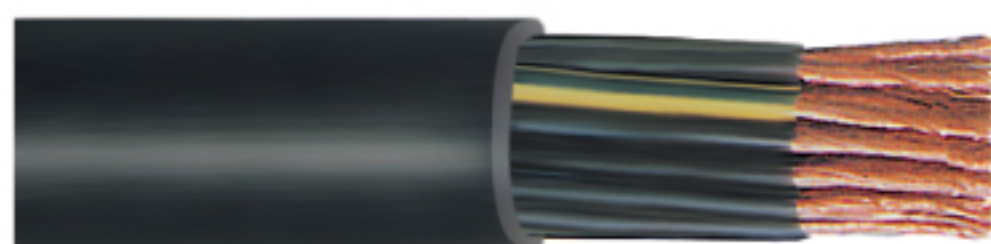
Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c		
2x1	32	0.2	0.6	0.7	6.4	64	19.5	23.3	15	1000
3x1	32	0.2	0.6	0.8	7	80	19.5	23.3	15	1000
4x1	32	0.2	0.6	0.8	7.6	96	19.5	23.3	15	1000
5x1	32	0.2	0.6	1	8.8	130	19.5	23.3	15	1000
7x1	32	0.2	0.6	1	9.5	156	19.5	23.3	15	1000
12x1	32	0.2	0.6	1.2	12.8	278	19.5	23.3	15	1000
18x1	32	0.2	0.6	1.5	15.5	410	19.5	23.3	15	1000
25x1	32	0.2	0.6	1.8	18.6	578	19.5	23.3	15	1000
34x1	32	0.2	0.6	1.8	21.1	760	19.5	23.3	15	500
50x1	32	0.2	0.6	2.1	25.2	1084	19.5	23.3	15	500
60x1	32	0.2	0.6	2.1	26.7	1255	19.5	23.3	15	500

Flexible Control cable PVC insulated & Sheathed (SYSL) 1.5 mm² According to VDE 0281 300/500V



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°C	At 70°C		
2x1.5	30	0.25	0.7	0.7	7.4	86	13.3	15.9	18	1000
3x1.5	30	0.25	0.7	0.8	8.1	108	13.3	15.9	18	1000
4x1.5	30	0.25	0.7	1	9.2	139	13.3	15.9	18	1000
5x1.5	30	0.25	0.7	1	10.1	173	13.3	15.9	18	1000
7x1.5	30	0.25	0.7	1.2	11.4	224	13.3	15.9	18	1000
12x1.5	30	0.25	0.7	1.2	14.9	380	13.3	15.9	18	1000
18x1.5	30	0.25	0.7	1.5	18	560	13.3	15.9	18	1000
25x1.5	30	0.25	0.7	1.8	21.6	790	13.3	15.9	18	500
34x1.5	30	0.25	0.7	1.8	24.6	1040	13.3	15.9	18	500
41x1.5	30	0.25	0.7	2.1	28.2	1340	13.3	15.9	18	500
50x1.5	30	0.25	0.7	2.1	29.4	1490	13.3	15.9	18	500
60x1.5	30	0.25	0.7	2.1	31.2	1730	13.3	15.9	18	500

**Flexible Control cable PVC insulated
& Sheathed (SYSL) 2.5 mm² up to 6 mm²
According to VDE 0281
300/500V**

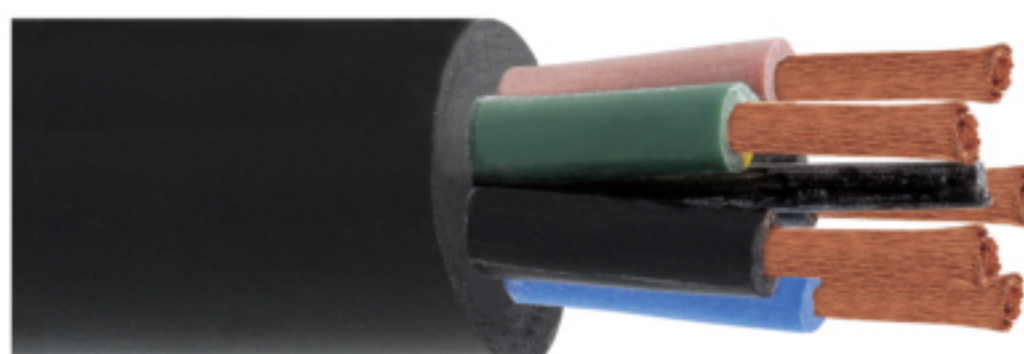


Nominal Cross Section	Conductor Specification		Insulation Thickness	Sheath Thickness	Overall Diameter	Weight Approx.	Conductor Resistance (Ω /km)		Current Rating	Standard Length
	Number of Strands	Diameter of Strands					At 20°c	At 70°c		
(mm ²)		(mm)	(mm)	(mm)	(mm)	(kg/km)			(A)	(m)
3x2.5	50	0.25	0.8	1.0	10.0	170	7.98	9.55	26	1000
4x2.5	50	0.25	0.8	1.2	11.3	220	7.98	9.55	26	1000
5x2.5	50	0.25	0.8	1.2	12.4	280	7.98	9.55	26	1000
7x2.5	50	0.25	0.8	1.2	13.5	335	7.98	9.55	26	1000
12x2.5	50	0.25	0.8	1.5	18.4	602	7.98	9.55	26	1000
14x2.5	50	0.25	0.8	1.8	19.9	695	7.98	9.55	26	1000
18x2.5	50	0.25	0.8	1.8	22.1	875	7.98	9.55	26	500
4x4	56	0.3	0.8	1.2	12.5	300	4.95	5.92	34	1000
5x4	56	0.3	0.8	1.2	13.8	370	4.95	5.92	34	1000
7x4	56	0.3	0.8	1.2	15	470	4.95	5.92	34	1000
4x6	84	0.3	0.8	1.5	15	450	3.30	3.95	44	1000
5x6	84	0.3	0.8	1.5	16.5	550	3.30	3.95	44	1000
7x6	84	0.3	0.8	1.8	18.6	720	3.30	3.95	44	1000

Flexible cable PVC insulated & Sheathed

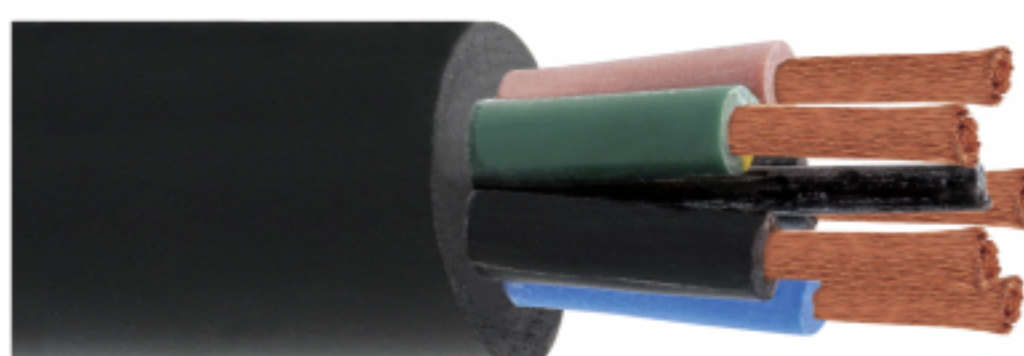
0.75 mm² up to 2.5 mm²

According to VDE 0281



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c		
2x0.75	24	0.20	0.6	0.8	6.4	60	26.0	31.1	6	100
2x1	32	0.20	0.6	0.8	6.6	67	19.5	23.3	10	100
2x1.5	30	0.25	0.7	0.8	7.6	90	13.3	15.9	16	100
2x2.5	50	0.25	0.8	1.0	9.4	140	7.98	9.55	25	1000
3x0.75	24	0.20	0.6	0.8	6.8	70	26.0	31.1	6	100
3x1	32	0.20	0.6	0.8	7.0	80	19.5	23.3	10	100
3x1.5	30	0.25	0.7	0.9	8.3	115	13.3	15.9	16	1000
3x2.5	50	0.25	0.8	1.1	10.2	180	7.98	9.55	25	1000
4x0.75	24	0.32	0.6	0.8	7.2	85	26.0	31.1	6	1000
4x1	32	0.20	0.6	0.9	7.9	105	19.5	23.3	10	1000
4x1.5	30	0.25	0.7	1.0	9.3	145	13.3	15.9	16	1000
4x2.5	50	0.25	0.8	1.1	11.2	220	7.98	9.55	20	1000
5x0.75	24	0.20	0.6	0.9	8.3	105	26.0	31.1	6	1000
5x1	32	0.20	0.6	0.9	8.6	120	19.5	23.3	10	1000
5x1.5	30	0.25	0.7	1.1	10.3	190	13.3	15.9	16	1000
5x2.5	50	0.25	0.8	1.2	12.4	260	7.98	9.55	20	1000

Flexible cable PVC insulated & Sheathed 4mm² up to 70mm² Core According to VDE 0281



Nominal Cross Section	Conductor Specification		Insulation Thickness	Sheath Thickness	Overall Diameter	Weight Approx.	Conductor Resistance (Ω /km)		Current Rating	Standard Length
	Number of Strands	Diameter of Strands					At 20°c	At 70°c		
(mm ²)		(mm)	(mm)	(mm)	(mm)	(kg/km)			(A)	(m)
2x4	56	0.3	0.8	1.1	10.6	191	4.95	5.92	34	1000
2x6	84	0.3	0.8	1.2	12.0	258	3.30	3.95	43	1000
2x10	77	0.4	1.0	1.4	16.4	455	1.91	2.29	58	1000
2x16	126	0.4	1.0	1.8	19.4	660	1.21	1.45	78	1000
2x25	196	0.4	1.2	2.0	24.0	1020	0.78	0.933	103	500
2x35	280	0.4	1.2	2.0	26.8	1320	0.554	0.633	126	500
3x4	56	0.3	0.8	1.2	11.4	241	4.95	5.92	34	1000
3x6	84	0.3	0.8	1.2	12.8	323	3.30	3.95	43	1000
3x10	77	0.4	1.0	1.8	18.2	577	1.91	2.29	58	1000
3x16	126	0.4	1.0	2.7	22.6	854	1.21	1.45	78	500
3x25	196	0.4	1.2	3.0	27.5	1425	0.78	0.933	103	500
3x35	280	0.4	1.2	3.0	30.6	1816	0.554	0.633	126	500
3x50	380	0.4	1.4	3.3	35.2	2740	0.386	0.462	158	500
3x70	342	0.5	1.4	4.0	40.5	3300	0.272	0.325	198	500

Flexible cable PVC insulated & Sheathed

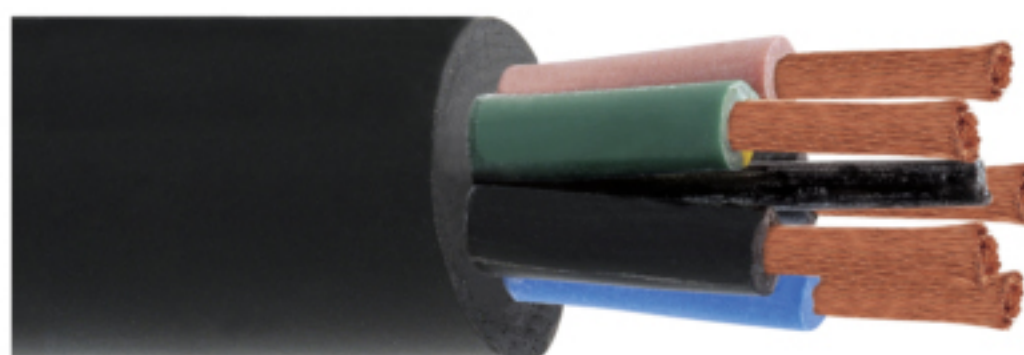
3¹/₂ Core

According to VDE 0281



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c		
3x25/16	196/126	0.4/0.4	1.2/1.0	3.0	29	1548	0.78	0.933	90	500
3x35/16	280/126	0.4/0.4	1.2/1.2	3.0	32	1948	0.544	0.663	111	500
3x50/25	380/196	0.4/0.4	1.4/1.2	3.5	36	2710	0.386	0.462	139	500
3x70/35	342/280	0.5/0.5	1.4/1.2	4.0	44	4008	0.272	0.325	172	500
3x95/50	475/380	0.5/0.5	1.6/1.4	4.0	51.5	5318	0.206	0.246	205	500
3x120/70	592/342	0.5/0.5	1.6/1.4	4.0	55.5	6442	0.161	0.193	241	500

Flexible cable PVC insulated & Sheathed 4 & 5 Core According to VDE 0281



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)					At 20°c	At 70°c		
4x4	56	0.3	0.8	1.2	12.5	295	4.95	5.92	30	1000
4x6	84	0.3	0.8	1.2	14.0	405	3.30	3.95	38	1000
4x10	77	0.4	1.0	0.8	19.6	730	1.91	2.29	51	1000
4x16	126	0.4	1.0	3.0	24.5	1149	1.21	1.45	69	500
4x25	196	0.4	1.2	3.0	29.8	1787	0.78	0.933	90	500
4x35	280	0.4	1.2	3.3	34.0	2342	0.554	0.633	111	500
4x50	380	0.4	1.4	3.3	38.6	3111	0.386	0.462	139	500
4x70	342	0.5	1.4	4	44.3	4280	0.272	0.325	172	500
4x4	56	0.3	0.8	1.8	15.0	414	4.95	5.92	30	1000
5x6	84	0.3	0.8	1.8	16.6	558	3.30	3.95	38	1000
5x10	77	0.4	1.0	1.8	22.0	913	1.91	2.29	51	500
5x16	126	0.4	1.0	3.0	27.4	1420	1.21	1.45	69	500
5x25	196	0.4	1.2	3.0	33.0	2134	0.78	0.933	90	500
5x35	280	0.4	1.2	3.3	37.4	2740	0.554	0.633	111	500
5x50	380	0.4	1.4	4	43.9	3944	0.386	0.462	139	500

Flexible Wire 300/500V

According to VDE 0281,NYAF,HO5V-K,HO7V-K IEC 60227-6 AND IEC 60227-2



Nominal Cross Section	Conductor Specification		Insulation Thickness	Overall Diameter	Weight Approx.	Conductor Resistance (Ω /km)		Current Rating	Standard Length
	Number of Strands	Diameter of Strands				At 20°c	At 70°c		
(mm ²)		(mm)	(mm)	(mm)	(kg/km)			(A)	(m)
1x0.5	16	0.2	0.6	2.1	9	39	46.7	12	100
1x0.75	24	0.2	0.6	2.4	12	26	31.1	15	100
1x1	32	0.2	0.6	2.5	15	19.5	23.3	19	100
1x1.5	30	0.25	0.7	3	21	13.3	15.9	24	100
1x2.5	50	0.25	0.8	3.7	34	7.98	9.55	32	100
1x4	56	0.3	0.8	4.2	50	4.95	5.92	42	100
1x6	84	0.3	0.8	5	75	3.3	3.95	54	100
1x10	77	0.4	1	6.8	120	1.91	2.29	73	100
1x16	126	0.4	1	8	180	1.21	1.45	98	100
1x25	196	0.4	1.2	9.8	280	0.780	0.933	129	100
1x35	280	0.4	1.2	11.4	380	0.554	0.663	158	100
1x50	380	0.4	1.4	12.8	540	0.386	0.462	198	1000
1x70	342	0.5	1.4	15.3	740	0.272	0.325	245	1000
1x95	475	0.5	1.6	18.2	1000	0.206	0.246	292	1000
1x120	592	0.5	1.6	19.7	1240	0.161	0.193	344	500
1x150	740	0.5	1.8	21.1	1500	0.129	0.154	391	500
1x185	925	0.5	2	25	1905	0.106	0.1250	448	500
1x240	1220	0.5	2.2	27.8	2460	0.0801	0.0963	528	500
1x300	1525	0.5	2.4	31.8	3040	0.0641	0.0770	608	500

Flat Flexible Control Cable

PVC insulated & Sheathed 300/500V

According to VDE0281, ISIRI(607), H05VV-F



Nominal Cross Section (mm ²)	Conductor Specification		Insulation Thickness (mm)	Distance Between Groups	Sheath Thickness (mm)	Overall Diameter (mm)	Weight Approx. (kg/km)	Conductor Resistance (Ω /km)		Current Rating (A)	Standard Length (m)
	Number of Strands	Diameter of Strands (mm)						At 20°C	At 70°C		
3x0.75	24	0.20	0.6	-	1.5x0.9	10.2x4.2	82	26.0	31.1	12	1000
4x0.75	24	0.20	0.6	1	1.5x0.9	13.6x4.2	110	26.0	31.1	12	1000
5x0.75	24	0.20	0.6	1	1.5x0.9	17.0x4.2	135	26.0	31.1	12	1000
6x0.75	24	0.20	0.6	1	1.5x0.9	18.4x4.2	152	26.0	31.1	12	1000
9x0.75	24	0.20	0.6	1	1.5x0.9	26.6x4.2	220	26.0	31.1	12	1000
12x0.75	24	0.20	0.6	1	1.5x0.9	33.8x4.2	280	26.0	31.1	12	1000
16x0.75	24	0.20	0.6	1	1.5x0.9	44.4x4.2	370	26.0	31.1	12	1000
18x0.75	24	0.20	0.6	1	1.5x0.9	49.2x4.2	410	26.0	31.1	12	1000
20x0.75	24	0.20	0.6	1	1.5x0.9	55.0x4.2	455	26.0	31.1	12	1000
24x0.75	24	0.20	0.6	1	1.5x0.9	65.6x4.2	545	26.0	31.1	12	1000
3x1	32	0.20	0.6	-	1.5x0.9	10.5x4.3	92	19.5	23.3	15	1000
4x1	32	0.20	0.6	1	1.5x0.9	14.0x4.3	123	19.5	23.3	15	1000
5x1	32	0.20	0.6	1	1.5x0.9	17.5x4.3	154	19.5	23.3	15	1000
6x1	32	0.20	0.6	1	1.5x0.9	19.0x4.3	170	19.5	23.3	15	1000
9x1	32	0.20	0.6	1	1.5x0.9	27.5x4.3	248	19.5	23.3	15	1000
12x1	32	0.20	0.6	1	1.5x0.9	35.0x4.3	320	19.5	23.3	15	1000
16x1	32	0.20	0.6	1	1.5x0.9	46.0x4.3	422	19.5	23.3	15	1000
18x1	32	0.20	0.6	1	1.5x0.9	51.0x4.3	470	19.5	23.3	15	1000
20x1	32	0.20	0.6	1	1.5x0.9	57.0x4.3	525	19.5	23.3	15	1000

Self Supporting Telecommunication Cable PE Insulated & Sheathed (Screened) According to Standards TCI & VDE 0816 A-2Y(L)2Y-T



Conductor Diameter	Conductor Resistance Max.	Mutual Capacitance at 1000HZ Max.	Capacitance unbalance at 1000HZ Max.	Insulation resistance Min.	Test Voltage Wire to Wire (In 3 Sec)	Operating Voltage Max.	Attenuation At 1500 KHZ Max.	Crosstalk RMS
(mm)	(Ω /km)	(nF/km)	(pF/km)	(G Ω /km)	(kVDC)	(V)	(db/km)	(db/km)
0.4	147	52	145	20	2.4	150	31.2	68
0.6	65	52	145	20	3.5	150	21	68
0.8	36	52	145	20	5	150	15.43	68

* Test Voltage (Wire to Shield) = 10 kVDC (In 3 Sec.)

Telecommunication Cable, PE Insulated & Sheathed (Screened) According to Standards TCI & VDE 0816 A-2Y(St)2Y & A-2Y(St)2YBY



Conductor Diameter	Conductor Resistance Max.	Mutual Capacitance at 1000HZ Max.	Capacitance unbalance at 1000HZ Max.	Insulation resistance Min.	Test Voltage Wire to Wire (In 3 Sec)	Operating Voltage Max.	Attenuation At 1500 KHZ Max.	Crosstalk RMS
(mm)	(Ω /km)	(nF/km)	(pF/km)	(G Ω /km)	(kVDC)	(V)	(db/km)	(db/km)
0.4	147	52	145	20	2.4	150	31.2	68
0.6	65	52	145	20	3.5	150	21	68
0.8	36	52	145	20	5	150	15.43	68

* Test Voltage (Wire to Shield) = 15 kV DC (In 3 Sec.)

**Switch Board Cable (MDF) PVC Insulated &
Sheathed According to Standards
TCI & VDE 0813
S-Y(St)Y (vzn) or MDF**



Conductor Diameter	Conductor Resistance Max.	Mutual Capacitance at 1000HZ Max.	Capacitance unbalance at 1000HZ Max.	Insulation resistance Min.	Test Voltage (In 2 min.)	Operating Voltage Max.
(mm)	(Ω /km)	(nF/km)	(pF/500m)	(M Ω /km)	(kVDC)	(V)
0.4	147	100	300	500	1.2	200
0.6	65	100	300	500	1.2	200

Installation Cable (Screened) PVC Insulated & Sheathed According to Standards TCI & VDE 0815 J-Y(St)Y



Conductor Diameter	Conductor Resistance Max.	Mutual Capacitance at 1000HZ Max.	Capacitance unbalance at 1000HZ Max.	Insulation resistance Min.	Test Voltage (In 2 min.)	Operating Voltage Max.
(mm)	(Ω /km)	(nF/km)	(pF/500m)	(M Ω /km)	(kVDC)	(V)
0.4	147	100	300	500	1.2	200
0.6	65	100	300	500	1.2	200
0.8	36	100	300	500	1.2	200

Specification for one Pair SelfSupporting drop wire According to Standards TCI



Conductor Diameter	Galvanized Steel Wire Diameter	Tensile Strength	Conductor Resistance Max.	Mutual Capacitance Max.	Insulation resistance	Test Voltage (In 5 Sec)
(mm)	(mm)	(N/mm ²)	(Ω/km)	(nF/km)	(GΩ/km)	(kV DC)
0.6	0.7	1400	63	78	5	36

Application Codes

N	Norm type
A	Aluminum conductors
Y	PVC insulation
2Y	PE insulation
2X	XLPE insulation
C	Concentric conductor of copper wires & copper tape applied helically
S	screen of copper wires & copper tape applied helically
SE	screen of copper wires & copper tape over each individual core, applied helically
(F)	Longitudinal watertight screen region
(FL)	Longitudinal watertight screen region & polymer laminated sheath
F	Flat steel wire armor
G	helix of galvanized steel tape
B	Double steel tape armor
R	Round steel wire armor
T	supporting strand
Y	PVC sheath
2Y	PE sheath
H	Halogen free sheath, flame retardant
(ST)	Aluminum foil & polyester tape screen
(L)	Laminated copolymer screen
A	Outdoor cable
J	Indoor cable
S	Switch board

Core Color Identification of Low Voltage Cables

Number of Cores	Core Coloring	
	With protective conductor - J	Without protective conductor -O
1	Black	Black
2	Green/Yellow-Black	Black-Light blue
3	Green/Yellow-Black-Light blue	Black-Light blue-Brown
4	Green/Yellow-Black-Light blue-Brown	Black-Light blue-Brown-Black
5	Green/Yellow-Black-Light blue-Brown-Black	Black-Light blue-Brown-Black-Black
More than 5	Green/Yellow,all other cores Black with White numbers	Black with White numbers

or as your request.

Color of sheaths

For voltage rating of 0.6/1 the outer sheath is black . or as your request.

