



JEMBO CABLE
Together We Grow

ISO 9001
QUALITY SYSTEM

ISO 14001
ENVIRONMENT SYSTEM

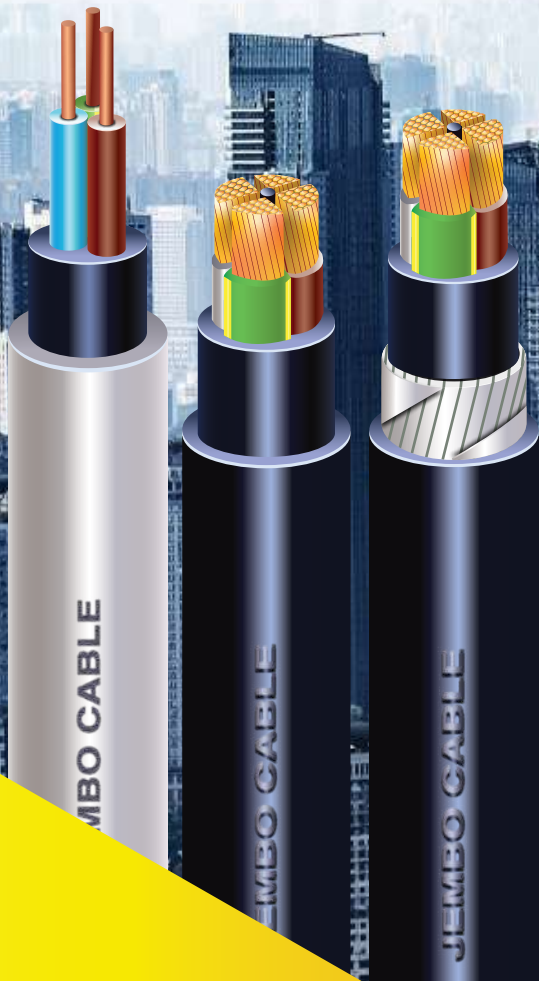
ISO 45001
HEALTH & SAFETY SYSTEM

ISO 50001
ENERGY SYSTEM

SMK3
PP NO. 50/2012

CATALOGUE **LOW VOLTAGE CABLE**

WWW.JEMBO.CO.ID





ABOUT US

PT Jembo Cable Company Tbk, founded in April 1973, started by producing Low Voltage electrical cables - copper conductors. The company continued to add product varieties such as low voltage cables - aluminum conductors, medium voltage cables, telephone cables and fiber optic cables to its product range. This allowed them to expand to different markets such as housing, building, infrastructure, industrial, oil and gas, mining, offshore and shipboard, and lighting sectors for airports. The cables the company produce have received certifications from leading certification institutions and also certification for Indonesian Local Content Level (TKDN).

In 1992, the company listed its shares on the Jakarta Stock Exchange, which is now known as the Indonesian Stock Exchange and entered into a technical cooperation agreement with Fujikura Ltd., one of the leading cable companies from Japan.

PT Jembo Cable Company Tbk, continues to innovate to meet customer needs. For instance, PT Jembo Cable Company pioneered the production of fiber optic cables in Indonesia in 1993. The company also pioneered metal corrugated armored cables — oil and mining specialized cables — in Indonesia in 2015, which now have been used by multinational mining companies such as PT Chevron Pacific Indonesia (now PT. Pertamina Hulu Rokan), PT Freeport Indonesia, Conoco Phillips (now PT. Medco Energi Internasional Tbk) and others.

Vision

To become the leading and most trusted cable manufacturer in Indonesia

Mission

Developing a business that provides the best benefits for stakeholders

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NYA (CU/PVC) or BV

Copper Conductor, PVC Insulated

Specification:

SNI 04-6629.3-2006.

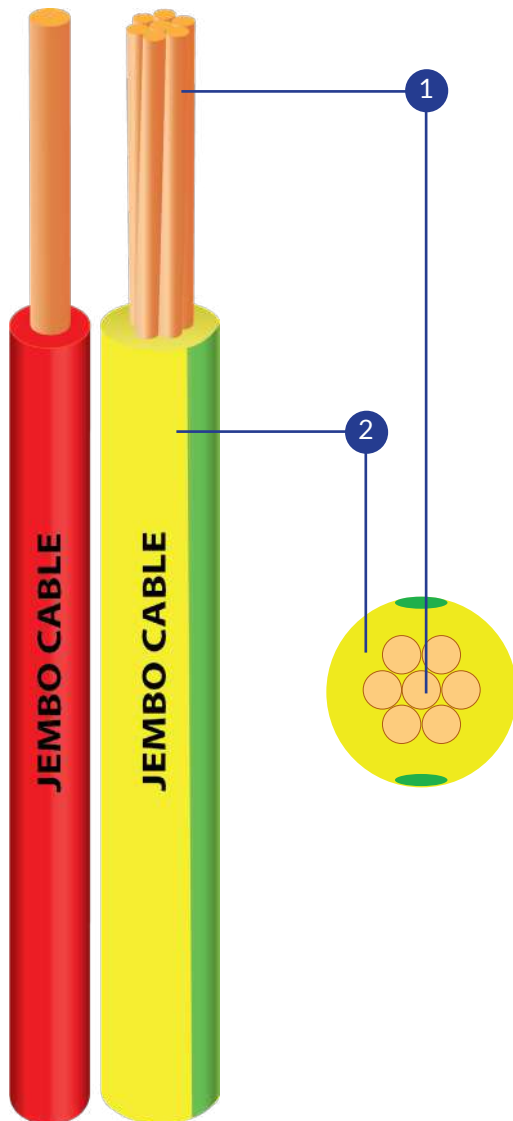
IEC 60227-3 IEC 01

Other specifications are available on request

Rated Voltage : 450/750 Volt

Application:

Permanent installation in conduit or exposed wiring in dry location, also as house installation cables, grounding cables and as connecting cables in distribution cabinets (panels)



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC

Identification of Cores:

Yellow with Green Stripe (Y/G)
Yellow
Black
Blue
Red

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYA (CU/PVC) or BV

450/750 V : Copper Conductor, PVC Insulated

Conductor			Insulation		Approx. Weight of Cable	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Nom. Thickness	Approx. Diameter of Cable			
mm ²	-	-	mm	mm	kg/km	m	-
1.5	re / rm	1/7	0.7	2.8 & 3.0	20	100	Coil
2.5	re / rm	1/7	0.8	3.4 & 3.6	30	100	Coil
4	re / rm	1/7	0.8	3.8 & 4.1	45	100	Coil
6	re / rm	1/7	0.8	4.3 & 4.7	63	100	Coil
10	re / rm	1/7	1.0	5.5 & 6.0	106	100	Coil
16	rm	7	1.0	7.0	169	1000	Drum
25	rm	7	1.2	8.7	266	1000	Drum
35	rm	7	1.2	9.8	358	1000	Drum
50	rm	19	1.4	11.5	480	1000	Drum
70	rm	19	1.4	13.3	675	1000	Drum
95	rm	19	1.6	15.5	931	1000	Drum
120	rm	37	1.6	17.1	1153	1000	Drum
150	rm	37	1.8	19.0	1425	1000	Drum
185	rm	37	2.0	21.3	1781	1000	Drum
240	rm	61	2.2	24.2	2338	1000	Drum
300	rm	61	2.4	27.0	2916	1000	Drum
400	rm	61	2.6	30.4	3734	1000	Drum

ELECTRICAL DATA

Conductor			Current Carrying Capacity at 30°C		Short Circuit Current at 1 Sec	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Min. Insulation Resistance at 70°C	In Pipe	In Air		
mm ²	Ohm/km	M.Ohm.km	Ampere		kA	kV/5 min
1.5	12.1	0.011	15	24	0.17	2.5
2.5	7.41	0.010	20	32	0.27	2.5
4	4.61	0.0085	25	42	0.44	2.5
6	3.08	0.0070	33	54	0.65	2.5
10	1.83	0.0070	45	73	1.10	2.5
16	1.15	0.0050	61	98	1.75	2.5
25	0.727	0.0050	83	129	2.76	2.5
35	0.524	0.0043	103	158	3.83	2.5
50	0.387	0.0043	132	198	5.19	2.5
70	0.268	0.0035	165	245	7.49	2.5
95	0.193	0.0035	197	292	10.41	2.5
120	0.153	0.0032	235	344	13.13	2.5
150	0.124	0.0032	-	391	16.20	2.5
185	0.0991	0.0032	-	448	20.27	2.5
240	0.0754	0.0032	-	528	26.64	2.5
300	0.0601	0.0030	-	608	33.42	2.5
400	0.0470	0.0028	-	726	42.74	2.5

* Current Carrying Capacity refers to SNI IEC 0225-5-52:2020

N2XA

Copper Conductor, XLPE Insulated

Building Cable

Specification:

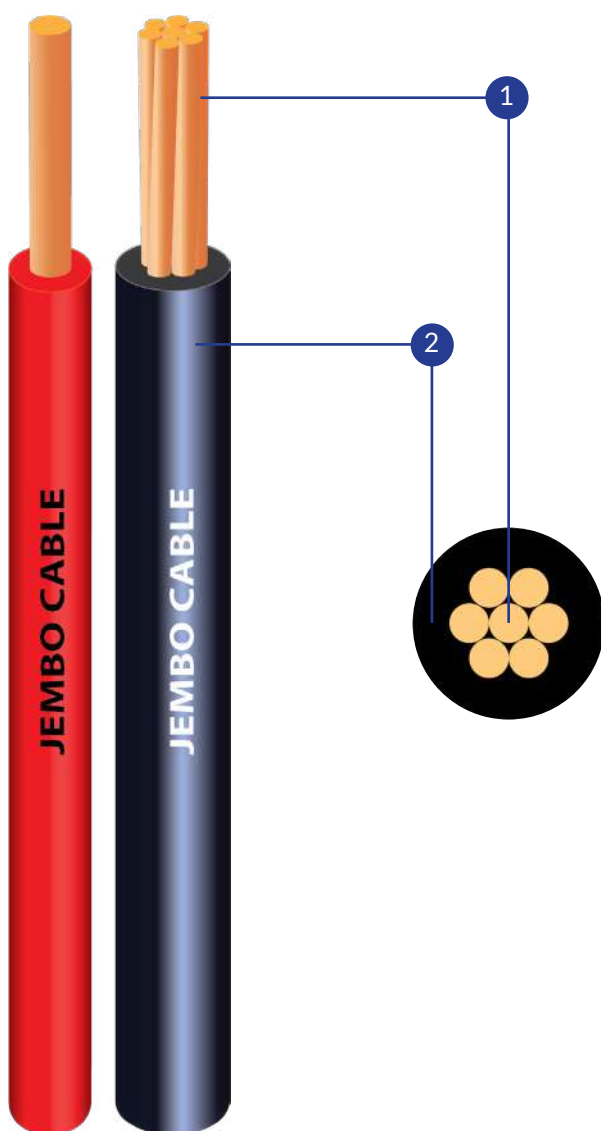
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

For electric power circuit, industry and power station. Indoors, outdoors and buried in the ground inside conduits and where mechanical protection is required or for higher tensile stresses during installation and operation.



Construction:

- 1. Conductor : Annealed Copper Wire
- 2. Insulation : Extruded XLPE

Identification of Cores:

Green with Yellow stripe (G/Y)
Yellow
Black
Blue
Red

Other colours are available on request

0.6/1 (1.2) kV : Copper Conductor, XLPE Insulated

Conductor			Insulation		Approx. Weight of Cable	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Nom. Thickness	Approx. Diameter of Cable			
mm ²	-	-	mm	mm	kg/km	m	-
1.5	re / rm	1 / 7	0.7	2.9 & 3.1	17	100	Coil
2.5	re / rm	1 / 7	0.7	3.3 & 3.5	26	100	Coil
4	re / rm	1 / 7	0.7	3.7 & 4.0	40	100	Coil
6	re / rm	1 / 7	0.7	4.2 & 4.6	57	100	Coil
10	re / rm	1 / 7	0.7	5.0 & 5.5	98	100	Coil
16	rm	7	0.7	6.6	152	1000	Drum
25	rm	7	0.9	8.3	241	1000	Drum
35	rm	7	0.9	9.4	330	1000	Drum
50	rm	19	1.0	10.9	441	1000	Drum
70	rm	19	1.1	12.9	633	1000	Drum
95	rm	19	1.1	14.7	867	1000	Drum
120	rm	37	1.2	16.5	1089	1000	Drum
150	rm	37	1.4	18.4	1347	1000	Drum
185	rm	37	1.6	20.7	1687	1000	Drum
240	rm	61	1.7	23.4	2214	1000	Drum
300	rm	61	1.8	26.0	2761	1000	Drum
400	rm	61	2.0	29.4	3548	1000	Drum
500	rm	61	2.2	33.1	4545	1000	Drum

ELECTRICAL DATA

Conductor			Current Carrying Capacity at 30°C		Short Circuit Current at 1 Sec	AC Voltage Test
Nom. Cross Section Area	Max. Dc Resistance at 20°C	Min. Insulation Resistance at 20°C	In Ground	In Air		
mm ²	Ohm/km	M. Ohm.km	Ampere		kA	kV/5 min
1.5	12.1	2500	33	40	0.20	3.5
2.5	7.41	2100	40	54	0.33	3.5
4	4.61	1800	53	73	0.54	3.5
6	3.08	1500	67	88	0.81	3.5
10	1.83	1200	91	119	1.36	3.5
16	1.15	1100	123	157	2.16	3.5
25	0.727	1000	174	205	3.41	3.5
35	0.524	1000	202	246	4.73	3.5
50	0.387	900	245	294	6.41	3.5
70	0.268	900	308	358	9.25	3.5
95	0.193	800	379	432	12.85	3.5
120	0.153	800	441	494	16.21	3.5
150	0.124	800	512	555	20.00	3.5
185	0.0991	800	589	632	25.03	3.5
240	0.0754	700	698	735	32.89	3.5
300	0.0601	700	810	838	41.27	3.5
400	0.0470	700	948	960	52.77	3.5
500	0.0366	700	1005	1097	67.76	3.5

NYM (CU/PVC/PVC)

Copper Conductor, PVC Insulated, PVC Sheathed

Building Cable

Specification:

SNI 04-2699-1999. IEC 60227-4 IEC 10

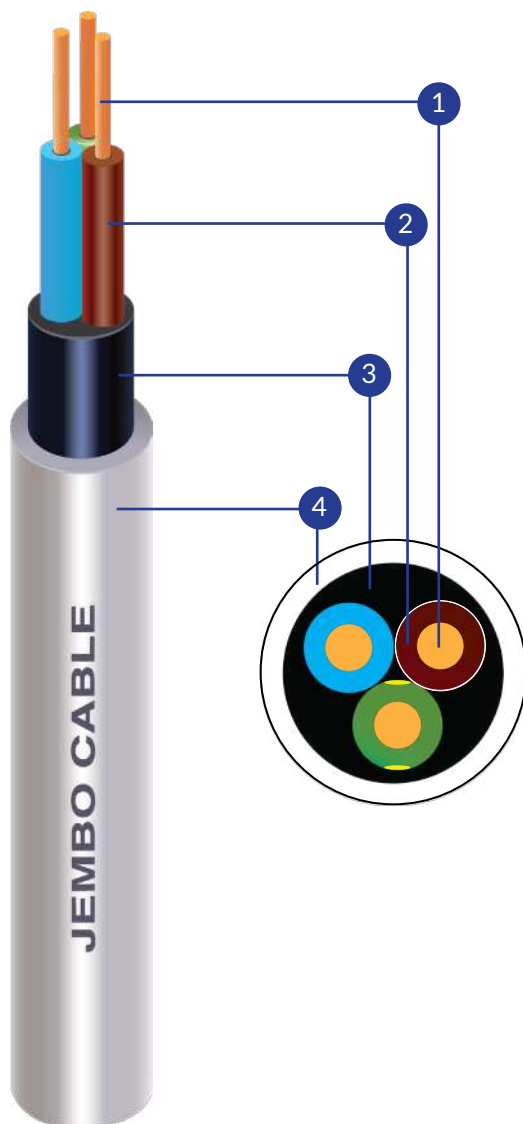
SPLN 42-2:1992

Other specifications are available on request

Rated Voltage : 300/500 Volt

Application:

Permanent installation for power circuit, indoor or outdoor lay in rack cable tray, in conduit under plester or exposed installation in dry location, where not sustaining mechanical stress or damage or in duct.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black Color)
4. Outer Sheath : Extruded PVC (White Color)

Identification of Cores:

- Twin-Cores : Blue, Black
- Three-Cores : System I
Green with yellow stripe (G/Y),
Blue, Brown
System O
Brown, Black, Grey
- Four-Cores : System I
Green with yellow stripe (G/Y),
Brown, Black, Grey
System O
Blue, Brown, Black, Grey
- Five-Cores : Green with yellow stripe (G/Y),
Blue, Brown, Black, Grey

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYM (CU/PVC/PVC)

300/500 V : Copper Conductor, PVC Insulated, PVC Sheathed

Conductor			Nom Thickness		Approx Diameter of Cable	Approx. Weight of Cable	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm ²	-	-	mm	mm	mm	kg/km	m	-
2 CORE								
1.5	re	1	0.7	1.2	9.0	113	100	Coil
2.5	re	1	0.8	1.2	10.2	153	100	Coil
4	re	1	0.8	1.2	11.0	194	100	Coil
6	re	1	0.8	1.2	12.0	248	100	Coil
10	re	1	1.0	1.2	14.8	392	100	Coil
16	rm	7	1.0	1.2	17.8	589	100	Coil
25	rm	7	1.2	1.2	21.6	894	1000	Drum
35	rm	7	1.2	1.2	24.2	1170	1000	Drum
3 CORE								
1.5	re	1	0.7	1.2	9.4	133	100	Coil
2.5	re	1	0.8	1.2	10.7	183	100	Coil
4	re	1	0.8	1.2	11.6	238	100	Coil
6	re	1	0.8	1.2	12.7	309	100	Coil
10	re	1	1.0	1.2	15.7	494	1000	Coil
16	rm	7	1.0	1.2	19.3	766	1000	Coil
25	rm	7	1.2	1.2	23.0	1143	1000	Drum
35	rm	7	1.2	1.2	25.8	1507	1000	Drum

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

ELECTRICAL DATA

Conductor			Current Carrying Capacity at 30°C in Air	Short Circuit Current at 1 sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Min. Insulation Resistance at 70°C			
mm ²	Ohm/km	M. Ohm.km	A	kA	kV/5 min
2 CORE					
1.5	12.1	0.011	18	0.17	2.0
2.5	7.41	0.010	26	0.27	2.0
4	4.61	0.0085	34	0.44	2.0
6	3.08	0.0700	44	0.65	2.0
10	1.83	0.0070	61	1.10	2.0
16	1.15	0.0052	82	1.75	2.0
25	0.727	0.0050	108	2.76	2.0
35	0.524	0.0044	135	3.83	2.0
3 CORE					
1.5	12.1	0.011	18	0.17	2.0
2.5	7.41	0.010	26	0.27	2.0
4	4.61	0.0085	34	0.44	2.0
6	3.08	0.0700	44	0.65	2.0
10	1.83	0.0070	61	1.10	2.0
16	1.15	0.0052	82	1.75	2.0
25	0.727	0.0050	108	2.76	2.0
35	0.524	0.0044	135	3.83	2.0

* Current Carrying Capacity refers to SNI IEC 0225-5-52:2020

NYM (CU/PVC/PVC)

300/500 V : Copper Conductor, PVC Insulated, PVC Sheathed

Conductor			Nom Thickness		Approx Diameter of Cable	Approx. Weight of Cable	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm ²	-	-	mm	mm	mm	kg/km	m	-
4 CORE								
1.5	re	1	0.7	1.2	10.2	161	100	Coil
2.5	re	1	0.8	1.2	11.6	225	100	Coil
4	re	1	0.8	1.2	12.6	297	100	Coil
6	re	1	0.8	1.2	14.2	402	1000	Drum
10	re	1	1.0	1.2	17.1	625	1000	Drum
16	rm	7	1.0	1.2	21.1	974	1000	Drum
25	rm	7	1.2	1.2	25.7	1487	1000	Drum
35	rm	7	1.2	1.2	28.3	1934	1000	Drum
5 CORE								
1.5	re	1	0.7	1.2	11.0	188	100	Coil
2.5	re	1	0.8	1.2	12.6	263	100	Coil
4	re	1	0.8	1.2	14.1	364	100	Coil
6	re	1	0.8	1.2	15.4	477	100	Coil
10	re	1	1.0	1.2	18.7	746	1000	Drum
16	rm	7	1.0	1.2	23.1	1166	1000	Drum
25	rm	7	1.2	1.2	28.1	1785	1000	Drum
35	rm	7	1.2	1.2	31.5	2358	1000	Drum

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

ELECTRICAL DATA

Conductor			Current Carrying Capacity at 30°C in Air	Short Circuit Current at 1 sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Min. Insulation Resistance at 70°C			
mm ²	Ohm/km	M.Ohm.km	A	kA	kV/5 min
4 CORE					
1.5	12.1	0.011	18	0.17	2.0
2.5	7.41	0.010	26	0.27	2.0
4	4.61	0.0085	34	0.44	2.0
6	3.08	0.0700	44	0.65	2.0
10	1.83	0.0070	61	1.10	2.0
16	1.15	0.0052	82	1.75	2.0
25	0.727	0.0050	108	2.76	2.0
35	0.524	0.0044	135	3.83	2.0
5 CORE					
1.5	12.1	0.011	18	0.17	2.0
2.5	7.41	0.010	26	0.27	2.0
4	4.61	0.0085	34	0.44	2.0
6	3.08	0.0700	44	0.65	2.0
10	1.83	0.0070	61	1.10	2.0
16	1.15	0.0052	82	1.75	2.0
25	0.727	0.0050	108	2.76	2.0
35	0.524	0.0044	135	3.83	2.0

* Current Carrying Capacity refers to SNI IEC 0225-5-52:2020

NYAF (CU/PVC-f) or BVR

Flexible Copper Conductor, PVC Insulated

Building Cable

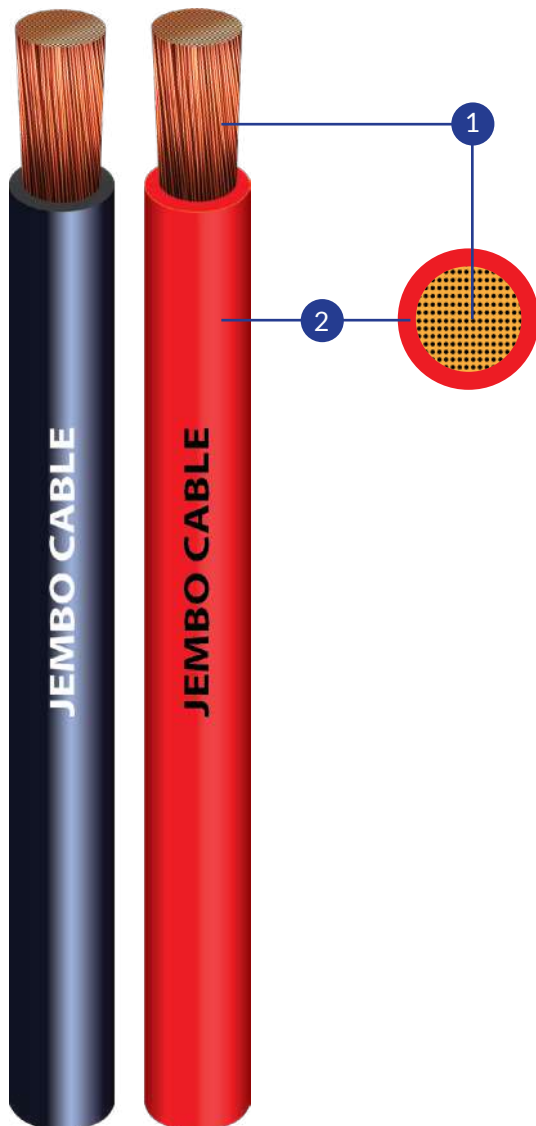
Specification: SNI 04-6629.3, IEC 60227 IEC 06

SPLN 42-3, IEC 60227 IEC 02

Other specifications are available on request

Rated Voltage : 300/500 V, 450/750 V

Application: Permanent installation in conduit or exposed wiring in dry location, for control cables or grounding cables and connecting cable in distribution cabinets installations that require high flexibility.



Construction:

1. Conductor : Flexible Copper Wire
2. Insulation : Extruded PVC

Identification of Cores:

Green with Yellow stripe (G/Y)
Black
Yellow
Blue
Red

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYAF (CU/PVC-f) or BVR

300/500 V , 450/750 V, Flexible Copper Conductor, PVC Insulated

Conductor		Insulation		Approx. Weight of Cable	Standard Length	Packing
Nom. Cross Section Area	Max. Diameter of wire	Nom. Thickness	Approx. Diameter of Cable			
mm ²	-	mm	mm	kg/km	m	-

300/500 V : Flexible Copper Conductor, PVC Insulated

0.5	0.21	0.6	2.1	81,9	100	Coil
0.75	0.21	0.6	2.3	107,7	100	Coil
1	0.31	0.6	2.5	133,6	100	Coil

450/750 V : Flexible Copper Conductor, PVC Insulated

1.5	0.26	0.7	2.9	190	100	Coil
2.5	0.26	0.8	3.6	312	100	Coil
4	0.31	0.8	4.1	447	100	Coil
6	0.31	0.8	4.7	632	100	Coil
10	0.41	1.0	6.0	1045	100	Coil
16	0.41	1.0	7.4	1599	100	Drum
25	0.41	1.2	9.0	239	1000	Drum
35	0.41	1.2	10.2	327	1000	Drum
50	0.41	1.4	12.2	469	1000	Drum
70	0.51	1.4	14.0	654	1000	Drum
95	0.51	1.6	16.1	862	1000	Drum
120	0.51	1.6	17.7	1082	1000	Drum
150	0.51	1.8	19.9	1361	1000	Drum
185	0.51	2.0	21.9	1655	500	Drum
240	0.51	2.2	25.0	2171	500	Drum

ELECTRICAL DATA

Conductor			Current Carrying Capacity at 30 °C		Short Circuit Current at 1 Sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Min. Insulation Resistance at 70°C	In Pipe	In Air		
mm ²	Ohm/km	M. Ohm.km	Ampere		kA	kV/5 min.

300/500 V : Flexible Copper Conductor, PVC Insulated

0.5	39	0.013	2.5	-	0.05	2.0
0.75	26	0.011	7	15	0.08	2.0
1	9.5	0.010	11	19	0.21	2.0

450/750 V : Flexible Copper Conductor, PVC Insulated

1.5	13.3	0.010	15	24	0.15	2.5
2.5	7.98	0.009	20	32	0.25	2.5
4	4.95	0.0070	25	42	0.41	2.5
6	3.3	0.0060	33	54	0.61	2.5
10	1.91	0.0056	45	73	1.05	2.5
16	1.21	0.0046	61	98	1.66	2.5
25	0.78	0.0044	83	129	2.58	2.5
35	0.554	0.0038	103	158	3.63	2.5
50	0.387	0.0037	132	198	5.19	2.5
70	0.272	0.0032	165	245	7.38	2.5
95	0.206	0.0032	197	292	9.75	2.5
120	0.161	0.0029	235	344	12.48	2.5
150	0.129	0.0029	-	391	15.57	2.5
185	0.106	0.0029	-	448	18.95	2.5
240	0.0801	0.0028	-	528	25.08	2.5

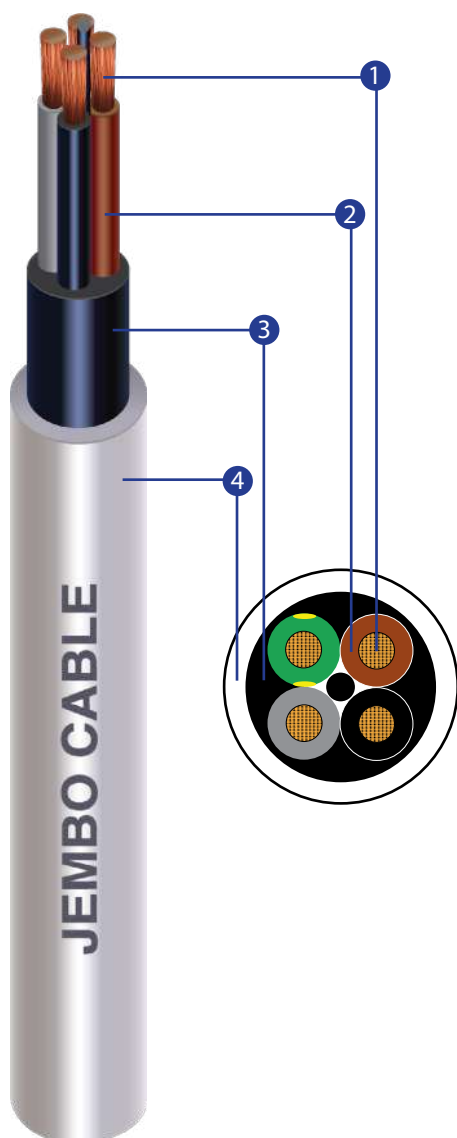
* Current Carrying Capacity refers to SNI IEC 0225-5-52:2020

Specification: SNI 04-6629.5, IEC 60227-5 IEC 53
SPLN 42-6-2

Other specifications are available on request

Rated Voltage : 300/500 V

Application: This cable is used in dry or damp rooms, portable application with loads that can be moved and is not permitted for thermal electrical equipment.



Construction:

- | | |
|-----------------|------------------------------|
| 1. Conductor | : Flexible Copper wire |
| 2. Insulation | : Extruded PVC |
| 3. Outer Sheath | : Extruded PVC (White Color) |

Identification of Cores:

- | | |
|-------------|--|
| Twin-Cores | : Blue, Black |
| Three-Cores | : System I
Green with yellow stripe (G/Y), Blue, Brown
System O
Brown, Black, Grey |
| Four-Cores | : System I
Green with yellow stripe (G/Y), Brown, Black, Grey
System O
Blue, Brown, Black, Grey |
| Five-Cores | : Green with yellow stripe (G/Y), Blue, Brown, Black, Grey |

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

300/500 V : Flexible Copper Conductor, PVC Insulated, PVC Sheathed

No. of Core	Conductor		Insulation	Sheath	Approx. Diameter of Cable	Approx. Weight of Cable	Standard Length	Packing
	Nom. Cross Section Area	Max. Diameter of wire	Nom. Thickness	Nom. Thickness				
	mm ²	-	mm	mm	mm	kg/km	m	
2	0.75	0.21	0.6	0.8	6.4	55	100	Coil
	1.0	0.21	0.6	0.8	6.8	64	100	Coil
	1.5	0.26	0.7	0.8	7.6	83	100	Coil
	2.5	0.26	0.8	1.0	9.4	132	100	Coil
3	0.75	0.21	0.6	0.8	6.8	65	100	Coil
	1	0.21	0.6	0.8	7.2	77	100	Coil
	1.5	0.26	0.7	0.9	8.3	105	100	Coil
	2.5	0.26	0.8	1.1	10.2	166	100	Coil
4	0.75	0.21	0.6	0.8	7.4	81	100	Coil
	1	0.21	0.6	0.9	8.1	99	100	Coil
	1.5	0.26	0.7	1.0	9.2	135	100	Coil
	2.5	0.26	0.8	1.1	11.1	208	100	Coil
5	0.75	0.21	0.6	0.9	8.2	98	100	Coil
	1.0	0.21	0.6	0.9	8.8	116	100	Coil
	1.5	0.26	0.7	1.1	10.2	163	100	Coil
	2.5	0.26	0.8	1.2	12.3	251	100	Coil

ELECTRICAL DATA

Conductor			Current Carrying Capacityat in Air at 30°C (Ampere)				Short Circuit Current at 1 Sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Min. Insulation Resistance at 70°C	Number of cores					
mm²	Ohm/km	M. Ohm.km	2C	3C	4C	5C	kA	kV/5 min.
0.75	26.0	0.011	12	12	12	12	0.08	2.5
1	19.5	0.010	15	15	15	15	0.21	2.5
1.5	13.3	0.010	18	18	18	18	0.15	2.5
2.5	7.98	0.009	25	25	25	25	0.25	2.5

* Current Carrying Capacity refers to SPLN 42-6-2

NY (CU/PVC/PVC) or VV, N2XY (CU/XLPE/PVC) or YJV **NAYY (AL/PVC/PVC) or VLV, NA2XY (AL/XLPE/PVC) or YJLV**

Copper or Aluminium Conductor, PVC or XLPE Insulated, PVC Sheathed

Power Cable

Specification:

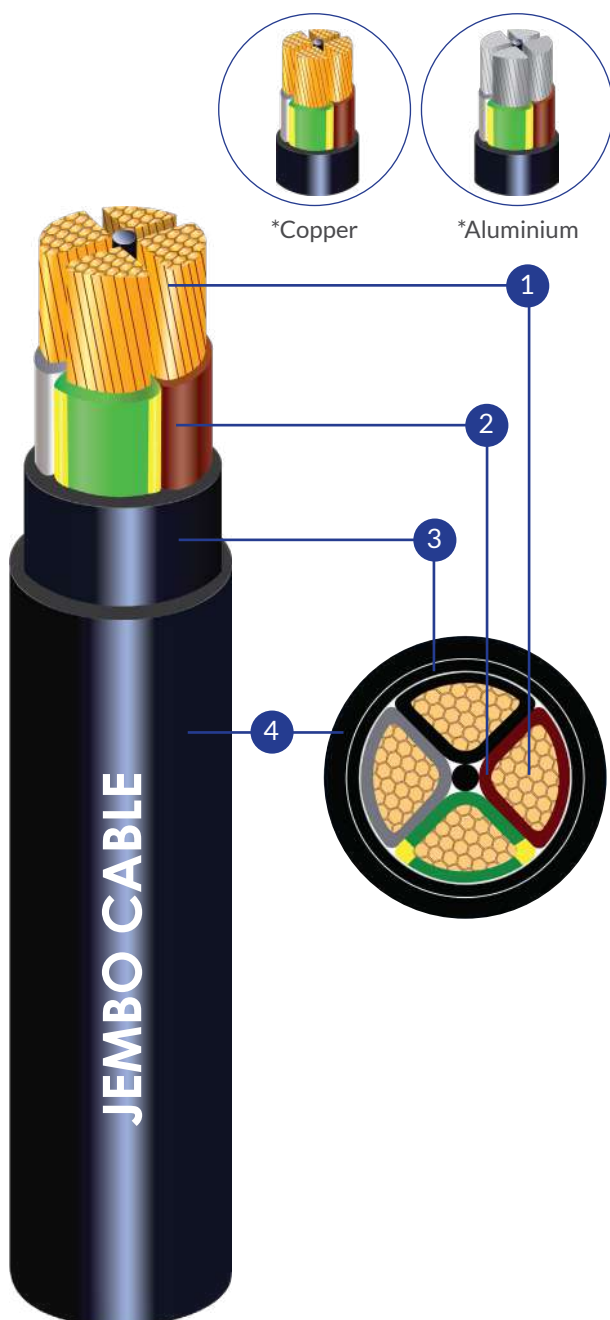
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Permanent installation for power circuit, indoor or outdoor lay in rack cable tray or underground, in conduit under plester or exposed installation in dry location, where not sustaining mechanical stress or damage or in duct.



Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Single-Core : Black
- Twin-Cores : Blue, Black
- Three-Cores : System I
Green with yellow stripe (G/Y),
Blue, Brown
System O
Brown, Black, Grey
- Four-Cores : System I
Green with yellow stripe (G/Y),
Brown, Black, Grey
System O
Blue, Brown, Black, Grey
- Five-Cores : Green with yellow stripe (G/Y),
Blue, Brown, Black, Grey

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYY (CU/PVC/PVC) or VV, N2XY (CU/XLPE/PVC) or YJV

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	
mm²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
1 CORE											
1.5	re / rm	1 / 7	0.8	0.7	1.4	1.4	6.2	6.0	54	48	1000
2.5	re / rm	1 / 7	0.8	0.7	1.4	1.4	6.6	6.4	66	60	1000
4	re / rm	1 / 7	1.0	0.7	1.4	1.4	7.5	6.9	92	78	1000
6	re / rm	1 / 7	1.0	0.7	1.4	1.4	8.1	7.5	116	101	1000
10	re / rm	1 / 7	1.0	0.7	1.4	1.4	9.0	8.4	163	144	1000
16	rm	7	1.0	0.7	1.4	1.4	10.0	9.4	226	204	1000
25	rm	7	1.2	0.9	1.4	1.4	11.7	11.1	334	305	1000
35	rm	7	1.2	0.9	1.4	1.4	12.8	12.2	434	400	1000
50	rm	19	1.4	1.0	1.4	1.4	14.5	13.7	566	522	1000
70	rm	19	1.4	1.1	1.4	1.4	16.3	15.7	773	726	1000
95	rm	19	1.6	1.1	1.5	1.5	18.7	17.7	1053	981	1000
120	rm	37	1.6	1.2	1.5	1.5	20.3	19.5	1286	1215	1000
150	rm	37	1.8	1.4	1.6	1.6	22.4	21.6	1582	1497	1000
185	rm	37	2.0	1.6	1.7	1.6	24.9	23.9	1967	1854	1000
240	rm	61	2.2	1.7	1.8	1.7	28.0	26.8	2560	2415	1000
300	rm	61	2.4	1.8	1.9	1.8	31.0	29.6	3177	2996	1000
400	rm	61	2.6	2.0	2.0	1.9	34.6	33.2	4041	3827	1000
500	rm	61	2.8	2.2	2.1	2.0	38.5	37.1	5127	4874	1000
630	rm	127	2.8	2.4	2.2	2.2	42.6	41.8	6439	6225	500

NAYY (AL/PVC/PVC) or VLV, NA2XY (AL/XLPE/PVC) or YJLV

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	
mm²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
1 CORE											
10	rm	7	1.0	0.7	1.4	1.4	8.9	8.3	101	82	1000
16	rm	7	1.0	0.7	1.4	1.4	10.0	9.4	130	109	1000
25	rm	7	1.2	0.9	1.4	1.4	11.7	11.1	183	153	1000
35	rm	7	1.2	0.9	1.4	1.4	12.8	12.2	224	191	1000
50	rm	19	1.4	1.0	1.4	1.4	14.5	13.7	281	237	1000
70	rm	19	1.4	1.1	1.4	1.4	16.2	15.6	361	315	1000
95	rm	19	1.6	1.1	1.5	1.5	18.7	17.7	484	413	1000
120	rm	37	1.6	1.2	1.5	1.5	20.2	19.4	567	497	1000
150	rm	37	1.8	1.4	1.6	1.6	22.4	21.6	697	612	1000
185	rm	37	2.0	1.6	1.7	1.6	24.8	23.8	859	747	1000
240	rm	61	2.2	1.7	1.8	1.7	28.0	26.8	1100	955	1000
300	rm	61	2.4	1.8	1.9	1.8	30.8	29.4	1342	1163	1000
400	rm	61	2.6	2.0	2.0	1.9	34.4	33.0	1684	1472	1000
500	rm	61	2.8	2.2	2.1	2.0	38.3	36.9	2107	1856	1000
630	rm	127	2.8	2.4	2.2	2.2	42.4	41.6	2531	2318	500

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYY (CU/PVC/PVC) or VV, N2XY (CU/XLPE/PVC) or YJV

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE											
1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	12.2	11.8	192	175	1000
2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	13.0	12.6	228	210	1000
4	re / rm	1 / 7	1.0	0.7	1.8	1.8	14.8	13.6	308	260	1000
6	re / rm	1 / 7	1.0	0.7	1.8	1.8	16.0	14.8	379	326	1000
10	re / rm	1 / 7	1.0	0.7	1.8	1.8	17.8	16.6	507	446	1000
16	rm	7	1.0	0.7	1.8	1.8	19.8	18.6	677	607	1000
25	rm	7	1.2	0.9	1.8	1.8	23.2	22.0	978	888	1000
35	rm	7	1.2	0.9	1.8	1.8	25.4	24.2	1240	1139	1000
50	rm	19	1.4	1.0	1.8	1.8	28.8	27.2	1613	1472	1000
70	rm	19	1.4	1.1	1.9	1.9	33.0	31.8	2202	2062	1000
95	rm	19	1.6	1.1	2.1	2.0	37.8	35.6	2963	2716	1000
120	rm	37	1.6	1.2	2.2	2.1	41.2	39.4	3600	3362	500
150	rm	37	1.8	1.4	2.3	2.2	45.6	43.8	4430	4154	500
185	rm	37	2.0	1.6	2.4	2.4	50.4	48.8	5465	5167	300
240	rm	61	2.2	1.7	2.6	2.6	57.0	55.0	7099	6699	300
300	rm	61	2.4	1.8	2.8	2.7	63.0	60.4	8763	8224	300

NAYY (AL/PVC/PVC) or VLV, NA2XY (AL/XLPE/PVC) or YJLV

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE											
10	rm	7	1.0	0.7	1.8	1.8	17.6	16.4	379	319	1000
16	rm	7	1.0	0.7	1.8	1.8	19.8	18.6	486	416	1000
25	rm	7	1.2	0.9	1.8	1.8	23.2	22.0	676	586	1000
35	rm	7	1.2	0.9	1.8	1.8	25.4	24.2	822	720	1000
50	rm	19	1.4	1.0	1.8	1.8	28.8	27.2	1043	902	1000
70	rm	19	1.4	1.1	1.9	1.9	32.8	31.6	1371	1232	1000
95	rm	19	1.6	1.1	2.1	2.0	37.8	35.6	1827	1580	1000
120	rm	37	1.6	1.2	2.2	2.1	41.0	39.2	2152	1916	500
150	rm	37	1.8	1.4	2.3	2.2	45.6	43.8	2660	2384	500
185	rm	37	2.0	1.6	2.4	2.4	50.2	48.6	3237	2940	300
240	rm	61	2.2	1.7	2.6	2.6	57.0	55.0	4180	3781	300
300	rm	61	2.4	1.8	2.8	2.7	62.6	60.0	5064	4529	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYY (CU/PVC/PVC) or VV, N2XY (CU/XLPE/PVC) or YJV

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE											
1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	12.7	12.3	216	196	1000
2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	13.6	13.1	263	239	1000
4	re / rm	1 / 7	1.0	0.7	1.8	1.8	15.5	14.2	361	304	1000
6	re / rm	1 / 7	1.0	0.7	1.8	1.8	16.8	15.5	452	388	1000
10	re / rm	1 / 7	1.0	0.7	1.8	1.8	18.8	17.5	618	544	1000
16	rm	7	1.0	0.7	1.8	1.8	20.9	19.6	842	756	1000
25	rm	7	1.2	0.9	1.8	1.8	24.6	23.3	1233	1120	1000
35	rm	7	1.2	0.9	1.8	1.8	27.0	25.7	1582	1454	1000
50	sm	19	1.4	1.0	1.9	1.8	27.4	25.5	1752	1615	1000
70	sm	19	1.4	1.1	2.0	2.0	30.8	29.5	2394	2264	1000
95	sm	19	1.6	1.1	2.2	2.1	36.1	33.8	3294	3074	1000
120	sm	37	1.6	1.2	2.3	2.2	39.7	37.8	4037	3816	1000
150	sm	37	1.8	1.4	2.4	2.4	43.3	41.2	4946	4670	500
185	sm	37	2.0	1.6	2.6	2.5	48.0	46.1	6129	5825	500
240	sm	37	2.2	1.7	2.8	2.7	55.9	53.1	8027	7569	300
300	sm	37	2.4	1.8	2.9	2.9	60.8	58.2	9891	9417	300

NAYY (AL/PVC/PVC) or VLV, NA2XY (AL/XLPE/PVC) or YJLV

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE											
10	rm	7	1.0	0.7	1.8	1.8	18.5	17.2	428	356	1000
16	rm	7	1.0	0.7	1.8	1.8	20.9	19.6	555	470	1000
25	rm	7	1.2	0.9	1.8	1.8	24.6	23.3	779	667	1000
35	rm	7	1.2	0.9	1.8	1.8	27.0	25.7	954	826	1000
50	sm	19	1.4	1.0	1.9	1.8	26.7	24.8	887	752	1000
70	sm	19	1.4	1.1	2.0	2.0	29.9	28.7	1146	1019	1000
95	sm	19	1.6	1.1	2.2	2.1	34.6	32.3	1547	1335	1000
120	sm	37	1.6	1.2	2.3	2.2	37.4	35.4	1820	1613	1000
150	sm	37	1.8	1.4	2.4	2.4	41.0	39.3	2189	1963	500
185	sm	37	2.0	1.6	2.6	2.5	45.9	43.9	2736	2445	500
240	sm	37	2.2	1.7	2.8	2.7	51.2	48.8	3455	3080	300
300	sm	37	2.4	1.8	2.9	2.9	56.7	53.7	4245	3752	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYY (CU/PVC/PVC) or VV, N2XY (CU/XLPE/PVC) or YJV

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	
mm²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE											
1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	13.5	13.1	254	228	1000
2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	14.5	14.0	313	283	1000
4	re / rm	1 / 7	1.0	0.7	1.8	1.8	16.7	15.2	437	366	1000
6	re / rm	1 / 7	1.0	0.7	1.8	1.8	18.1	16.7	553	473	1000
10	re / rm	1 / 7	1.0	0.7	1.8	1.8	20.3	18.9	766	673	1000
16	rm	7	1.0	0.7	1.8	1.8	22.7	21.3	1056	947	1000
25	rm	7	1.2	0.9	1.8	1.8	26.9	25.4	1561	1417	1000
35	rm	7	1.2	0.9	1.8	1.8	29.5	28.1	2015	1851	1000
50	sm	19	1.4	1.0	2.0	1.9	32.2	29.8	2357	2135	1000
70	sm	19	1.4	1.1	2.1	2.1	35.9	34.5	3203	3018	1000
95	sm	19	1.6	1.1	2.3	2.2	40.6	38.1	4333	4034	500
120	sm	37	1.6	1.2	2.4	2.4	44.9	43.0	5347	5067	500
150	sm	37	1.8	1.4	2.6	2.5	48.7	46.7	6527	6177	500
185	sm	37	2.0	1.6	2.7	2.7	54.8	52.6	8141	7694	300
240	sm	37	2.2	1.7	3.0	2.9	62.5	60.0	10583	10028	300
300	sm	37	2.4	1.8	3.2	3.1	68.2	65.2	13087	12403	300

NAYY (AL/PVC/PVC) or VLV, NA2XY (AL/XLPE/PVC) or YJLV

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, PVC Sheathed

Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	NAYY	NA2XY	
mm²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE											
10	rm	7	1.0	0.7	1.8	1.8	20.1	18.6	515	423	1000
16	rm	7	1.0	0.7	1.8	1.8	22.7	21.3	674	565	1000
25	rm	7	1.2	0.9	1.8	1.8	26.9	25.4	956	812	1000
35	rm	7	1.2	0.9	1.8	1.8	29.5	28.1	1178	1014	1000
50	sm	19	1.4	1.0	2.0	1.9	30.9	28.9	1169	982	1000
70	sm	19	1.4	1.1	2.1	2.1	35.2	33.8	1547	1365	1000
95	sm	19	1.6	1.1	2.3	2.2	40.1	37.7	2042	1746	500
120	sm	37	1.6	1.2	2.4	2.4	44.0	41.7	2449	2135	500
150	sm	37	1.8	1.4	2.6	2.5	48.5	46.4	2971	2622	500
185	sm	37	2.0	1.6	2.7	2.7	53.9	51.7	3675	3235	300
240	sm	37	2.2	1.7	3.0	2.9	60.4	57.9	4671	4133	300
300	sm	37	2.4	1.8	3.2	3.1	66.6	63.6	5692	5024	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYY (CU/PVC/PVC) or KVV, N2XY (CU/XLPE/PVC) or KYJV

Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

Control Cable

Specification:

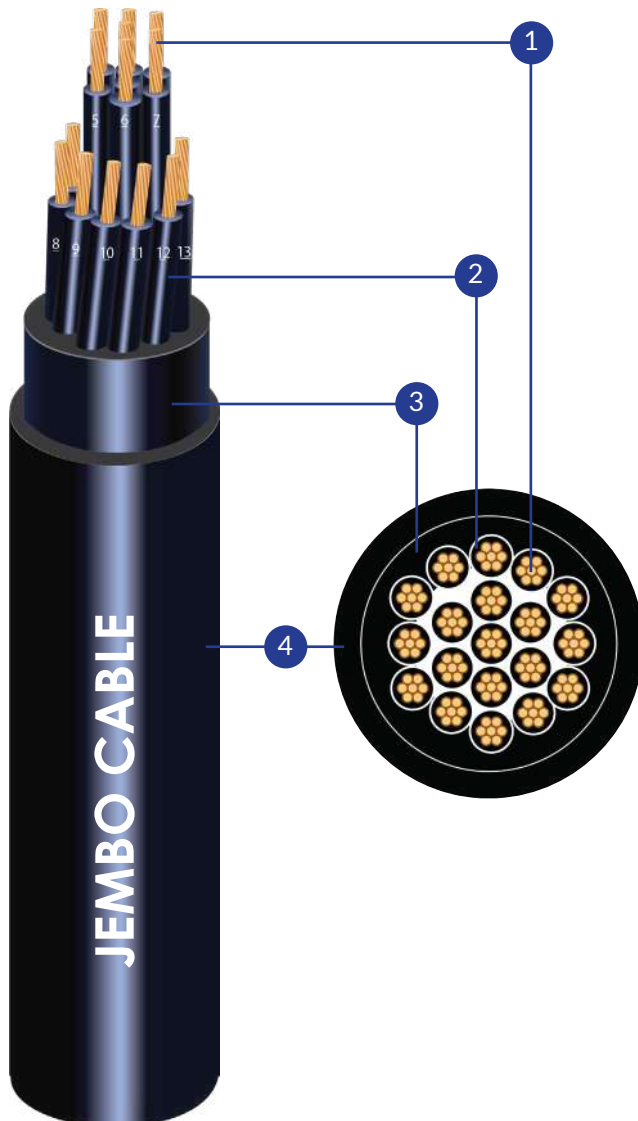
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Permanent installation for control circuit, indoor or outdoor lay in rack cable tray or underground, in conduit under plester or exposed installation in dry location, where not sustaining mechanical stress or damage or in duct.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYN (CU/PVC/PVC) or KVV, N2XY (CU/XLPE/PVC) or KYJV

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	NY Y	N2XY	
	mm ²	-	-	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
6	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	15.4	14.8	331	293	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	16.6	16.0	414	372	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	19.3	17.5	589	490	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	21.1	19.3	756	644	1000
7	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	15.4	14.8	341	301	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	16.6	16.0	431	385	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	19.3	17.5	617	514	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	21.1	19.3	798	681	1000
8	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	16.5	15.8	378	333	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	17.8	17.1	480	428	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	20.8	18.8	690	574	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	22.8	20.8	895	763	1000
10	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	18.6	17.8	462	405	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	20.2	19.4	591	526	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	23.8	21.4	856	709	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	26.2	23.8	1115	948	1000
12	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	19.1	18.3	504	439	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	20.8	19.9	650	576	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	24.5	22.0	950	787	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	27.0	24.5	1246	1060	1000
14	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	19.9	19.0	560	486	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	21.7	20.8	728	643	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	25.7	23.0	1071	885	1000
	6	re / rm	1 / 7	1.0	0.7	1.8	1.8	28.3	25.7	1411	1199	1000
16	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	20.8	19.9	624	540	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	22.7	21.8	815	718	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	27.0	24.1	1205	993	1000
	6	re / rm	1 / 7	1.0	0.7	1.9	1.8	30.0	27.0	1608	1352	1000
19	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	21.8	20.8	699	602	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	23.8	22.8	919	807	1000
	4	re / rm	1 / 7	1.0	0.7	1.8	1.8	28.3	25.3	1368	1127	1000
	6	re / rm	1 / 7	1.0	0.7	1.9	1.8	31.9	28.3	1864	1542	1000
21	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	22.9	21.8	758	652	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	25.0	23.9	1001	878	1000
	4	re / rm	1 / 7	1.0	0.7	1.9	1.8	30.0	26.6	1508	1229	1000
	6	re / rm	1 / 7	1.0	0.7	2.0	1.9	33.8	30.0	2052	1700	1000
24	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	25.0	23.8	865	743	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	27.4	26.2	1144	1002	1000
	4	re / rm	1 / 7	1.0	0.7	2.0	1.8	33.6	29.2	1774	1406	1000
	6	re / rm	1 / 7	1.0	0.7	2.1	2.0	37.4	33.6	2369	1994	1000
30	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	26.3	25.0	1008	860	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	28.9	27.6	1345	1174	1000
	4	re / rm	1 / 7	1.0	0.7	2.0	1.9	35.5	31.4	2095	1709	1000
	6	re / rm	1 / 7	1.0	0.7	2.2	2.0	39.7	35.5	2835	2370	1000
40	1.5	re / rm	1 / 7	0.8	0.7	1.8	1.8	29.3	27.8	1273	1079	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.9	1.9	32.8	30.9	1760	1505	1000
	4	re / rm	1 / 7	1.0	0.7	2.2	2.0	40.0	35.2	2718	2199	1000
	6	re / rm	1 / 7	1.0	0.7	2.3	2.2	45.0	40.0	3706	3085	500
52	1.5	re / rm	1 / 7	0.8	0.7	2.0	1.9	33.5	31.6	1651	1385	1000
	2.5	re / rm	1 / 7	0.8	0.7	2.1	2.0	37.1	35.2	2241	1933	1000
	4	re / rm	1 / 7	1.0	0.7	2.3	2.1	45.5	39.6	3486	2787	500
	6	re / rm	1 / 7	1.0	0.7	2.5	2.3	50.9	45.5	4729	3963	300
61	1.5	re / rm	1 / 7	0.8	0.7	2.0	2.0	35.4	33.6	1882	1591	1000
	2.5	re / rm	1 / 7	0.8	0.7	2.1	2.1	39.2	37.4	2566	2227	1000
	4	re / rm	1 / 7	1.0	0.7	2.4	2.2	48.3	42.5	4024	3260	500
	6	re / rm	1 / 7	1.0	0.7	2.6	2.4	54.5	48.3	5518	4583	300

Tolerance of Diameter : OD $\leq$ 20 mm : ± 1.0 mm, OD $\leq$ 40 mm : ± 2 mm, OD $\leq$ 60 mm : ± 3 mm, OD $\leq$ 80 mm : ± 4 mm, OD $>$ 80 mm : $\pm 5\%$

NYY (CU/PVC/PVC)

Copper Conductor, PVC Insulated, PVC Sheathed

Power Cable

Specification:

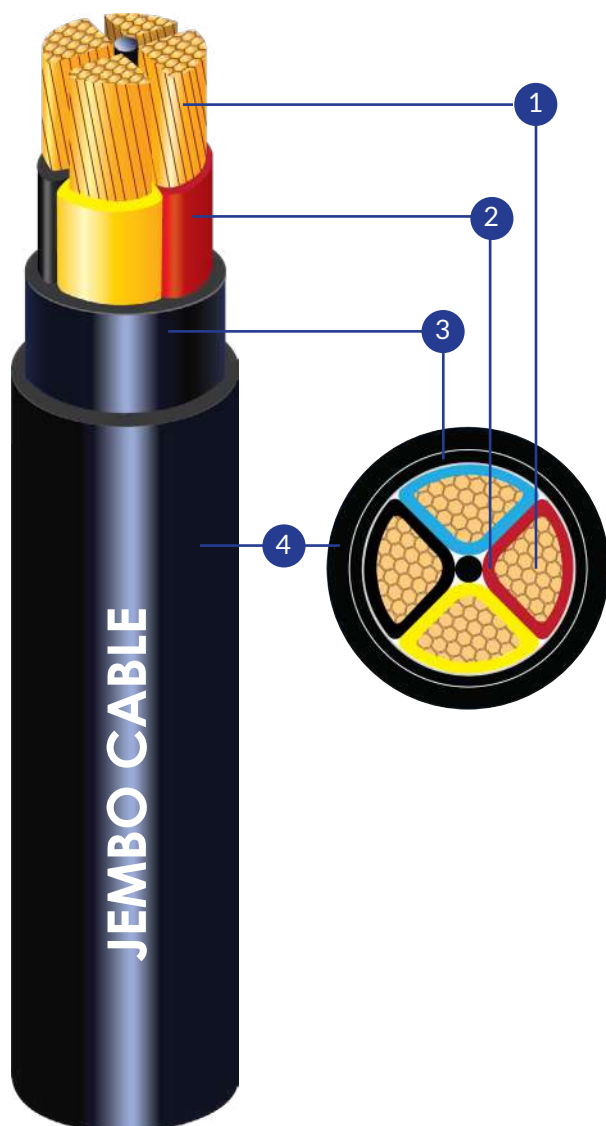
SPLN D3.010-2 : 2014

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Permanent installation for power circuit, indoor or outdoor lay in rack cable tray or underground, in conduit under plester or exposed installation in dry location, where not sustaining mechanical stress or damage or in duct.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black Color)
4. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Single-Core : Black
Four-Cores : Red, Yellow, Black, Blue

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

0.6/1 (1.2) kV : Copper Conductor, PVC Insulated, PVC Sheathed

Conductor			Nom Thickness		Approx Diameter of Cable	Approx. Weight of Cable	Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath			
mm ²	-	-	mm	mm	mm	kg/km	m
1 CORE							
35	rm	7	1.2	1.4	12.8	434	1000
50	rm	19	1.4	1.4	14.5	566	1000
70	rm	19	1.4	1.4	16.3	773	1000
95	rm	19	1.6	1.5	18.7	1053	1000
120	rm	37	1.6	1.5	20.3	1286	1000
150	rm	37	1.8	1.6	22.4	1582	1000
185	rm	37	2.0	1.7	24.9	1967	500
240	rm	61	2.2	1.8	28.0	2560	500
4 CORE							
50	sm	19	1.4	1.9	32.0	2342	1000
70	sm	19	1.4	2.1	35.9	3203	1000
95	sm	19	1.6	2.2	40.4	4314	1000
120	sm	37	1.6	2.3	44.7	5326	500
150	sm	37	1.8	2.5	48.5	6505	500

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (x)		Current Carrying Capacity in Air				Short Circuit Current at 1 Sec.	AC Voltage Test
				Flat Formation	Trefoil Formation	at 35°C		at 40°C			
Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C	Min. Insulation Resistance at 20°C								
mm²	Ohm/km	Ohm/km	M. Ohm.km	Ohm/km	Ohm/km	Ampere				kA	kV/5 min.
1 CORE											
35	0.524	0.627	40	0.069	0.098	132	128	120	117	3.83	3.5
50	0.387	0.463	30	0.064	0.093	163	158	148	144	5.19	3.5
70	0.268	0.321	30	0.059	0.089	206	200	188	182	7.49	3.5
95	0.193	0.232	30	0.058	0.087	256	249	234	227	10.41	3.5
120	0.153	0.184	30	0.055	0.084	299	290	273	264	13.13	3.5
150	0.124	0.150	20	0.054	0.084	345	334	315	305	16.20	3.5
185	0.0991	0.120	20	0.054	0.083	400	387	364	352	20.27	3.5
240	0.0754	0.092	20	0.052	0.081	485	470	442	429	26.64	3.5
4 CORE											
50	0.387	0.463	30	0.081		156		142		5.19	3.5
70	0.268	0.321	30	0.079		198		181		7.49	3.5
95	0.193	0.232	30	0.078		241		221		10.41	3.5
120	0.153	0.184	30	0.076		275		252		13.13	3.5
150	0.124	0.150	20	0.076		318		291		16.20	3.5

* Current Carrying Capacity refers to SPLN D3.010-2 : 2014

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC) **NAYFGbY (AL/PVC/SFA/PVC), NA2XFGbY (AL/XLPE/SFA/PVC)**

Copper or Aluminium Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Power Cable

Specification:

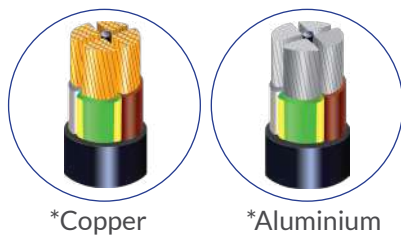
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged.



Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Flat Steel Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

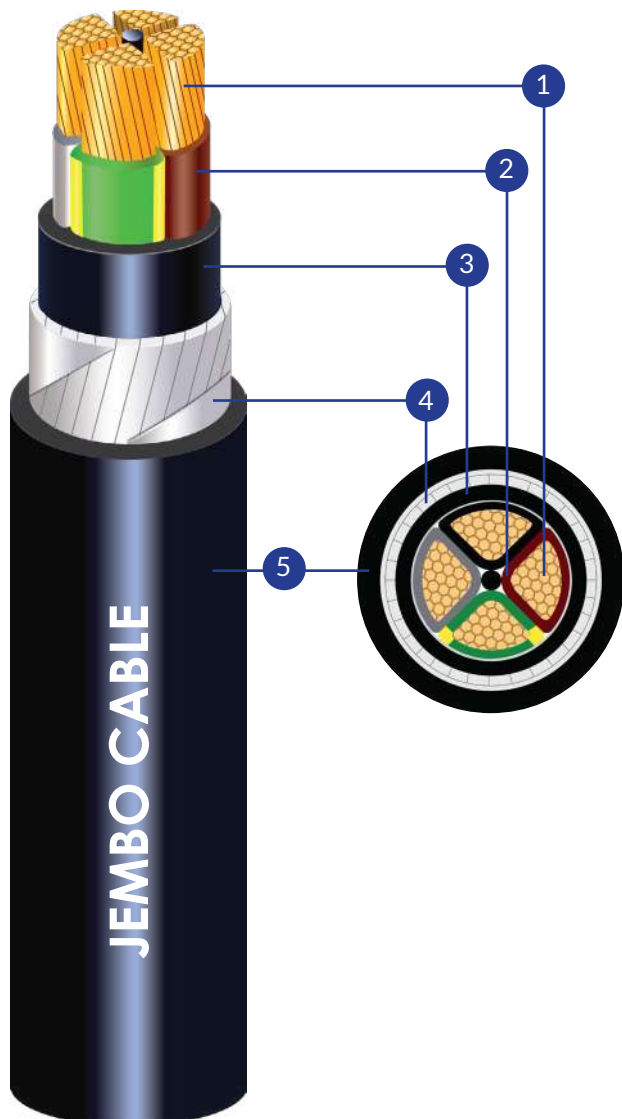
Twin-Cores : Blue, Black

Three-Cores : System I
 Green with yellow stripe (G/Y),
 Blue, Brown
 System O
 Brown, Black, Grey

Four-Cores : System I
 Green with yellow stripe (G/Y),
 Brown, Black, Grey
 System O
 Blue, Brown, Black, Grey

Five-Cores : Green with yellow stripe (G/Y),
 Blue, Brown, Black, Grey

Other colours are available on request



Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYFGbY	N2XFGbY	Galv. Flat Steel Wire	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
2 CORE												
16	rm	7	1.0	0.7	4 x 0.8	1.8	1.8	22.0	20.8	1155	1055	1000
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	25.4	24.2	1521	1401	1000
35	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	27.6	26.4	1844	1712	1000
50	rm	19	1.4	1.0	4 x 0.8	1.9	1.8	31.2	29.4	2322	2134	1000
70	rm	19	1.4	1.1	4 x 0.8	2.0	2.0	35.4	34.2	3034	2836	1000
95	rm	19	1.6	1.1	4 x 0.8	2.2	2.1	40.6	38.4	3987	3699	1000
120	rm	37	1.6	1.2	4 x 0.8	2.3	2.2	44.0	42.2	4724	4448	500
150	rm	37	1.8	1.4	4 x 0.8	2.4	2.3	48.4	46.6	5662	5348	500
185	rm	37	2.0	1.6	4 x 0.8	2.5	2.5	53.2	51.6	6833	6498	300
240	rm	61	2.2	1.7	4 x 0.8	2.7	2.7	59.8	57.8	8642	8203	300
300	rm	61	2.4	1.8	4 x 0.8	2.9	2.8	65.8	63.2	10477	9868	300

NAYFGbY (AL/PVC/SFA/PVC), NA2XFGbY (AL/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYFGbY	NA2XFGbY	Galv. Flat Steel Wire	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
2 CORE												
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	25.4	24.2	1219	1098	1000
35	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	27.6	26.4	1425	1293	1000
50	rm	19	1.4	1.0	4 x 0.8	1.9	1.8	31.2	29.4	1753	1565	1000
70	rm	19	1.4	1.1	4 x 0.8	2.0	2.0	35.2	34.0	2176	2005	1000
95	rm	19	1.6	1.1	4 x 0.8	2.2	2.1	40.6	38.4	2851	2563	500
120	rm	37	1.6	1.2	4 x 0.8	2.3	2.2	43.8	42.0	3275	2975	500
150	rm	37	1.8	1.4	4 x 0.8	2.4	2.3	48.4	46.6	3892	3578	500
185	rm	37	2.0	1.6	4 x 0.8	2.5	2.5	53.0	51.4	4604	4271	300
240	rm	61	2.2	1.7	4 x 0.8	2.7	2.7	59.8	57.8	5723	5284	300
300	rm	61	2.4	1.8	4 x 0.8	2.9	2.8	65.4	62.8	6775	6171	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYFGbY	N2XFGbY	Galv. Flat Steel Wire	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE												
10	re / rm	1 / 7	1.0	-	4 x 0.8	1.8	-	21.0	-	1066	-	1000
16	rm	7	1.0	0.7	4 x 0.8	1.8	1.8	23.1	21.8	1350	1207	1000
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	26.8	25.5	1833	1690	1000
35	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	29.2	27.9	2243	2085	1000
50	sm	19	1.4	1.0	4 x 0.8	2.0	1.9	29.8	27.9	2430	2232	1000
70	sm	19	1.4	1.1	4 x 0.8	2.1	2.0	33.2	31.7	3138	2962	1000
95	sm	19	1.6	1.1	4 x 0.8	2.2	2.2	38.7	36.2	4262	3910	1000
120	sm	37	1.6	1.2	4 x 0.8	2.4	2.3	42.5	40.6	5099	4840	500
150	sm	37	1.8	1.4	4 x 0.8	2.5	2.4	46.1	43.8	6111	5774	500
185	sm	37	2.0	1.6	4 x 0.8	2.6	2.6	50.6	48.9	7406	7060	300
240	sm	37	2.2	1.7	4 x 0.8	2.9	2.8	58.7	55.9	9536	9008	300
300	sm	37	2.4	1.8	4 x 0.8	3.0	2.9	63.6	60.8	11537	10966	300

NAYFGbY (AL/PVC/SFA/PVC), NA2XFGbY (AL/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYFGbY	NA2XFGbY	Galv. Flat Steel Wire	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE												
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	26.8	25.5	1379	1236	1000
35	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	29.2	27.9	1615	1457	1000
50	sm	19	1.4	1.0	4 x 0.8	2.0	1.9	29.1	27.2	1535	1366	1000
70	sm	19	1.4	1.1	4 x 0.8	2.1	2.0	32.3	30.9	1887	1714	1000
95	sm	19	1.6	1.1	4 x 0.8	2.2	2.2	36.8	34.7	2368	2138	1000
120	sm	37	1.6	1.2	4 x 0.8	2.4	2.3	40.2	38.2	2814	2568	500
150	sm	37	1.8	1.4	4 x 0.8	2.5	2.4	43.8	41.9	3286	3003	500
185	sm	37	2.0	1.6	4 x 0.8	2.6	2.6	48.5	46.7	3947	3640	500
240	sm	37	2.2	1.7	4 x 0.8	2.9	2.8	54.0	51.6	4828	4386	300
300	sm	37	2.4	1.8	4 x 0.8	3.0	2.9	59.5	56.3	5786	5168	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYFGbY	N2XFGbY	Galv. Flat Steel Wire	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE												
10	re / rm	1 / 7	1.0	0.7	4 x 0.8	1.8	1.8	22.5	21.1	1246	1122	1000
16	rm	7	1.0	0.7	4 x 0.8	1.8	1.8	24.9	23.5	1597	1457	1000
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	29.1	27.6	2222	2021	1000
35	rm	7	1.2	0.9	4 x 0.8	1.9	1.9	31.9	30.5	2754	2557	1000
50	sm	19	1.4	1.0	4 x 0.8	2.1	2.0	34.6	32.2	3160	2875	1000
70	sm	19	1.4	1.1	4 x 0.8	2.2	2.2	38.7	37.3	4187	3940	1000
95	sm	19	1.6	1.1	4 x 0.8	2.4	2.3	43.4	40.9	5427	5060	500
120	sm	37	1.6	1.2	4 x 0.8	2.5	2.4	47.7	45.6	6574	6208	500
150	sm	37	1.8	1.4	4 x 0.8	2.7	2.6	51.5	49.5	7859	7443	300
185	sm	37	2.0	1.6	4 x 0.8	2.8	2.8	57.6	55.4	9618	9129	300
240	sm	37	2.2	1.7	4 x 0.8	3.1	3.0	65.3	62.8	12267	11644	300
300	sm	37	2.4	1.8	4 x 0.8	3.3	3.2	71.0	68.0	14939	14184	300
5 CORE												
6	re / rm	1 / 7	1.0	-	4 x 0.8	1.8	-	21.8	-	1097	-	1000
10	re / rm	1 / 7	1.0	0.7	4 x 0.8	1.8	1.8	24.2	22.6	1417	1274	1000
16	rm	7	1.0	0.7	4 x 0.8	1.8	1.8	26.9	25.3	1857	1669	1000
25	rm	7	1.2	0.9	4 x 0.8	1.9	1.8	31.7	29.9	2603	2358	1000
35	rm	7	1.2	0.9	4 x 0.8	2.0	2.0	35.3	33.2	3269	3007	1000
50	rm	19	1.4	1.0	4 x 0.8	2.2	2.1	40.7	38.3	4286	3928	1000

NAYFGbY (AL/PVC/SFA/PVC), NA2XFGbY (AL/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYFGbY	NA2XFGbY	Galv. Flat Steel Wire	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	NAYFGbY	NA2XFGbY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE												
25	rm	7	1.2	0.9	4 x 0.8	1.8	1.8	29.1	27.6	1617	1416	1000
35	rm	7	1.2	0.9	4 x 0.8	1.9	1.9	31.9	30.5	1916	1720	1000
50	sm	19	1.4	1.0	4 x 0.8	2.1	2.0	33.3	31.3	1940	1692	1000
70	sm	19	1.4	1.1	4 x 0.8	2.2	2.1	38.0	36.0	2501	2183	1000
95	sm	19	1.6	1.1	4 x 0.8	2.4	2.3	42.9	40.5	3134	2769	500
120	sm	37	1.6	1.2	4 x 0.8	2.5	2.4	46.8	44.3	3644	3241	500
150	sm	37	1.8	1.4	4 x 0.8	2.7	2.6	51.3	49.2	4275	3886	300
185	sm	37	2.0	1.6	4 x 0.8	2.8	2.8	56.7	54.5	5145	4638	300
240	sm	37	2.2	1.7	4 x 0.8	3.1	3.0	63.2	60.7	6315	5709	300
300	sm	37	2.4	1.8	4 x 0.8	3.3	3.2	69.4	66.4	7482	6742	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC)

Copper Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

Control Cable

Specification:

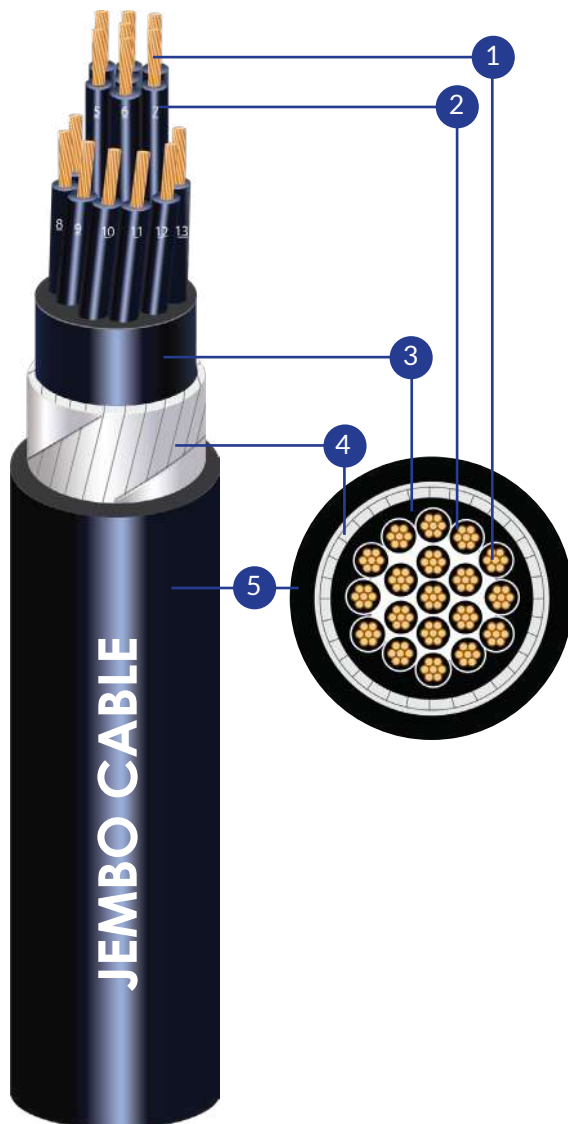
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Flat Steel Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYFGbY (CU/PVC/SFA/PVC), N2XFGbY (CU/XLPE/SFA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Flat Steel Wire & Tape Armoured, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Width x Thick Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYFGbY	N2XFGbY	Galv. Flat Steel Wire	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	NYFGbY	N2XFGbY	
	mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
6	4	re / rm	1 / 7	1.0	-	4x0.8	1.8	-	21.5	-	1040	-	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	23.3	21.5	1265	1095	1000
7	4	re / rm	1 / 7	1.0	-	4x0.8	1.8	-	21.5	-	1067	-	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	23.3	21.5	1307	1131	1000
8	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	23.0	21.0	1172	1022	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	25.0	23.0	1437	1245	1000
10	1.5	re / rm	1 / 7	0.8	-	4x0.8	1.8	-	20.8	-	910	-	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	22.4	21.6	1070	976	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	26.0	23.6	1428	1219	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	28.4	26.0	1748	1519	1000
12	1.5	re / rm	1 / 7	0.8	-	4x0.8	1.8	-	21.3	-	953	-	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	23.0	22.1	1132	1055	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	26.7	24.2	1550	1299	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	29.2	26.7	1908	1660	1000
14	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	22.1	21.2	1039	936	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	23.9	23.0	1239	1125	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	27.9	25.2	1701	1427	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.9	1.8	30.7	27.9	2119	1830	1000
16	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	23.0	22.1	1106	1019	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	24.9	24.0	1356	1230	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.8	1.8	29.2	26.3	1867	1566	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	1.9	1.8	32.2	29.2	2333	2013	1000
19	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	24.0	23.0	1210	1084	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	26.0	25.0	1491	1349	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.9	1.8	30.7	27.5	2075	1730	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.0	1.9	34.3	30.7	2665	2250	1000
21	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	25.1	24.0	1300	1164	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	27.2	26.1	1603	1450	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	1.9	1.8	32.2	28.8	2233	1863	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.1	1.9	36.2	32.2	2888	2426	1000
24	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	27.2	26.0	1467	1314	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.9	1.8	29.8	28.4	1821	1635	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	2.0	1.9	35.8	31.6	2592	2117	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.2	2.0	40.2	35.8	3390	2812	1000
30	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.8	1.8	28.5	27.2	1641	1462	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.9	1.9	31.3	30.0	2055	1852	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	2.1	2.0	38.3	33.8	3051	2482	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.3	2.1	42.5	38.3	3923	3326	1000
40	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	1.9	1.9	31.7	30.2	2010	1758	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	2.0	2.0	35.2	33.3	2565	2275	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	2.3	2.1	42.8	38.0	3809	3153	1000
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.4	2.3	47.8	42.8	4934	4175	500
52	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	2.0	2.0	35.7	34.0	2468	2159	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	2.2	2.1	39.9	38.0	3260	2887	1000
	4	re / rm	1 / 7	1.0	0.7	4x0.8	2.4	2.2	48.3	42.4	4717	3875	500
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.6	2.4	53.7	48.3	6127	5194	500
61	1.5	re / rm	1 / 7	0.8	0.7	4x0.8	2.1	2.0	38.2	35.8	2837	2408	1000
	2.5	re / rm	1 / 7	0.8	0.7	4x0.8	2.2	2.2	42.0	40.2	3624	3248	500
	4	re / rm	1 / 7	1.0	0.7	4x0.8	2.5	2.3	51.1	45.3	5352	4419	500
	6	re / rm	1 / 7	1.0	0.7	4x0.8	2.7	2.5	57.3	51.1	6993	5911	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYR**G**bY (CU/PVC/SWA/PVC), N2XR**G**bY (CU/XLPE/SWA/PVC) NAYR**G**bY (AL/PVC/SWA/PVC), NA2XR**G**bY (AL/XLPE/SWA/PVC)

Copper or Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Power Cable

Specification:

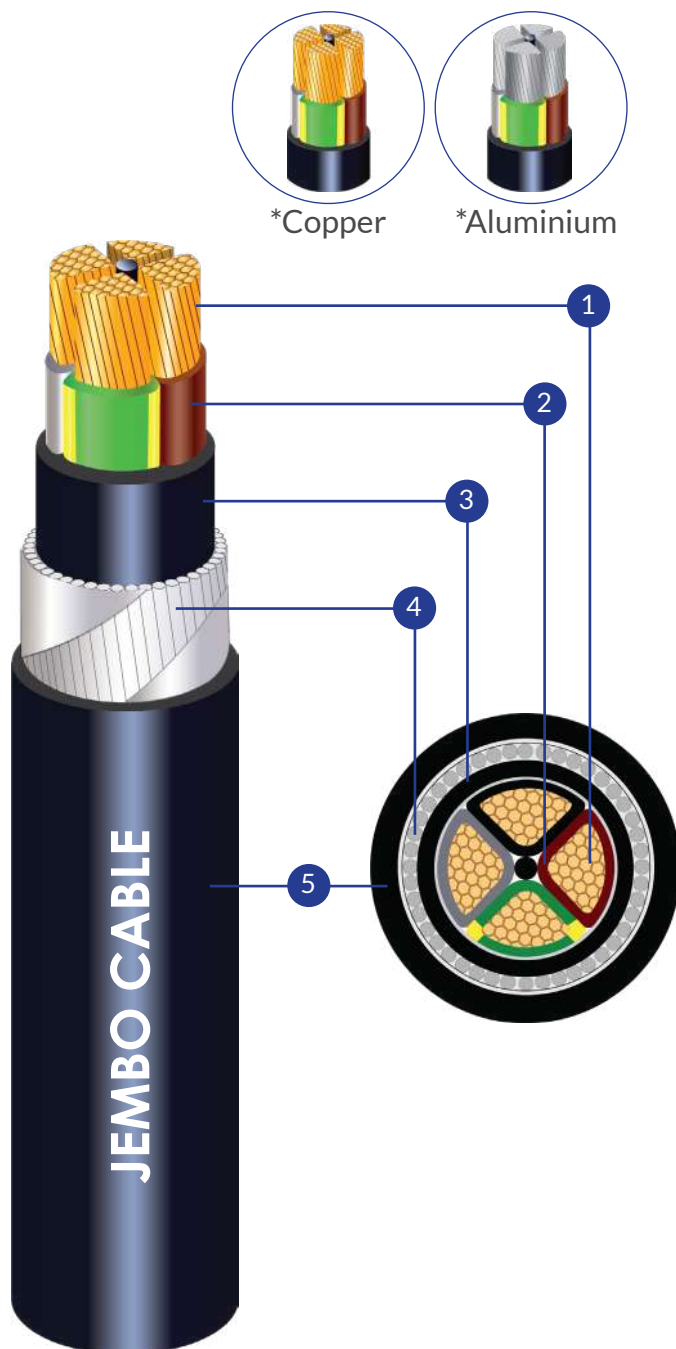
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Steel Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Twin-Cores : Blue, Black
- Three-Cores : System I
Green with yellow stripe (G/Y),
Blue, Brown
System O
Brown, Black, Grey
- Four-Cores : System I
Green with yellow stripe (G/Y),
Brown, Black, Grey
System O
Blue, Brown, Black, Grey
- Five-Cores : Green with yellow stripe (G/Y),
Blue, Brown, Black, Grey

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYRgBY (CU/PVC/SWA/PVC), N2XRgBY (CU/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRgBY	N2XRgBY	Galv. Steel Wire	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE												
1.5	re/rm	1/7	0.8	0.7	0.8	1.8	1.8	14.4	14.0	381	354	1000
2.5	re/rm	1/7	0.8	0.7	0.8	1.8	1.8	15.2	14.8	428	404	1000
4	re/rm	1/7	1.0	0.7	1.25/0.8	1.8	1.8	17.9	15.8	657	475	1000
6	re/rm	1/7	1.0	0.7	1.25	1.8	1.8	19.1	17.9	763	676	1000
10	re/rm	1/7	1.0	0.7	1.25	1.8	1.8	20.9	19.7	938	842	1000
16	rm	7	1.0	0.7	1.25	1.8	1.8	22.9	21.7	1156	1051	1000
25	rm	7	1.2	0.9	1.6	1.8	1.8	27.0	25.8	1689	1561	1000
35	rm	7	1.2	0.9	1.6	1.8	1.8	29.2	28.0	2025	1886	1000
50	rm	19	1.4	1.0	1.6	2.0	1.9	33.0	31.2	2539	2327	1000
70	rm	19	1.4	1.1	2.0	2.1	2.0	38.0	36.6	3508	3294	1000
95	rm	19	1.6	1.1	2.0	2.2	2.2	42.6	40.6	4429	4113	500
120	rm	37	1.6	1.2	2.0	2.3	2.3	46.0	44.4	5183	4907	500
150	rm	37	1.8	1.4	2.5	2.5	2.4	51.6	49.8	6638	6272	300
185	rm	37	2.0	1.6	2.5	2.6	2.6	56.4	54.8	7898	7512	300
240	rm	61	2.2	1.7	2.5	2.8	2.8	63.0	61.0	9807	9318	300
300	rm	61	2.4	1.8	2.5	3.0	2.9	69.0	66.4	11744	11111	300

NAYRgBY (AL/PVC/SWA/PVC), NA2XRgBY (AL/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRgBY	NA2XRgBY	Galv. Steel Wire	NAYRgBY	NA2XRgBY	NAYRgBY	NA2XRgBY	NAYRgBY	NA2XRgBY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE												
25	rm	7	1.2	0.9	1.6	1.8	1.8	27.0	25.8	1386	1259	1000
35	rm	7	1.2	0.9	1.6	1.8	1.8	29.2	28.0	1606	1467	1000
50	rm	19	1.4	1.0	1.6	2.0	1.9	33.0	31.2	1970	1757	1000
70	rm	19	1.4	1.1	2.0	2.1	2.0	37.8	36.4	2651	2463	1000
95	rm	19	1.6	1.1	2.0	2.2	2.2	42.6	40.6	3293	2977	500
120	rm	37	1.6	1.2	2.0	2.3	2.3	45.8	44.2	3735	3460	500
150	rm	37	1.8	1.4	2.5	2.5	2.4	51.6	49.8	4868	4502	300
185	rm	37	2.0	1.6	2.5	2.6	2.6	56.2	54.6	5629	5285	300
240	rm	61	2.2	1.7	2.5	2.8	2.8	63.0	61.0	6888	6399	300
300	rm	61	2.4	1.8	2.5	3.0	2.9	68.6	66.0	8043	7374	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRgBY (CU/PVC/SWA/PVC), N2XRgBY (CU/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRgBY	N2XRgBY	Galv. Steel Wire	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE												
1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	14.9	14.5	416	385	1000
2.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	15.8	15.3	473	444	1000
4	re / rm	1 / 7	1.0	0.7	1.25 / 0.8	1.8	1.8	18.6	16.4	733	530	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	19.9	18.6	859	761	1000
10	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	21.9	20.6	1072	964	1000
16	rm	7	1.0	0.7	1.25	1.8	1.8	24.7	22.7	1478	1234	1000
25	rm	7	1.2	0.9	1.6	1.8	1.8	28.4	27.1	1997	1831	1000
35	rm	7	1.2	0.9	1.6	1.9	1.8	31.0	29.5	2436	2239	1000
50	sm	19	1.4	1.0	2.0/1.6	2.0	2.0	32.2	29.7	2812	2428	1000
70	sm	19	1.4	1.1	2.0	2.2	2.1	35.8	34.3	3589	3411	1000
95	sm	19	1.6	1.1	2.0	2.3	2.2	40.9	38.6	4677	4369	500
120	sm	37	1.6	1.2	2.5/2.0	2.5	2.4	45.7	42.8	5937	5278	500
150	sm	37	1.8	1.4	2.5	2.6	2.6	49.3	47.2	7026	6659	500
185	sm	37	2.0	1.6	2.5	2.8	2.7	54.0	52.1	8435	8039	300
240	sm	37	2.2	1.7	2.5	3.0	2.9	61.9	59.1	10694	10101	300
300	sm	37	2.4	1.8	2.5	3.1	3.1	66.8	64.2	12783	12177	300

NAYRgBY (AL/PVC/SWA/PVC), NA2XRgBY (AL/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRgBY	NA2XRgBY	Galv. Steel Wire	NAYRgBY	NA2XRgBY	NAYRgBY	NA2XRgBY	NAYRgBY	NA2XRgBY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
3 CORE												
25	rm	7	1.2	0.9	1.6	1.8	1.8	28.4	27.1	1544	1377	1000
35	rm	7	1.2	0.9	1.6	1.9	1.8	31.0	29.5	1808	1611	1000
50	sm	19	1.4	1.0	2.0 / 1.6	2.0	2.0	31.5	29.0	1917	1544	1000
70	sm	19	1.4	1.1	2.0	2.2	2.1	34.9	33.5	2309	2110	1000
95	sm	19	1.6	1.1	2.0	2.3	2.2	39.4	37.1	2869	2570	1000
120	sm	37	1.6	1.2	2.5 / 2.0	2.5	2.4	43.4	40.4	3627	2985	500
150	sm	37	1.8	1.4	2.5	2.6	2.6	47.0	45.3	4134	3822	500
185	sm	37	2.0	1.6	2.5	2.8	2.7	51.9	49.9	4908	4527	300
240	sm	37	2.2	1.7	2.5	3.0	2.9	57.2	54.8	5895	5389	300
300	sm	37	2.4	1.8	2.5	3.1	3.1	62.7	59.7	6913	6287	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRGbY (CU/PVC/SWA/PVC), N2XRGbY (CU/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRGbY	N2XRGbY	Galv. Steel Wire	NYRGbY	N2XRGbY	NYRGbY	N2XRGbY	NYRGbY	N2XRGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
4 CORE												
1.5	re / rm	1 / 7	0.8	0.8	0.8	1.8	1.8	15.7	15.3	464	432	1000
2.5	re / rm	1 / 7	0.8	0.8	1.25 / 0.8	1.8	1.8	17.6	16.2	661	503	1000
4	re / rm	1 / 7	1.0	1.0	1.25	1.8	1.8	19.8	18.3	833	727	1000
6	re / rm	1 / 7	1.0	1.0	1.25	1.8	1.8	21.2	19.8	985	870	1000
10	re / rm	1 / 7	1.0	1.0	1.6 / 1.25	1.8	1.8	24.1	22.0	1384	1128	1000
16	rm	7	1.0	1.0	1.6	1.8	1.8	26.5	25.1	1748	1601	1000
25	rm	7	1.2	1.2	1.6	1.9	1.8	30.9	29.2	2398	2201	1000
35	rm	7	1.2	1.2	1.6	2.0	1.9	33.7	32.1	2961	2726	1000
50	sm	19	1.4	1.4	2.0	2.2	2.1	37.2	34.8	3610	3298	1000
70	sm	19	1.4	1.4	2.0	2.3	2.2	40.9	39.3	4603	4341	500
95	sm	19	1.6	1.6	2.5 / 2.0	2.5	2.4	46.6	43.1	6277	5523	500
120	sm	37	1.6	1.6	2.5	2.6	2.5	50.9	48.8	7514	7122	300
150	sm	37	1.8	1.8	2.5	2.8	2.7	54.7	52.7	8836	8395	300
185	sm	37	2.0	2.0	2.5	2.9	2.9	60.8	58.6	10761	10183	300
240	sm	37	2.2	2.2	2.5	3.2	3.1	68.5	66.0	13525	12877	300
300	sm	37	2.4	2.4	3.15 / 2.5	3.4	3.3	75.5	71.2	17085	15481	300

NAYRGbY (AL/PVC/SWA/PVC), NA2XRGbY (AL/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Aluminium conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRGbY	NA2XRGbY	Galv. Steel Wire	NAYRGbY	NA2XRGbY	NAYRGbY	NA2XRGbY	NAYRGbY	NA2XRGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
4 CORE												
25	rm	7	1.2	0.9	1.6	1.9	1.8	30.9	29.2	1793	1597	1000
35	rm	7	1.2	0.9	1.6	2.0	1.9	33.7	32.1	2124	1889	1000
50	sm	19	1.4	1.0	2.0	2.2	2.1	35.9	33.9	2388	2114	1000
70	sm	19	1.4	1.1	2.0	2.3	2.2	40.2	38.6	2915	2658	500
95	sm	19	1.6	1.1	2.5 / 2.0	2.5	2.4	46.1	42.7	3982	3205	500
120	sm	37	1.6	1.2	2.5	2.6	2.5	50.0	47.5	4568	4102	500
150	sm	37	1.8	1.4	2.5	2.8	2.7	54.5	52.4	5276	4836	300
185	sm	37	2.0	1.6	2.5	2.9	2.9	59.9	57.7	6247	5677	300
240	sm	61	2.2	1.7	2.5	3.2	3.1	66.4	63.9	7518	6888	300
300	sm	61	2.4	1.8	3.15 / 2.5	3.4	3.3	73.9	69.6	9613	8009	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRGbY (CU/PVC/SWA/PVC), N2XRGbY (CU/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRGbY	N2XRGbY	Galv. Steel Wire	NYRGbY	N2XRGbY	NYRGbY	N2XRGbY	NYRGbY	N2XRGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
5 CORE												
1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	16.6	16.1	515	478	1000
2.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	18.6	18.1	731	684	1000
4	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	21.1	19.4	938	808	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	22.7	21.1	1124	984	1000
10	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	25.8	24.2	1577	1412	1000
16	rm	7	1.0	0.7	1.6	1.8	1.8	28.5	26.9	2021	1836	1000
25	rm	7	1.2	0.9	1.6	2.0	1.9	33.5	31.7	2811	2567	1000
35	rm	7	1.2	0.9	2.0 / 1.6	2.1	2.0	37.9	34.8	3745	3206	1000
50	rm	19	1.4	1.0	2.0	2.3	2.2	42.9	40.5	4748	4369	1000

NAYRGbY (AL/PVC/SWA/PVC), NA2XRGbY (AL/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRGbY	NA2XRGbY	Galv. Steel Wire	NAYRGbY	NA2XRGbY	NAYRGbY	NA2XRGbY	NAYRGbY	NA2XRGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
5 CORE												
16	rm	7	1.0	0.7	1.6	1.8	1.8	28.5	25.1	1543	1219	1000
25	rm	7	1.2	0.9	1.6	2.0	1.8	33.5	29.2	2055	1597	1000
35	rm	7	1.2	0.9	2.0 / 1.6	2.1	1.9	37.9	32.1	2698	1889	1000
50	rm	19	1.4	1.0	2.0	2.3	2.1	42.9	37.3	3325	2600	500

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRGbY (CU/PVC/SWA/PVC), N2XRGbY (CU/XLPE/SWA/PVC)

Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Control Cable

Specification:

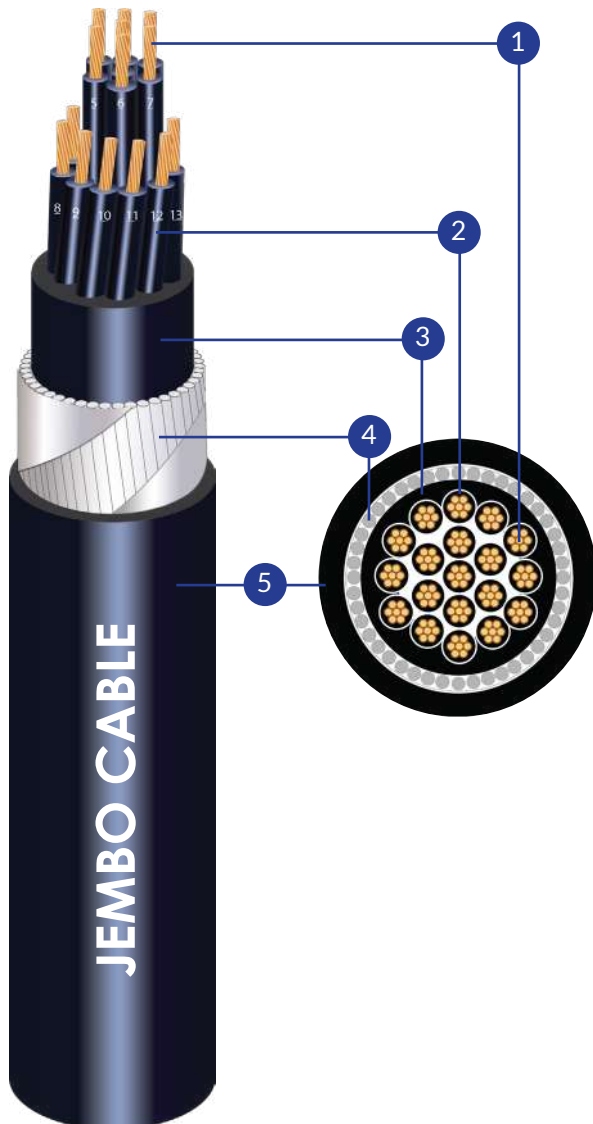
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Steel Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYRgBY (CU/PVC/SWA/PVC), N2XRgBY (CU/XLPE/SWA/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire & Tape Armoured, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYRgBY	N2XRgBY	Galv. Steel Wire	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	NYRgBY	N2XRgBY	
	mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
6	1.5	rm	7	0.8	0.7	1.25	1.8	1.8	18.5	17.9	692	643	1000
	2.5	rm	7	0.8	0.7	1.25	1.8	1.8	19.7	19.1	810	756	1000
	4	rm	7	1.0	0.7	1.25	1.8	1.8	22.4	20.6	1056	910	1000
	6	rm	7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.9	22.4	1410	1111	1000
7	1.5	rm	7	0.8	0.7	1.25	1.8	1.8	18.5	17.9	702	650	1000
	2.5	rm	7	0.8	0.7	1.25	1.8	1.8	19.7	19.1	827	769	1000
	4	rm	7	1.0	0.7	1.25	1.8	1.8	22.4	20.6	1084	934	1000
	6	rm	7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.9	22.4	1451	1148	1000
8	1.5	rm	7	0.8	0.7	1.25	1.8	1.8	19.6	18.9	774	706	1000
	2.5	rm	7	0.8	0.7	1.25	1.8	1.8	20.9	20.2	910	836	1000
	4	rm	7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.6	21.9	1326	1029	1000
	6	rm	7	1.0	0.7	1.6	1.8	1.8	26.6	24.6	1587	1399	1000
10	1.5	rm	7	0.8	0.7	1.25	1.8	1.8	21.7	20.9	906	836	1000
	2.5	rm	7	0.8	0.7	1.6 / 1.25	1.8	1.8	24.0	22.5	1208	992	1000
	4	rm	7	1.0	0.7	1.6	1.8	1.8	27.6	25.2	1585	1364	1000
	6	rm	7	1.0	0.7	1.6	1.9	1.8	30.2	27.6	1933	1677	1000
12	1.5	rm	7	0.8	0.7	1.25	1.8	1.8	22.2	21.4	970	882	1000
	2.5	rm	7	0.8	0.7	1.6	1.8	1.8	24.6	23.7	1286	1192	1000
	4	rm	7	1.0	0.7	1.6	1.8	1.8	28.3	25.8	1698	1460	1000
	6	rm	7	1.0	0.7	1.6	1.9	1.8	31.0	28.3	2100	1808	1000
14	1.5	rm	7	0.8	0.7	1.6 / 1.25	1.8	1.8	23.7	22.1	1176	942	1000
	2.5	rm	7	0.8	0.7	1.6	1.8	1.8	25.5	24.6	1400	1279	1000
	4	rm	7	1.0	0.9	1.6	1.9	1.8	29.7	26.8	1870	1594	1000
	6	rm	7	1.0	0.9	1.6	1.9	1.9	32.3	29.7	2304	1998	1000
16	1.5	rm	7	0.8	0.7	1.6	1.8	1.8	24.6	23.7	1260	1156	1000
	2.5	rm	7	0.8	0.7	1.6	1.8	1.8	26.5	25.6	1507	1390	1000
	4	rm	7	1.0	0.9	1.6	1.9	1.8	31.0	27.9	2059	1740	1000
	6	rm	7	1.0	0.9	1.6	2.0	1.9	34.0	31.0	2541	2205	1000
19	1.5	rm	7	0.8	0.7	1.6	1.8	1.8	25.6	24.6	1371	1237	1000
	2.5	rm	7	0.8	0.7	1.6	1.8	1.8	27.6	26.6	1648	1516	1000
	4	rm	7	1.0	0.7	1.6	1.9	1.8	32.3	29.1	2261	1911	1000
	6	rm	7	1.0	0.7	2.0 / 1.6	2.1	1.9	36.9	32.3	3114	2435	1000
21	1.5	rm	7	0.8	0.7	1.6	1.8	1.8	26.7	25.6	1468	1324	1000
	2.5	rm	7	0.8	0.7	1.6	1.8	1.8	28.8	27.7	1767	1607	1000
	4	rm	7	1.0	0.7	1.6	2.0	1.9	34.0	30.6	2441	2065	1000
	6	rm	7	1.0	0.7	2.0 / 1.6	2.1	2.0	38.6	34.0	3346	2633	1000
24	1.5	rm	7	0.8	0.7	1.6	1.8	1.8	28.8	27.6	1632	1472	1000
	2.5	rm	7	0.8	0.7	1.6	1.9	1.9	31.4	30.2	1999	1820	1000
	4	rm	7	1.0	0.7	2.0 / 1.6	2.1	2.0	38.4	33.4	3067	2334	1000
	6	rm	7	1.0	0.7	2.0	2.3	2.1	42.4	38.4	3827	3287	500
30	1.5	rm	7	0.8	0.7	1.6	1.9	1.8	30.3	28.8	1826	1626	1000
	2.5	rm	7	0.8	0.7	1.6	2.0	1.9	33.1	31.6	2272	2047	1000
	4	rm	7	1.0	0.7	2.0	2.2	2.0	40.5	36.2	3492	2914	500
	6	rm	7	1.0	0.7	2.0	2.3	2.2	44.5	40.5	4361	3767	500
40	1.5	rm	7	0.8	0.7	1.6	2.0	1.9	33.5	31.8	2201	1953	1000
	2.5	rm	7	0.8	0.7	2.0	2.1	2.0	37.8	35.7	3040	2708	1000
	4	rm	7	1.0	0.7	2.0	2.3	2.2	44.8	40.2	4246	3569	500
	6	rm	7	1.0	0.7	2.5 / 2.0	2.5	2.3	51.0	44.8	5872	4612	300
52	1.5	rm	7	0.8	0.7	2.0	2.1	2.1	38.3	36.6	2943	2634	1000
	2.5	rm	7	0.8	0.7	2.0	2.2	2.2	41.9	40.2	3678	3303	500
	4	rm	7	1.0	0.9	2.5 / 2.0	2.5	2.3	51.5	44.6	5654	4332	300
	6	rm	7	1.0	0.9	2.5 / 2.0	2.7	2.5	56.9	51.5	7167	6131	300
61	1.5	rm	7	0.8	0.7	2.0	2.2	2.1	40.4	38.4	3278	2883	500
	2.5	rm	7	0.8	0.7	2.0	2.3	2.2	44.2	42.2	4109	3665	500
	4	rm	7	1.0	0.9	2.5 / 2.0	2.6	2.4	54.3	47.5	6327	4923	300
	6	rm	7	1.0	0.9	2.5	2.8	2.6	60.5	54.3	8135	6886	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYFGbY (CU/PVC/SFA/PVC) & NYRGbY (CU/PVC/SWA/PVC)

Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire & Tape Armoured or Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Power Cable

Specification:

SPLN D3.010-3 : 2014

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged.

Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Flat Steel Wire & Tape or Galvanized Steel Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

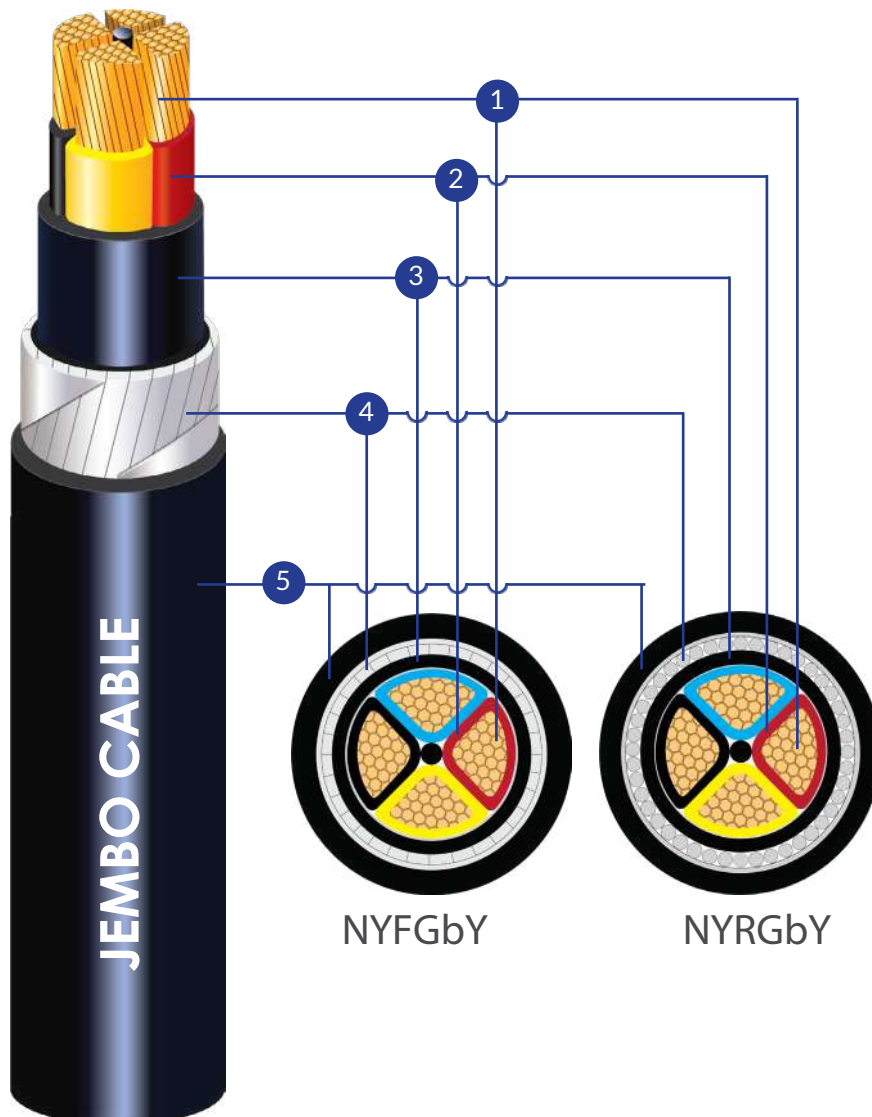
Identification of Cores:

Four-Cores : Red, Yellow, Black, Blue

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen



NYFGbY & NYRGbY SPLN D3.010-3-2014

0.6/1 (1.2)kV : Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire & Tape Armoured or Galvanized Steel Wire & Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Width x Thick Armour	Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYFGbY	NYRGbY	Galv. Flat Steel Wire	Galv. Steel Wire	NYFGbY	NYRGbY	NYFGbY	NYRGbY	NYFGbY	NYRGbY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
4 CORE													
50	sm	19	1.4	1.4	4 x 0.8	2.0	2.0	2.0	34.4	36.8	3144	3575	1000
70	sm	19	1.4	1.4	4 x 0.8	2.0	2.1	2.1	38.5	40.5	4169	4564	1000
95	sm	19	1.6	1.6	4 x 0.8	2.5	2.3	2.3	43.2	46.2	5407	6234	1000
120	sm	37	1.6	1.6	4 x 0.8	2.5	2.4	2.4	47.5	50.5	6552	7466	500
150	sm	37	1.8	1.8	4 x 0.8	2.5	2.6	2.6	51.3	54.3	7834	8785	300

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	Current Carrying Capacity in Air		Short Circuit Current at 1 Sec	AC Voltage Test
Nom. Cross Section Area	Max. Dc Resistance at 20°C	Max. AC Resistance at 70°C (R)	Min. Insulation Resistance at 20°C		at 35°C	at 40°C		
mm ²	Ohm/km	Ohm/km	M. Ohm.km	Ohm/km	mm	mm	kA	kV/5 min
50	0.387	0.463	30	0.081	156	142	5.19	3.5
70	0.268	0.321	30	0.079	198	181	7.49	3.5
95	0.193	0.232	30	0.078	241	221	10.41	3.5
120	0.153	0.184	30	0.076	275	252	13.13	3.5
150	0.124	0.150	20	0.076	318	291	16.20	3.5

NYR(AI)Y (CU/PVC/AWA/PVC) or VV72, N2XR(AI)Y (CU/XLPE/AWA/PVC) or YJV72 NAYR(AI)Y (AL/PVC/AWA/PVC) or VLV72, NA2XR(AL)Y (AL/XLPE/AWA/PVC) or YJLV72

Copper or Aluminium Conductor, PVC or XLPE Insulated, Aluminium Wire Armoured,
PVC Sheathed

Power Cable

Specification:

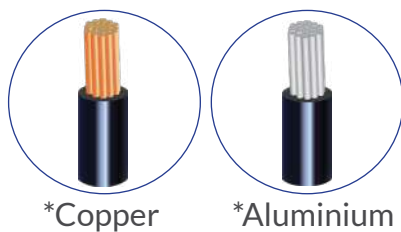
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



Construction:

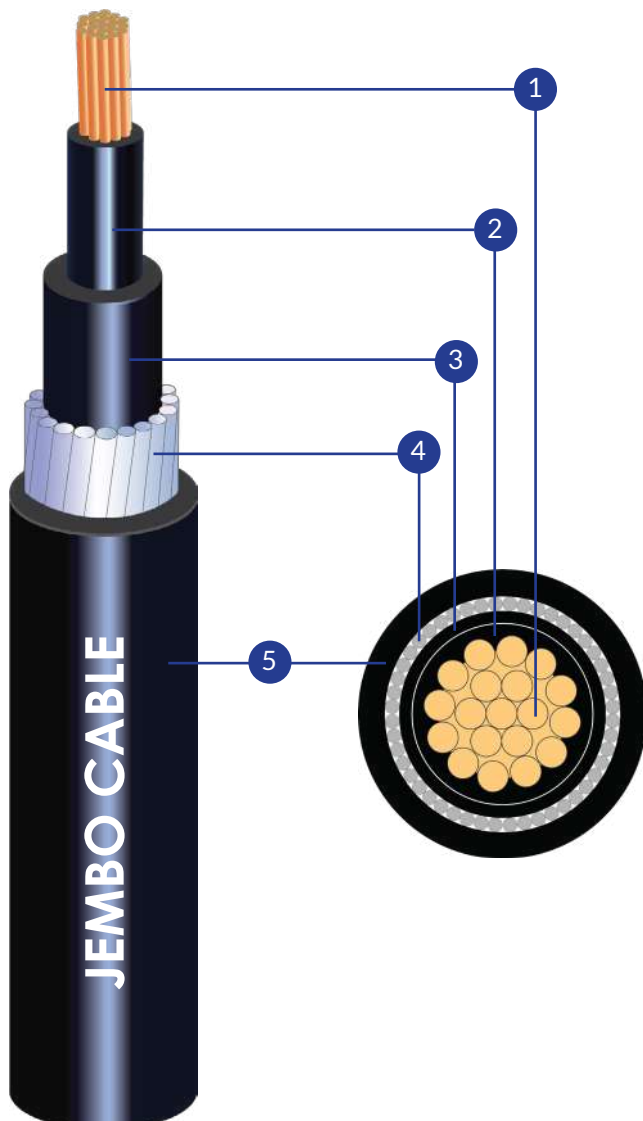
1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Aluminium Wire
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen



NYR(AI)Y (CU/PVC/AWA/PVC) or VV72, N2XR(AI)Y (CU/XLPE/AWA/PVC) or YJV72

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Aluminium Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYR(AI)Y	N2XR(AI)Y	Aluminium Wire	NYR(AI)Y	N2XR(AI)Y	NYR(AI)Y	N2XR(AI)Y	NYR(AI)Y	N2XR(AI)Y	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
1 CORE												
10	rm	7	1.0	0.7	0.8	1.4	1.4	12.8	12.2	266	242	1000
16	rm	7	1.0	0.7	0.8	1.4	1.4	13.8	13.2	340	313	1000
25	rm	7	1.2	0.9	0.8	1.4	1.4	15.5	14.9	465	430	1000
35	rm	7	1.2	0.9	1.25	1.4	1.4	17.5	16.9	621	581	1000
50	rm	19	1.4	1.0	1.25	1.4	1.4	19.2	18.4	775	720	1000
70	rm	19	1.4	1.1	1.25	1.5	1.5	21.2	20.6	1012	958	1000
95	rm	19	1.6	1.1	1.6	1.6	1.5	24.3	23.1	1374	1275	1000
120	rm	37	1.6	1.2	1.6	1.6	1.6	25.9	25.1	1633	1546	1000
150	rm	37	1.8	1.4	1.6	1.7	1.7	28.0	27.2	1959	1864	1000
185	rm	37	2.0	1.6	1.6	1.7	1.7	30.3	29.5	2367	2250	1000
240	rm	61	2.2	1.7	1.6	1.8	1.8	33.4	32.4	3005	2856	1000
300	rm	61	2.4	1.8	2.0	1.9	1.9	37.6	36.4	3786	3603	1000
400	rm	61	2.6	2.0	2.0	2.1	2.0	41.4	40.0	4737	4495	500
500	rm	61	2.8	2.2	2.0	2.2	2.1	45.3	43.9	5894	5613	500
630	rm	127	2.8	2.4	2.5	2.3	2.2	50.8	49.8	7482	7225	300

NAYR(AI)Y (AL/PVC/AWA/PVC) or VLV72, NA2XR(AI)Y (AL/XLPE/AWA/PVC) or YJLV72

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Aluminium Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYR(AI)Y	NA2XR(AI)Y	Aluminium Wire	NAYR(AI)Y	NA2XR(AI)Y	NAYR(AI)Y	NA2XR(AI)Y	NAYR(AI)Y	NA2XR(AI)Y	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
1 CORE												
25	rm	7	1.2	0.9	0.8	1.4	1.4	15.5	14.9	314	279	1000
35	rm	7	1.2	0.9	1.25	1.4	1.4	17.5	16.9	411	372	1000
50	rm	19	1.4	1.0	1.25	1.4	1.4	19.2	18.4	491	435	1000
70	rm	19	1.4	1.1	1.25	1.5	1.5	21.1	20.5	599	546	1000
95	rm	19	1.6	1.1	1.6	1.6	1.5	24.3	23.1	805	707	1000
120	rm	37	1.6	1.2	1.6	1.6	1.6	25.8	25.0	913	827	1000
150	rm	37	1.8	1.4	1.6	1.7	1.7	28.0	27.2	1073	979	1000
185	rm	37	2.0	1.6	1.6	1.7	1.7	30.2	29.4	1259	1142	1000
240	rm	61	2.2	1.7	1.6	1.8	1.8	33.4	32.4	1546	1397	1000
300	rm	61	2.4	1.8	2.0	1.9	1.9	37.4	36.2	1950	1760	1000
400	rm	61	2.6	2.0	2.0	2.1	2.0	41.2	39.8	2379	2138	500
500	rm	61	2.8	2.2	2.0	2.2	2.1	45.1	43.7	2873	2593	500
630	rm	127	2.8	2.4	2.5	2.3	2.2	50.6	49.6	3559	3317	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRY (CU/PVC/SWA/PVC) or VV32, N2XRY (CU/XLPE/SWA/PVC) or YJV32 **NAYRY (AL/PVC/SWA/PVC) or VLV32, NA2XRY (AL/XLPE/SWA/PVC) or YJLV32**

Copper or Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Power Cable

Specification:

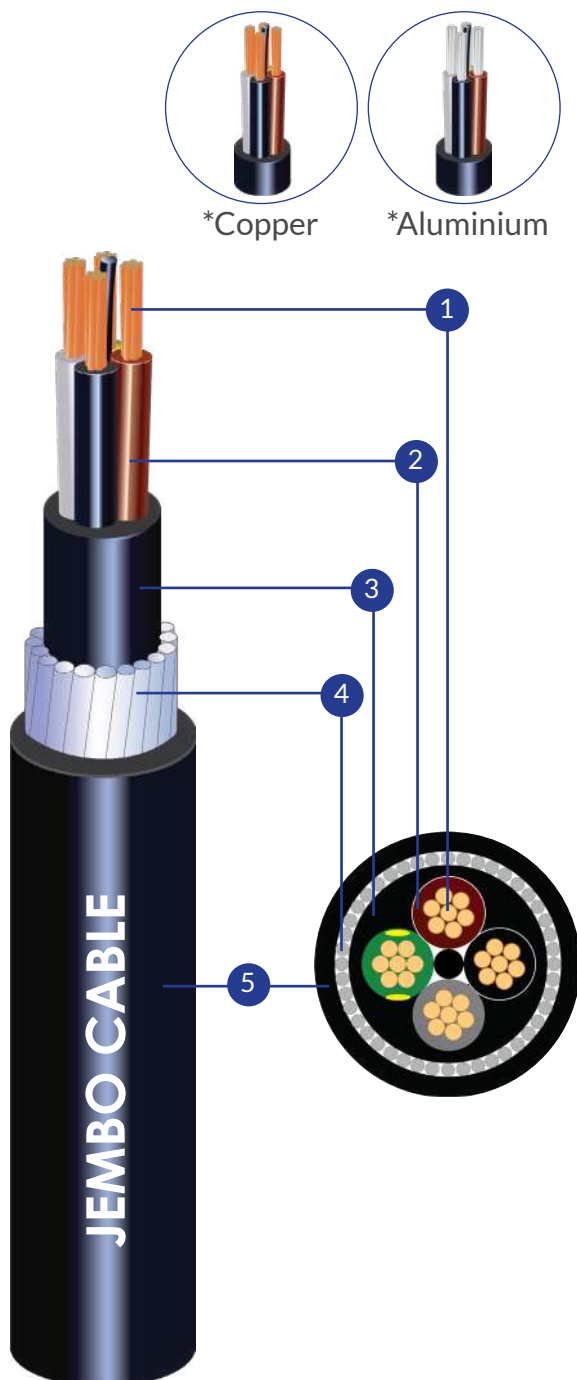
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Steel Wire
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Twin-Cores : Blue, Black
- Three-Cores : System I
Green with yellow stripe (G/Y),
Blue, Brown
System O
Brown, Black, Grey
- Four-Cores : System I
Green with yellow stripe (G/Y),
Brown, Black, Grey
System O
Blue, Brown, Black, Grey
- Five-Cores : Green with yellow stripe (G/Y),
Blue, Brown, Black, Grey

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYRY (CU/PVC/SWA/PVC) or VV32, N2XRY (CU/XLPE/SWA/PVC) or YJV32

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRY	N2XRY	Galv. Steel Wire	NYRY	N2XRY	NYRY	N2XRY	NYRY	N2XRY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
2 CORE												
1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	14.0	13.6	342	317	1000
2.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	14.8	14.4	387	364	1000
4	re / rm	1 / 7	1.0	0.7	1.25 / 0.8	1.8	1.8	17.5	15.4	607	432	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	18.7	17.5	708	625	1000
10	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	20.5	19.3	876	785	1000
16	rm	7	1.0	0.7	1.25	1.8	1.8	22.5	21.3	1087	987	1000
25	rm	7	1.2	0.9	1.6	1.8	1.8	26.6	25.4	1606	1483	1000
35	rm	7	1.2	0.9	1.6	1.8	1.8	28.8	27.6	1935	1800	1000
50	rm	19	1.4	1.0	1.6	1.9	1.9	32.4	30.8	2422	2230	1000
70	rm	19	1.4	1.1	2.0	2.1	2.0	37.6	36.2	3390	3180	1000
95	rm	19	1.6	1.1	2.0	2.2	2.1	42.2	40.0	4295	3968	500
120	rm	37	1.6	1.2	2.0	2.3	2.3	45.6	44.0	5038	4767	500
150	rm	37	1.8	1.4	2.5	2.5	2.4	51.2	49.4	6475	6114	300
185	rm	37	2.0	1.6	2.5	2.6	2.6	56.0	54.4	7719	7338	300
240	rm	61	2.2	1.7	2.5	2.8	2.7	62.6	60.4	9606	9095	300
300	rm	61	2.4	1.8	2.5	3.0	2.9	68.6	66.0	11524	10899	300

NAYRY (AL/PVC/SWA/PVC) or VLV32, NA2XRY (AL/XLPE/SWA/PVC) or YJLV32

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRY	NA2XRY	Galv. Steel Wire	NAYRY	NA2XRY	NAYRY	NA2XRY	NAYRY	NA2XRY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
2 CORE												
25	rm	7	1.2	0.9	1.6	1.8	1.8	26.6	25.4	1304	1181	1000
35	rm	7	1.2	0.9	1.6	1.8	1.8	28.8	27.6	1516	1381	1000
50	rm	19	1.4	1.0	1.6	1.9	1.9	32.4	30.8	1853	1661	1000
70	rm	19	1.4	1.1	2.0	2.1	2.0	37.4	36.0	2533	2350	1000
95	rm	19	1.6	1.1	2.0	2.2	2.1	42.2	40.0	3159	2831	500
120	rm	37	1.6	1.2	2.0	2.3	2.3	45.4	43.8	3591	3321	500
150	rm	37	1.8	1.4	2.5	2.5	2.4	51.2	49.4	4705	4344	300
185	rm	37	2.0	1.6	2.5	2.6	2.6	55.8	54.2	5450	5112	300
240	rm	37	2.2	1.7	2.5	2.8	2.7	62.6	60.4	6687	6177	300
300	rm	37	2.4	1.8	2.5	3.0	2.9	68.2	65.6	7824	7163	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRY (CU/PVC/SWA/PVC) or VV32, N2XRY (CU/XLPE/SWA/PVC) or YJV32

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRY	N2XRY	Galv. Steel Wire	NYRY	N2XRY	NYRY	N2XRY	NYRY	N2XRY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
3 CORE												
1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	14.5	14.1	375	346	1000
2.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	15.4	14.9	430	402	1000
4	re / rm	1 / 7	1.0	0.7	1.25 / 0.8	1.8	1.8	18.2	16.0	680	484	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	19.5	18.2	801	707	1000
10	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	21.5	20.2	1008	903	1000
16	rm	7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.3	22.3	1404	1166	1000
25	rm	7	1.2	0.9	1.6	1.8	1.8	28.0	26.7	1910	1748	1000
35	rm	7	1.2	0.9	1.6	1.9	1.8	30.6	29.1	2340	2148	1000
50	sm	19	1.4	1.0	2.0 / 1.6	2.0	1.9	31.8	29.1	2713	2323	1000
70	sm	19	1.4	1.1	2.0	2.1	2.1	35.2	33.9	3462	3305	1000
95	sm	19	1.6	1.1	2.0	2.3	2.2	40.5	38.2	4550	4249	500
120	sm	37	1.6	1.2	2.5 / 2.0	2.4	2.3	45.1	42.2	5772	5124	500
150	sm	37	1.8	1.4	2.5	2.6	2.5	48.9	46.6	6871	6490	500
185	sm	37	2.0	1.6	2.5	2.7	2.7	53.4	51.7	8239	7875	300
240	sm	37	2.2	1.7	2.5	2.9	2.9	61.3	58.7	10469	9914	300
300	sm	37	2.4	1.8	2.5	3.1	3.0	66.4	63.6	12570	11943	300

NAYRY (AL/PVC/SWA/PVC) or VLV32, NA2XRY (AL/XLPE/SWA/PVC) or YJLV32

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRY	NA2XRY	Galv. Steel Wire	NAYRY	NA2XRY	NAYRY	NA2XRY	NAYRY	NA2XRY	
mm²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	
3 CORE												
25	rm	7	1.2	0.9	1.6	1.8	1.8	28.0	26.7	1457	1295	1000
35	rm	7	1.2	0.9	1.6	1.9	1.8	30.6	29.1	1712	1520	1000
50	sm	19	1.4	1.0	2.0 / 1.6	2.0	1.9	31.1	28.4	1821	1444	1000
70	sm	19	1.4	1.1	2.0	2.1	2.1	34.3	33.1	2187	2008	1000
95	sm	19	1.6	1.1	2.0	2.3	2.2	39.0	36.7	2750	2457	1000
120	sm	37	1.6	1.2	2.5 / 2.0	2.4	2.3	42.8	39.8	3474	2842	500
150	sm	37	1.8	1.4	2.5	2.6	2.5	46.6	44.7	3990	3661	500
185	sm	37	2.0	1.6	2.5	2.7	2.7	51.3	49.5	4724	4372	300
240	sm	37	2.2	1.7	2.5	2.9	2.9	56.6	54.4	5693	5219	300
300	sm	37	2.4	1.8	2.5	3.1	3.0	62.3	59.1	6719	6074	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRY (CU/PVC/SWA/PVC) or VV32, N2XRY (CU/XLPE/SWA/PVC) or YJV32

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRY	N2XRY	Galv. Steel Wire	NYRY	N2XRY	NYRY	N2XRY	NYRY	N2XRY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
4 CORE												
1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	15.3	14.9	421	390	1000
2.5	re / rm	1 / 7	0.8	0.7	1.25 / 0.8	1.8	1.8	17.2	15.8	611	458	1000
4	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	19.4	17.9	776	674	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	20.8	19.4	923	812	1000
10	re / rm	1 / 7	1.0	0.7	1.6 / 1.25	1.8	1.8	23.7	21.6	1312	1063	1000
16	rm	7	1.0	0.7	1.6	1.8	1.8	26.1	24.7	1668	1526	1000
25	rm	7	1.2	0.9	1.6	1.9	1.8	30.5	28.8	2303	2112	1000
35	rm	7	1.2	0.9	1.6	2.0	1.9	33.3	31.7	2857	2627	1000
50	sm	19	1.4	1.0	2.0	2.1	2.1	36.6	34.4	3478	3191	1000
70	sm	19	1.4	1.1	2.0	2.3	2.2	40.5	38.9	4475	4218	500
95	sm	19	1.6	1.1	2.5 / 2.0	2.5	2.3	46.2	42.5	6131	5368	500
120	sm	37	1.6	1.2	2.5	2.6	2.5	50.5	48.4	7354	6968	300
150	sm	37	1.8	1.4	2.5	2.7	2.7	54.1	52.3	8638	8229	300
185	sm	37	2.0	1.6	2.5	2.9	2.8	60.4	58.0	10568	9971	300
240	sm	37	2.2	1.7	2.5	3.1	3.1	67.9	65.6	13275	12667	300
300	sm	37	2.4	1.8	3.15 / 2.5	3.4	3.2	75.1	70.6	16844	15221	300

NAYRY (AL/PVC/SWA/PVC) or VLV32, NA2XRY (AL/XLPE/SWA/PVC) or YJLV32

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYRY	NA2XRY	Galv. Steel Wire	NAYRY	NA2XRY	NAYRY	NA2XRY	NAYRY	NA2XRY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
4 CORE												
25	rm	7	1.2	0.9	1.6	1.9	1.8	30.5	28.8	1698	1507	1000
35	rm	7	1.2	0.9	1.6	2.0	1.9	33.3	31.7	2020	1790	1000
50	sm	19	1.4	1.0	2.0	2.1	2.1	35.3	33.5	2263	2011	1000
70	sm	19	1.4	1.1	2.0	2.3	2.2	39.8	38.2	2793	2539	1000
95	sm	19	1.6	1.1	2.5 / 2.0	2.5	2.3	45.7	42.1	3840	3054	500
120	sm	37	1.6	1.2	2.5	2.6	2.5	49.6	47.1	4414	3955	500
150	sm	37	1.8	1.4	2.5	2.7	2.7	53.9	52.0	5082	4673	300
185	sm	37	2.0	1.6	2.5	2.9	2.8	59.5	57.1	6061	5470	300
240	sm	37	2.2	1.7	2.5	3.1	3.1	65.8	63.5	7281	6689	300
300	sm	37	2.4	1.8	3.15 / 2.5	3.4	3.2	73.5	69.0	9384	7759	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRY (CU/PVC/SWA/PVC) or VV32, N2XRY (CU/XLPE/SWA/PVC) or YJV32

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYRY	N2XRY	Galv. Steel Wire	NYRY	N2XRY	NYRY	N2XRY	NYRY	N2XRY	
mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m

5 CORE

1.5	re / rm	1 / 7	0.8	0.7	0.8	1.8	1.8	16.2	15.7	468	433	1000
2.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	18.2	17.7	678	632	1000
4	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	20.7	19.0	876	752	1000
6	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	22.3	20.7	1056	922	1000
10	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	25.4	23.8	1499	1339	1000
16	rm	7	1.0	0.7	1.6	1.8	1.8	28.1	26.5	1933	1754	1000
25	rm	7	1.2	0.9	1.6	1.9	1.9	32.9	31.3	2692	2469	1000
35	rm	7	1.2	0.9	2.0 / 1.6	2.1	2.0	37.5	34.4	3627	3098	1000
50	rm	19	1.4	1.0	2.0	2.2	2.2	42.3	40.1	4594	4243	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYRY (CU/PVC/SWA/PVC) or KVV32, N2XRY (CU/XLPE/SWA/PVC) or KYJV32

Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

Control Cable

Specification:

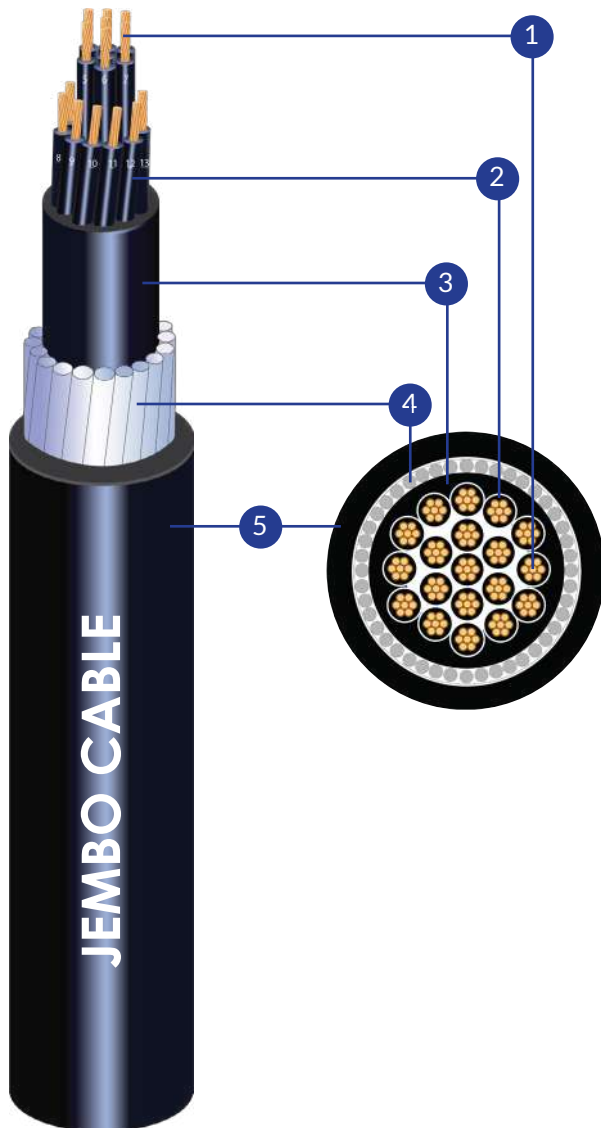
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Galvanized Steel Wire
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYRY (CU/PVC/SWA/PVC) or KVV32, N2XRY (CU/XLPE/SWA/PVC) or KYJV32

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Wire Armoured, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Dia of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYRY	N2XRY	Galv. Steel Wire	NYRY	N2XRY	NYRY	N2XRY	NYRY	N2XRY	
	mm ²	-	-	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	m
6	1.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	18.1	17.5	639	592	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	19.3	18.7	753	701	1000
	4	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	22.0	20.2	990	850	1000
	6	re / rm	1 / 7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.5	22.0	1335	1045	1000
7	1.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	18.1	17.5	650	599	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	19.3	18.7	770	714	1000
	4	re / rm	1 / 7	1.0	0.7	1.25	1.8	1.8	22.0	20.2	1017	873	1000
	6	re / rm	1 / 7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.5	22.0	1376	1081	1000
8	1.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	19.2	18.5	717	652	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	20.5	19.8	849	777	1000
	4	re / rm	1 / 7	1.0	0.7	1.6 / 1.25	1.8	1.8	24.2	21.5	1252	964	1000
	6	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	26.2	24.2	1507	1325	1000
10	1.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	21.3	20.5	842	775	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6 / 1.25	1.8	1.8	23.6	22.1	1136	926	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	27.2	24.8	1501	1288	1000
	6	re / rm	1 / 7	1.0	0.7	1.6	1.9	1.8	29.8	27.2	1840	1593	1000
12	1.5	re / rm	1 / 7	0.8	0.7	1.25	1.8	1.8	21.8	21.0	904	819	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	24.2	23.3	1212	1121	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	27.9	25.4	1611	1382	1000
	6	re / rm	1 / 7	1.0	0.7	1.6	1.9	1.8	30.6	27.9	2005	1721	1000
14	1.5	re / rm	1 / 7	0.8	0.7	1.6 / 1.25	1.8	1.8	23.3	21.7	1106	876	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	25.1	24.2	1323	1205	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	1.8	1.8	29.1	26.4	1765	1513	1000
	6	re / rm	1 / 7	1.0	0.7	1.6	1.9	1.8	31.9	29.1	2204	1894	1000
16	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	24.2	23.3	1186	1085	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	26.1	25.2	1426	1313	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	1.9	1.8	30.6	27.5	1964	1655	1000
	6	re / rm	1 / 7	1.0	0.7	1.6	2.0	1.9	33.6	30.6	2436	2110	1000
19	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	25.2	24.2	1294	1163	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	27.2	26.2	1564	1435	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	1.9	1.8	31.9	28.7	2161	1821	1000
	6	re / rm	1 / 7	1.0	0.7	2.0 / 1.6	2.1	1.9	36.5	31.9	2999	2335	1000
21	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	26.3	25.2	1387	1247	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	28.4	27.3	1678	1522	1000
	4	re / rm	1 / 7	1.0	0.7	1.6	2.0	1.9	33.6	30.2	2336	1971	1000
	6	re / rm	1 / 7	1.0	0.7	2.0 / 1.6	2.1	2.0	38.2	33.6	3225	2528	1000
24	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.8	1.8	28.4	27.2	1543	1388	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.9	1.9	31.0	29.8	1903	1728	1000
	4	re / rm	1 / 7	1.0	0.7	2.0 / 1.6	2.1	1.9	38.0	32.8	2947	2216	1000
	6	re / rm	1 / 7	1.0	0.7	2.0	2.2	2.1	41.8	38.0	3675	3167	500
30	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.9	1.8	29.9	28.4	1733	1538	1000
	2.5	re / rm	1 / 7	0.8	0.7	1.6	1.9	1.9	32.5	31.2	2155	1950	1000
	4	re / rm	1 / 7	1.0	0.7	2.0	2.2	2.0	40.1	35.8	3365	2801	500
	6	re / rm	1 / 7	1.0	0.7	2.0	2.3	2.2	44.1	40.1	4221	3640	500
40	1.5	re / rm	1 / 7	0.8	0.7	1.6	1.9	1.9	32.9	31.4	2082	1855	1000
	2.5	re / rm	1 / 7	0.8	0.7	2.0	2.1	2.0	37.4	35.3	2922	2596	1000
	4	re / rm	1 / 7	1.0	0.7	2.0	2.3	2.1	44.4	39.6	4105	3425	500
	6	re / rm	1 / 7	1.0	0.7	2.5 / 2.0	2.5	2.3	50.6	44.4	5711	4472	300
52	1.5	re / rm	1 / 7	0.8	0.7	2.0	2.1	2.0	37.9	36.0	2824	2503	1000
	2.5	re / rm	1 / 7	0.8	0.7	2.0	2.2	2.2	41.5	39.8	3547	3177	500
	4	re / rm	1 / 7	1.0	0.7	2.5 / 2.0	2.5	2.3	51.1	44.2	5491	4192	300
	6	re / rm	1 / 7	1.0	0.7	2.5	2.7	2.5	56.5	51.1	6986	5968	300
61	1.5	re / rm	1 / 7	0.8	0.7	2.0	2.2	2.1	40.0	38.0	3152	2763	1000
	2.5	re / rm	1 / 7	0.8	0.7	2.0	2.3	2.2	43.8	41.8	3970	3533	500
	4	re / rm	1 / 7	1.0	0.7	2.5 / 2.0	2.6	2.4	53.9	47.1	6155	4773	300
	6	re / rm	1 / 7	1.0	0.7	2.5	2.8	2.6	60.1	53.9	7943	6714	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYBY (CU/PVC/DSTA/PVC) or VV22, N2XBY (CU/XLPE/DSTA/PVC) or YJV22 NAYBY (AL/PVC/DSTA/PVC) or VLV22, NA2XBY (AL/XLPE/DSTA/PVC) or YJLV22

Copper or Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC sheathed

Power Cable

Specification:

SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 kV (1.2 kV)

Application:

Power cable for indoor and outdoor installations and is planted directly in the ground, preferably used where considerable mechanical stress must be envisaged



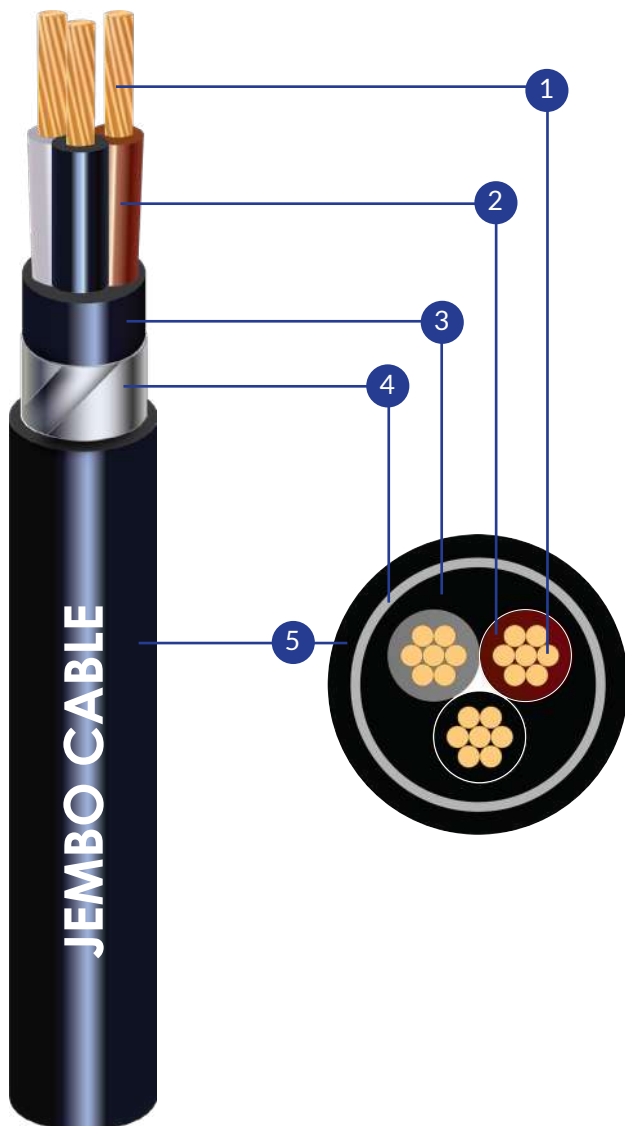
Construction:

1. Conductor : Annealed Copper or Aluminium Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Double Galvanized Steel Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Twin-Cores : Blue, Black
- Three-Cores : System I
Green with yellow stripe (G/Y),
Blue, Brown
System O
Brown, Black, Grey
- Four-Cores : System I
Green with yellow stripe (G/Y),
Brown, Black, Grey
System O
Blue, Brown, Black, Grey
- Five-Cores : Green with yellow stripe (G/Y),
Blue, Brown, Black, Grey

Other colours are available on request



Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYBY (CU/PVC/DSTA/PVC) or VV22, N2XBY (CU/XLPE/DSTA/PVC) or YJV22

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYBY	N2XBY	Galv. Steel Tape	NYBY	N2XBY	NYBY	N2XBY	NYBY	N2XBY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE												
1.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	13.4	13.0	294	238	1000
2.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	14.2	13.8	338	278	1000
4	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	16.0	14.8	436	336	1000
6	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	17.2	16.0	519	410	1000
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	19.0	17.8	664	541	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	21.0	19.8	855	716	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	24.4	23.2	1189	1019	1000
35	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	26.6	25.4	1473	1284	1000
50	rm	19	1.4	1.0	2 x 0.3	1.9	1.8	30.2	28.4	1893	1637	1000
70	rm	19	1.4	1.1	2 x 0.3	2.0	1.9	34.4	33.0	2525	2256	1000
95	rm	19	1.6	1.1	2 x 0.5 / 2 x 0.3	2.1	2.0	39.8	37.0	3558	2935	1000
120	rm	37	1.6	1.2	2 x 0.5	2.2	2.2	43.2	41.6	4248	4003	500
150	rm	37	1.8	1.4	2 x 0.5	2.4	2.3	47.8	46.0	5171	4867	500
185	rm	37	2.0	1.6	2 x 0.5	2.5	2.5	52.6	51.0	6285	5959	300
240	rm	61	2.2	1.7	2 x 0.5	2.7	2.6	59.2	57.0	8026	7565	300
300	rm	61	2.4	1.8	2 x 0.5	2.9	2.8	65.2	62.6	9787	9206	300

NAYBY (AL/PVC/DSTA/PVC) or VLV22, NA2XBY (AL/XLPE/DSTA/PVC) or YJLV22

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYBY	NA2XBY	Galv. Steel Tape	NAYBY	NA2XBY	NAYBY	NA2XBY	NAYBY	NA2XBY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m
2 CORE												
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	18.8	17.6	534	462	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	21.0	19.8	664	582	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	24.4	23.2	887	785	1000
35	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	26.6	25.4	1054	941	1000
50	sm	19	1.4	1.0	2 x 0.3	1.9	1.8	30.2	28.4	1324	1153	1000
70	sm	19	1.4	1.1	2 x 0.3	2.0	1.9	34.2	32.8	1691	1524	1000
95	sm	19	1.6	1.1	2 x 0.5 / 2 x 0.3	2.1	2.1	39.8	37.0	2422	1928	1000
120	sm	37	1.6	1.2	2 x 0.5	2.2	2.2	43.0	41.4	2797	2553	500
150	sm	37	1.8	1.4	2 x 0.5	2.4	2.3	47.8	46.0	3401	3097	500
185	sm	37	2.0	1.6	2 x 0.5	2.5	2.5	52.4	50.8	4053	3729	300
240	sm	37	2.2	1.7	2 x 0.5	2.7	2.6	59.2	57.0	5107	4647	300
300	sm	37	2.4	1.8	2 x 0.5	2.9	2.8	64.8	62.2	6081	5504	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYBY (CU/PVC/DSTA/PVC) or VV22, N2XBY (CU/XLPE/DSTA/PVC) or YJV22

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYBY	N2XBY	Galv. Steel Tape	NYBY	N2XBY	NYBY	N2XBY	NYBY	N2XBY	
mm²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	
3 CORE												
1.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	13.9	13.5	324	299	1000
2.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	14.8	14.3	379	351	1000
4	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	16.7	15.4	496	427	1000
6	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	18.0	16.7	600	524	1000
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	20.0	18.7	785	698	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	22.1	20.8	1030	932	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	25.8	24.5	1457	1332	1000
35	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	28.2	26.9	1830	1689	1000
50	sm	19	1.4	1.0	2 x 0.3	1.9	1.9	28.6	26.9	2003	1861	1000
70	sm	19	1.4	1.1	2 x 0.3	2.1	2.0	32.2	30.7	2692	2534	1000
95	sm	19	1.6	1.1	2 x 0.5	2.2	2.2	38.1	36.0	3859	3619	1000
120	sm	37	1.6	1.2	2 x 0.5	2.3	2.3	41.7	40.0	4658	4428	500
150	sm	37	1.8	1.4	2 x 0.5	2.5	2.4	45.5	43.2	5646	5314	500
185	sm	37	2.0	1.6	2 x 0.5	2.6	2.6	50.0	48.3	6880	6569	500
240	sm	37	2.2	1.7	2 x 0.5	2.8	2.8	57.9	55.3	8902	8428	300
300	sm	37	2.4	1.8	2 x 0.5	3.0	2.9	63.0	60.2	10874	10329	300

NAYBY (AL/PVC/DSTA/PVC) or VLV22, NA2XBY (AL/XLPE/DSTA/PVC) or YJLV22

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYBY	NA2XBY	Galv. Steel Tape	NAYBY	NA2XBY	NAYBY	NA2XBY	NAYBY	NA2XBY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	
3 CORE												
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	19.7	18.4	593	508	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	22.1	20.8	744	645	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	25.8	24.5	1004	879	1000
35	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	28.2	26.9	1202	1061	1000
50	sm	19	1.4	1.0	2 x 0.3	1.9	1.9	27.9	26.2	1130	991	1000
70	sm	19	1.4	1.1	2 x 0.3	2.1	2.0	31.3	29.9	1433	1280	1000
95	sm	19	1.6	1.1	2 x 0.5	2.2	2.2	36.6	34.5	2084	1853	1000
120	sm	37	1.6	1.2	2 x 0.5	2.3	2.3	39.4	37.6	2401	2183	1000
150	sm	37	1.8	1.4	2 x 0.5	2.5	2.4	43.2	41.3	2847	2574	500
185	sm	37	2.0	1.6	2 x 0.5	2.6	2.6	47.9	46.1	3448	3151	500
240	sm	37	2.2	1.7	2 x 0.5	2.8	2.8	53.2	51.0	4249	3864	300
300	sm	37	2.4	1.8	2 x 0.5	3.0	2.9	58.9	55.7	5155	4587	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYBY (CU/PVC/DSTA/PVC) or VV22, N2XBY (CU/XLPE/DSTA/PVC) or YJV22

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYBY	N2XBY	Galv. Steel Tape	NYBY	N2XBY	NYBY	N2XBY	NYBY	N2XBY	
mm²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE												
1.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	14.7	14.3	370	338	1000
2.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	15.7	15.2	438	403	1000
4	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	17.9	16.4	583	498	1000
6	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	19.3	17.9	714	620	1000
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	21.5	20.1	949	841	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	23.9	22.5	1263	1139	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	28.1	26.6	1808	1650	1000
35	rm	7	1.2	0.9	2 x 0.3	1.9	1.8	30.9	29.3	2303	2110	1000
50	sm	19	1.4	1.0	2 x 0.3	2.0	2.0	33.4	31.2	2655	2425	1000
70	sm	19	1.4	1.1	2 x 0.5	2.2	2.1	38.1	36.5	3784	3558	1000
95	sm	19	1.6	1.1	2 x 0.5	2.4	2.3	42.8	40.3	4989	4651	500
120	sm	37	1.6	1.2	2 x 0.5	2.5	2.4	47.1	45.0	6073	5741	500
150	sm	37	1.8	1.4	2 x 0.5	2.6	2.6	50.7	48.9	7290	6932	300
185	sm	37	2.0	1.6	2 x 0.5	2.8	2.7	57.0	54.6	9029	8518	300
240	sm	37	2.2	1.7	2 x 0.5	3.0	3.0	64.5	62.2	11563	10999	300
300	sm	37	2.4	1.8	2 x 0.5	3.2	3.1	70.2	67.2	14155	13426	300

NAYBY (AL/PVC/DSTA/PVC) or VLV22, NA2XBY (AL/XLPE/DSTA/PVC) or YJLV22

0.6/1 (1.2) kV : Aluminium Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NAYBY	NA2XBY	Galv. Steel Tape	NAYBY	NA2XBY	NAYBY	NA2XBY	NAYBY	NA2XBY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	
4 CORE												
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	21.3	19.8	695	589	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	23.9	22.5	881	757	1000
25	rm	7	1.2	0.9	2 x 0.3	1.8	1.8	28.1	26.6	1203	1045	1000
35	rm	7	1.2	0.9	2 x 0.3	1.9	1.8	30.9	29.3	1466	1273	1000
50	sm	19	1.4	1.0	2 x 0.3	2.0	2.0	32.1	30.3	1451	1261	1000
70	sm	19	1.4	1.1	2 x 0.5	2.2	2.1	37.4	35.8	2114	1892	1000
95	sm	19	1.6	1.1	2 x 0.5	2.4	2.3	42.3	39.9	2688	2353	500
120	sm	37	1.6	1.2	2 x 0.5	2.5	2.4	46.2	43.7	3157	2785	500
150	sm	37	1.8	1.4	2 x 0.5	2.6	2.6	50.5	48.6	3727	3370	300
185	sm	37	2.0	1.6	2 x 0.5	2.8	2.7	56.1	53.7	4543	4041	300
240	sm	37	2.2	1.7	2 x 0.5	3.0	3.0	62.4	60.1	5612	5066	300
300	sm	37	2.4	1.8	2 x 0.5	3.2	3.1	68.6	65.6	6729	6016	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYBY (CU/PVC/DSTA/PVC) or VV22, N2XBY (CU/XLPE/DSTA/PVC) or YJV22

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYBY	N2XBY	Galv. Steel Tape	NYBY	N2XBY	NYBY	N2XBY	NYBY	N2XBY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m

5 CORE

1.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	15.6	15.1	413	377	1000
2.5	rm	7	0.8	0.7	2 x 0.3	1.8	1.8	16.7	16.2	494	453	1000
4	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	19.2	17.5	666	566	1000
6	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	20.8	19.2	821	711	1000
10	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	23.2	21.6	1103	977	1000
16	rm	7	1.0	0.7	2 x 0.3	1.8	1.8	25.9	24.3	1481	1336	1000
25	rm	7	1.2	0.9	2 x 0.3	1.9	1.8	30.7	28.9	2151	1949	1000
35	rm	7	1.2	0.9	2 x 0.3	2.0	1.9	34.3	32.0	2786	2521	1000
50	rm	19	1.4	1.0	2 x 0.5 / 2 x 0.3	2.2	2.1	40.1	36.9	3877	3320	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYBY (CU/PVC/DSTA/PVC) or KVV22, N2XBY (CU/XLPE/DSTA/PVC) or KYJV22

Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC sheathed

Control Cable

Specification:

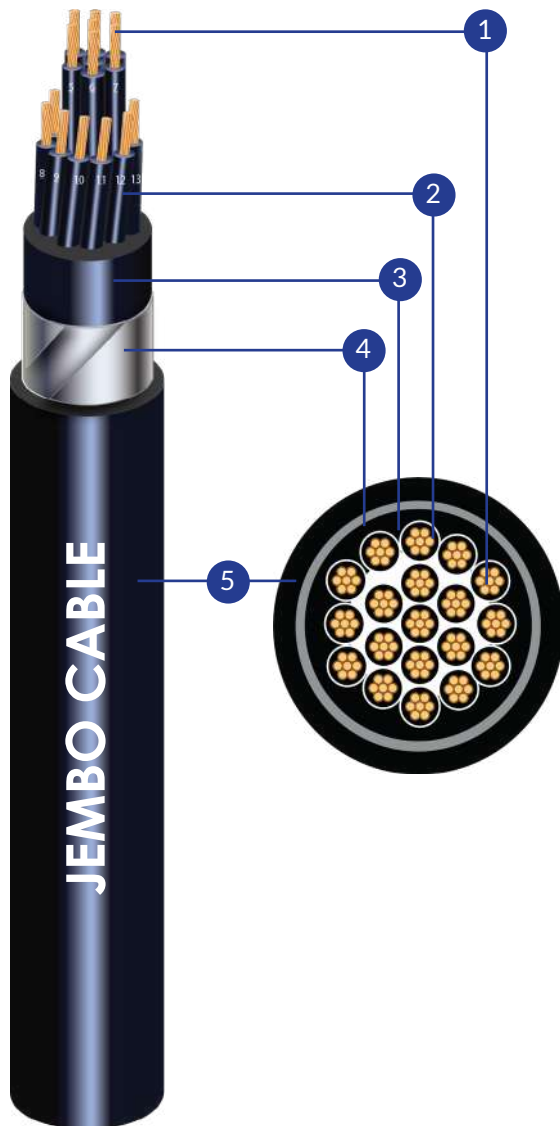
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor installations and is planted directly in ground, preferably used where considerable mechanical stress must be envisaged



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black Color)
4. Armour : Double Galvanized Steel Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYBY (CU/PVC/DSTA/PVC) or KVV22, N2XBY (CU/XLPE/DSTA/PVC) or KYJV22

0.6/1 (1.2) kV : Copper Conductor, PVC or XLPE Insulated, Galvanized Steel Tape Armoured, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Thick. of Armour	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYBY	N2XBY	Galv. Steel Tape	NYBY	N2XBY	NYBY	N2XBY	NYBY	N2XBY	
	mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m
6	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	16.6	16.0	465	1122	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	17.8	17.2	560	512	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	20.5	18.7	762	645	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	22.3	20.5	947	817	1000
7	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	16.6	16.0	475	1457	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	17.8	17.2	576	525	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	20.5	18.7	789	669	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	22.3	20.5	988	854	1000
8	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	17.7	17.0	522	2021	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	19.0	18.3	637	579	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	22.0	20.0	877	741	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	24.0	22.0	1102	951	1000
10	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	19.8	19.0	628	2557	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	21.4	20.6	772	699	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	25.0	22.6	1073	902	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	27.4	25.0	1356	1165	1000
12	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	20.3	19.5	675	2829	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	22.0	21.1	837	755	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	25.7	23.2	1174	986	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	28.2	25.7	1495	1284	1000
14	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	21.1	20.2	739	3823	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	22.9	22.0	924	830	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	26.9	24.2	1306	1094	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.9	1.8	29.7	26.9	1687	1434	1000
16	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	22.0	21.1	812	5056	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	23.9	23.0	1021	915	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	28.2	25.3	1453	1213	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.9	1.8	31.2	28.2	1884	1600	1000
19	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	23.0	22.0	896	6121	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	25.0	24.0	1136	1014	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.8	1.8	29.5	26.5	1630	1358	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	2.0	1.8	33.3	29.5	2175	1804	1000
21	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	24.1	23.0	966	7445	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	26.2	25.1	1229	1096	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	1.9	1.8	31.2	27.8	1784	1473	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.3	2.0	1.9	35.0	31.2	2365	1977	1000
24	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	26.2	25.0	1094	9075	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	28.6	27.4	1396	1243	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	2.0	1.9	34.8	30.6	2085	1691	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.2	2.0	39.6	34.8	2976	2305	1000
30	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.8	1.8	27.5	26.2	1250	11554	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.9	1.8	30.3	28.8	1627	1429	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.1	1.9	36.9	32.6	2442	1999	1000
	6	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.2	2.1	41.7	36.9	3458	2717	1000
40	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	1.9	1.8	30.7	29.0	1558	14119	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	2.0	1.9	34.2	32.1	2080	1791	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.3	2.2	2.1	42.0	36.6	3347	2543	500
	6	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.4	2.2	47.2	42.0	4437	3713	500
52	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	2.0	1.9	34.7	32.8	1961	1678	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.5	2.1	2.1	39.1	36.6	2824	2277	1000
	4	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.4	2.2	47.7	41.8	4225	3431	500
	6	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.6	2.4	53.1	47.7	5555	4702	500
61	1.5	re / rm	1 / 7	0.8	0.7	2 x 0.3	2.1	2.0	36.8	34.8	2228	1902	1000
	2.5	re / rm	1 / 7	0.8	0.7	2 x 0.5	2.2	2.2	41.4	39.6	3203	2834	500
	4	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.5	2.3	50.5	44.7	4808	3951	300
	6	re / rm	1 / 7	1.0	0.7	2 x 0.5	2.7	2.5	56.7	50.5	6403	5367	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYSY (CU/PVC/CTS/PVC) or VVP2 & N2XSY (CU/XLPE/CTS/PVC) or YJVP2

Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

Power Cable

Specification:

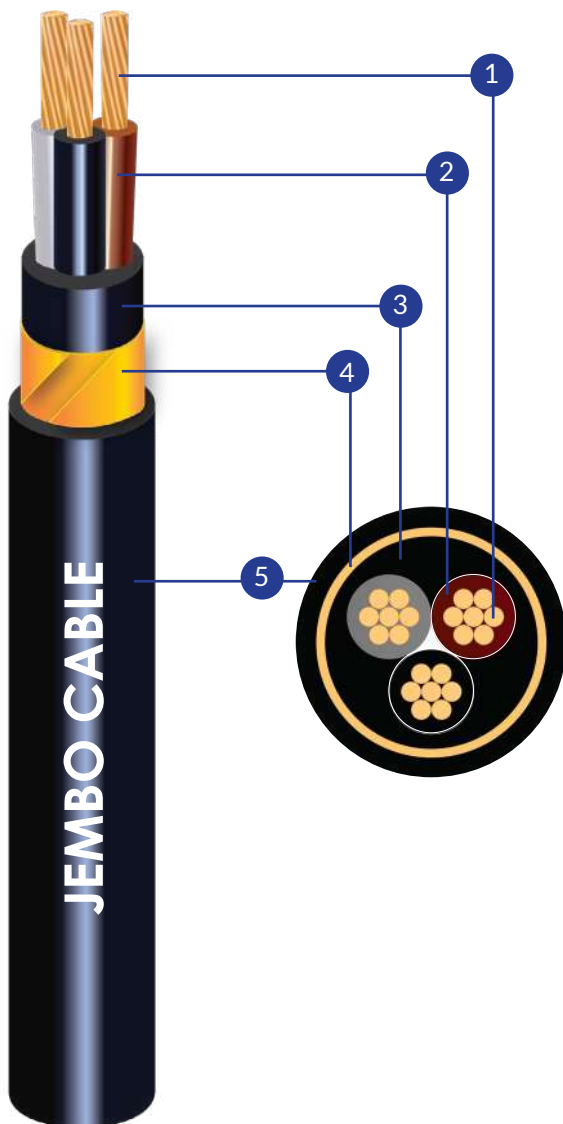
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protection (copper tape screen) is required.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black color)
4. Screen : Helically Copper Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- Twin-Cores : Blue, Black
Three-Cores : Brown, Black, Grey
Four-Cores : Blue, Brown, Black, Grey
Five-Cores : Green with yellow stripe (G/Y), Blue, Brown, Black, Grey

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYSY (CU/PVC/CTS/PVC) or VVP2 & N2XSY (CU/XLPE/CTS/PVC) or YJVP2

0.6/1 (1.2) kV Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick of Screen	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYSY	N2XSY	Copper Tape	NYSY	N2XSY	NYSY	N2XSY	NYSY	N2XSY	
mm²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	
2 CORE												
1.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	12.8	12.4	230	212	1000
2.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	13.6	13.2	270	250	1000
4	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	15.4	14.2	356	304	1000
6	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	16.6	15.4	432	375	1000
10	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	18.4	17.2	566	501	1000
16	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	20.4	19.2	744	670	1000
25	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	23.8	22.6	1058	964	1000
35	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	26.0	24.8	1329	1222	1000
50	rm	19	1.4	1.0	2 x 0.1	1.8	1.8	29.4	27.8	1714	1567	1000
70	rm	19	1.4	1.1	2 x 0.1	1.9	1.9	33.6	32.4	2318	2174	1000
95	rm	19	1.6	1.1	2 x 0.1	2.1	2.0	38.4	36.2	3097	2842	1000
120	rm	37	1.6	1.2	2 x 0.1	2.2	2.1	41.8	40.0	3745	3501	500
150	rm	37	1.8	1.4	2 x 0.1	2.3	2.3	46.2	44.6	4592	4330	500
185	rm	37	2.0	1.6	2 x 0.1	2.5	2.4	51.2	49.4	5668	5340	300
240	rm	61	2.2	1.7	2 x 0.1	2.6	2.6	57.6	55.6	7302	6895	300
300	rm	61	2.4	1.8	2 x 0.1	2.8	2.7	63.6	61.0	8988	8439	300
3 CORE												
1.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	13.3	12.9	257	234	1000
2.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	14.2	13.7	306	281	1000
4	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	16.1	14.8	412	350	1000
6	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	17.4	16.1	508	439	1000
10	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	19.4	18.1	681	602	1000
16	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	21.5	20.2	913	822	1000
25	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	25.2	23.9	1318	1200	1000
35	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	27.6	26.3	1676	1543	1000
50	sm	19	1.4	1.0	2 x 0.1	1.9	1.8	28.0	26.1	1848	1704	1000
70	sm	19	1.4	1.1	2 x 0.1	2.0	2.0	31.4	30.1	2501	2367	1000
95	sm	19	1.6	1.1	2 x 0.1	2.2	2.1	36.7	34.4	3421	3192	1000
120	sm	37	1.6	1.2	2 x 0.1	2.3	2.2	40.3	38.4	4176	3949	500
150	sm	37	1.8	1.4	2 x 0.1	2.4	2.4	43.9	41.8	5099	4815	500
185	sm	37	2.0	1.6	2 x 0.1	2.6	2.5	48.6	46.7	6298	5987	500
240	sm	37	2.2	1.7	2 x 0.1	2.8	2.7	56.5	53.7	8225	7757	300
300	sm	37	2.4	1.8	2 x 0.1	3.0	2.9	61.6	58.8	10135	9623	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYSY (CU/PVC/CTS/PVC) or VVP2 & N2XSY (CU/XLPE/CTS/PVC) or YJVP2

0.6/1 (1.2) kV Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

Conductor			Insulation Thickness		Nom. Thick of Screen	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	NYSY	N2XSY	Copper Tape	NYSY	N2XSY	NYSY	N2XSY	NYSY	N2XSY	
mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	

4 CORE

1.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	14.1	13.7	298	269	1000
2.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	15.1	14.6	360	328	1000
4	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	17.3	15.8	492	416	1000
6	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	18.7	17.3	614	529	1000
10	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	20.9	19.5	835	737	1000
16	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	23.3	21.9	1134	1020	1000
25	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	27.5	26.0	1655	1505	1000
35	rm	7	1.2	0.9	2 x 0.1	1.9	1.8	30.3	28.7	2133	1949	1000
50	sm	19	1.4	1.0	2 x 0.1	2.0	1.9	32.8	30.4	2470	2239	1000
70	sm	19	1.4	1.1	2 x 0.1	2.1	2.1	36.5	35.1	3329	3138	1000
95	sm	19	1.6	1.1	2 x 0.1	2.3	2.2	41.2	38.7	4476	4168	500
120	sm	37	1.6	1.2	2 x 0.1	2.4	2.4	45.5	43.6	5506	5219	500
150	sm	37	1.8	1.4	2 x 0.1	2.6	2.5	49.3	47.3	6699	6342	500
185	sm	37	2.0	1.6	2 x 0.1	2.8	2.7	55.6	53.2	8362	7880	300
240	sm	37	2.2	1.7	2 x 0.1	3.0	2.9	63.1	60.6	10805	10241	300
300	sm	37	2.4	1.8	2 x 0.1	3.2	3.1	68.8	65.8	13329	12635	300

5 CORE

1.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	15.0	14.5	336	302	1000
2.5	rm	7	0.8	0.7	2 x 0.1	1.8	1.8	16.1	15.6	410	372	1000
4	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	18.6	16.9	567	477	1000
6	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	20.2	18.6	712	612	1000
10	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	22.6	21.0	980	863	1000
16	rm	7	1.0	0.7	2 x 0.1	1.8	1.8	25.3	23.7	1341	1206	1000
25	rm	7	1.2	0.9	2 x 0.1	1.8	1.8	29.9	28.3	1968	1790	1000
35	rm	7	1.2	0.9	2 x 0.1	1.9	1.9	33.5	31.4	2580	2344	1000
50	rm	19	1.4	1.0	2 x 0.1	2.1	2.0	38.5	36.1	3396	3098	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYSY (CU/PVC/CTS/PVC) or KVVP2 & N2XSY (CU/XLPE/CTS/PVC) or KYJVP2

Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

Control Cable

Specification:

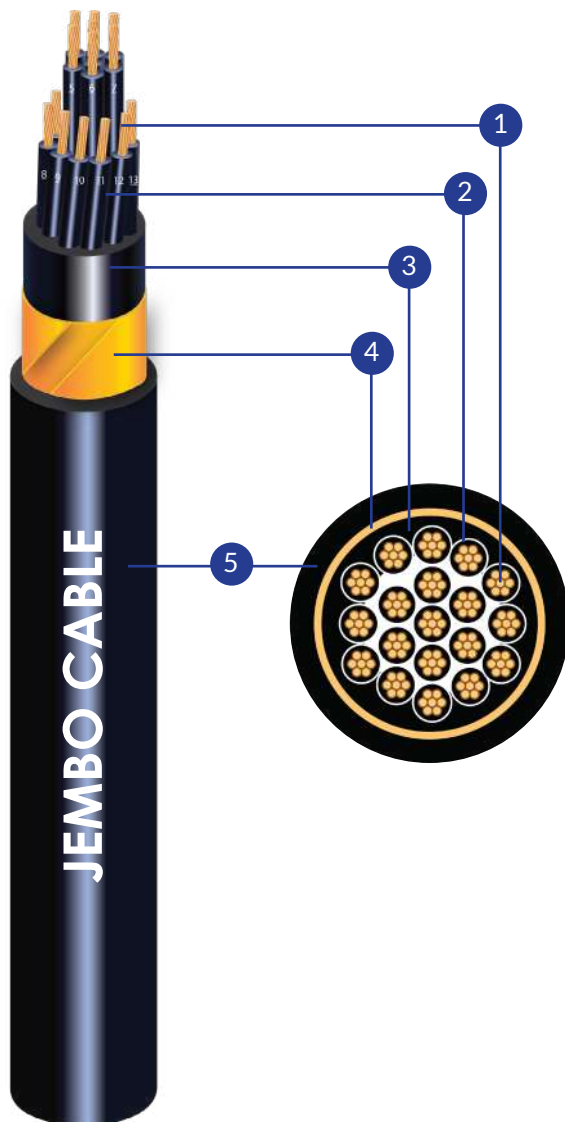
SNI IEC 60502-1, IEC 60502-1

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protection (copper tape screen) is required.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC or XLPE
3. Inner Sheath : Extruded PVC (Black color)
4. Screen : Helically Copper Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Identification of Cores : Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYSY (CU/PVC/CTS/PVC) or KVVVP2 & N2XSY (CU/XLPE/CTS/PVC) or KYJVP2

0.6/1 (1.2) kV Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Thick of Screen	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYSY	N2XSY	Copper Tape	NYSY	N2XSY	NYSY	N2XSY	NYSY	N2XSY	
	mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m
6	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	16.0	15.4	381	342	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	17.2	16.6	469	425	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	19.9	18.1	655	549	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	21.7	19.9	828	710	1000
7	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	16.0	15.4	391	349	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	17.2	16.6	486	438	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	19.9	18.1	682	572	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	21.7	19.9	870	746	1000
8	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	17.1	16.4	432	385	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	18.4	17.7	539	485	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	21.4	19.4	761	637	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	23.4	21.4	973	834	1000
9	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	18.6	17.8	481	428	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	20.1	19.3	601	540	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	23.5	21.2	851	712	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	25.8	23.5	1089	933	1000
10	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	19.2	18.4	525	465	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	20.8	20.0	659	591	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	24.4	22.0	938	782	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	26.8	24.4	1206	1030	1000
12	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	19.7	18.9	569	501	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	21.4	20.5	721	644	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	25.1	22.6	1035	862	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	27.6	25.1	1341	1145	1000
14	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	20.5	19.6	628	551	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	22.3	21.4	802	714	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	26.3	23.6	1160	964	1000
	6	rm	7	0.8	0.7	2×0.1	1.8	1.8	28.9	26.3	1510	1288	1000
16	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	21.4	20.5	695	607	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	23.3	22.4	893	792	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	27.6	24.7	1299	1077	1000
	6	rm	7	0.8	0.7	2×0.1	1.9	1.8	30.6	27.6	1713	1446	1000
19	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	22.4	21.4	773	673	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	24.4	23.4	1001	886	1000
	4	rm	7	1.0	0.7	2×0.1	1.8	1.8	28.9	25.9	1467	1214	1000
	6	rm	7	0.8	0.7	2×0.1	1.9	1.8	32.5	28.9	1976	1641	1000
20	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	23.5	22.4	836	727	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	25.6	24.5	1082	957	1000
	4	rm	7	1.0	0.7	2×0.1	1.9	1.8	30.6	27.2	1603	1312	1000
	6	rm	7	0.8	0.7	2×0.1	2.0	1.9	34.4	30.6	2153	1787	1000
21	1.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	23.5	22.4	837	726	1000
	2.5	rm	7	0.8	0.7	2×0.1	1.8	1.8	25.6	24.5	1087	960	1000
	4	rm	7	1.0	0.7	2×0.1	1.9	1.8	30.6	27.2	1613	1321	1000
	6	rm	7	0.8	0.7	2×0.1	2.0	1.9	34.4	30.6	2171	1805	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYSY (CU/PVC/CTS/PVC) or KVVVP2 & N2XSY (CU/XLPE/CTS/PVC) or KYJVP2

0.6/1 (1.2) kV Copper Conductor, PVC or XLPE Insulated, Copper Tape Screen, PVC Sheathed

No. of Core	Conductor			Insulation Thickness		Nom. Thick of Screen	Out. Sheath Thickness		Approx. Diameter of Cable		Approx. Weight of Cable		Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	NYSY	N2XSY	Copper Tape	NYSY	N2XSY	NYSY	N2XSY	NYSY	N2XSY	
	mm ²	-	-	mm	mm	no x mm	mm	mm	mm	mm	kg/km	kg/km	m
24	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	25.6	24.4	952	825	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	28.0	26.8	1239	1094	1000
	4	rm	7	1.0	0.7	2x0.1	2.0	1.8	34.2	29.8	1892	1508	1000
	6	rm	7	0.8	0.7	2x0.1	2.1	2.0	38.0	34.2	2501	2112	1000
27	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	26.1	24.9	1019	880	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	28.6	27.3	1335	1175	1000
	4	rm	7	1.0	0.7	2x0.1	2.0	1.9	34.9	30.6	2045	1646	1000
	6	rm	7	0.8	0.7	2x0.1	2.1	2.0	38.8	34.9	2714	2292	1000
30	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	26.9	25.6	1100	947	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	29.5	28.2	1447	1271	1000
	4	rm	7	1.0	0.7	2x0.1	2.0	1.9	36.1	32.0	2220	1819	1000
	6	rm	7	0.8	0.7	2x0.1	2.2	2.0	40.3	36.1	2975	2495	1000
32	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	28.8	27.4	1182	1018	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.9	1.9	32.2	30.4	1600	1379	1000
	4	rm	7	1.0	0.7	2x0.1	2.1	2.0	38.9	34.5	2403	1969	1000
	6	rm	7	0.8	0.7	2x0.1	2.3	2.1	43.9	38.9	3256	2696	1000
34	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	28.8	27.4	1220	1048	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.9	1.9	32.2	30.4	1656	1427	1000
	4	rm	7	1.0	0.7	2x0.1	2.1	2.0	38.9	34.5	2494	2043	1000
	6	rm	7	0.8	0.7	2x0.1	2.3	2.1	43.9	38.9	3385	2806	1000
37	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	28.8	27.4	1289	1105	1000
	2.5	rm	7	0.8	0.7	2x0.1	1.9	1.9	32.2	30.4	1756	1511	1000
	4	rm	7	1.0	0.7	2x0.1	2.1	2.0	38.9	34.5	2654	2172	1000
	6	rm	7	0.8	0.7	2x0.1	2.3	2.1	43.9	38.9	3609	2993	1000
40	1.5	rm	7	0.8	0.7	2x0.1	1.8	1.8	29.9	28.4	1375	1176	1000
	2.5	rm	7	0.8	0.7	2x0.1	2.0	1.9	33.6	31.5	1891	1613	1000
	4	rm	7	1.0	0.7	2x0.1	2.2	2.0	40.6	35.8	2859	2323	1000
	6	rm	7	0.8	0.7	2x0.1	2.3	2.2	45.6	40.6	3866	3226	500
50	1.5	rm	7	0.8	0.7	2x0.1	2.0	2.0	34.1	32.2	1725	1461	1000
	2.5	rm	7	0.8	0.7	2x0.1	2.1	2.0	37.7	35.8	2308	2003	1000
	4	rm	7	1.0	0.7	2x0.1	2.3	2.2	46.1	40.4	3545	2863	1000
	6	rm	7	0.8	0.7	2x0.1	2.5	2.3	51.5	46.1	4765	4003	500
60	1.5	rm	7	0.8	0.7	2x0.1	2.0	2.0	36.0	34.2	1984	1691	1000
	2.5	rm	7	0.8	0.7	2x0.1	2.2	2.1	40.0	38.0	2691	2332	1000
	4	rm	7	1.0	0.7	2x0.1	2.4	2.2	48.9	43.1	4144	3369	1000
	6	rm	7	0.8	0.7	2x0.1	2.6	2.4	55.1	48.9	5640	4694	500
61	1.5	rm	7	0.8	0.7	2x0.1	2.0	2.0	36.0	34.2	2007	1709	1000
	2.5	rm	7	0.8	0.7	2x0.1	2.2	2.1	40.0	38.0	2723	2359	1000
	4	rm	7	1.0	0.7	2x0.1	2.4	2.2	48.9	43.1	4195	3411	1000
	6	rm	7	0.8	0.7	2x0.1	2.6	2.4	55.1	48.9	5712	4754	500

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYCY (CU/PVC/CWS/PVC)

Copper Conductor, PVC Insulated, Copper Wire and Tape Screen, PVC Sheathed

Power Cable

Specification:

SNI IEC 60502-1, IEC 60502-1

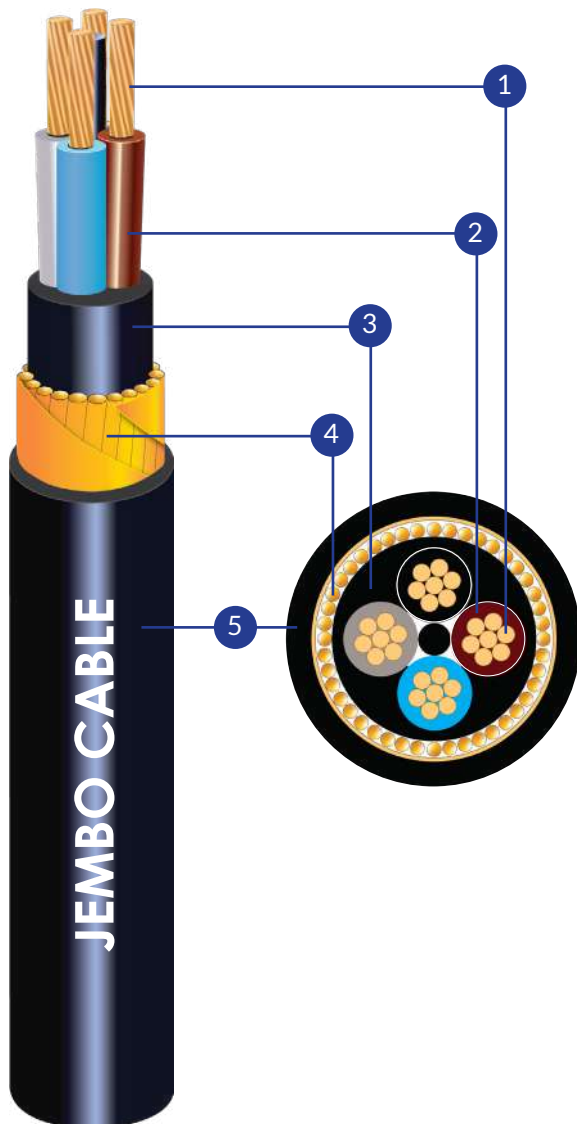
SPLN 43-4-1994

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Power cable for indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protection (copper wire & tape screen) is required.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black color)
4. Screen : Copper Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

- One-Cores : Black
Twin-Cores : Blue, Black
Three-Cores : Brown, Black, Grey
Four-Cores : Blue, Brown, Black, Grey
Five-Cores : Green with yellow stripe (G/Y), Blue, Brown, Black, Grey

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A. B. or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYCY (CU/PVC/CWS/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC Insulated, Copper Wire and Tape Screened, PVC Sheathed

Conductor / Screen			Nom. Thickness		Approx. Diameter of Cable	Approx. Weight of Cable	Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Out. Sheath			
mm ²	-	-	mm	mm	mm	kg/km	m
1 CORE							
1.5 / 1.5	re / rm	1/7	0.8	1.8	10.2	135	1000
2.5 / 2.5	re / rm	1/7	0.8	1.8	10.6	159	1000
4 / 4	re / rm	1/7	1.0	1.8	11.7	207	1000
6 / 6	re / rm	1/7	1.0	1.8	12.3	253	1000
10 / 10	re / rm	1/7	1.0	1.8	13.5	345	1000
16 / 16	rm	7	1.0	1.8	14.8	469	1000
25 / 16	rm	7	1.2	1.8	16.5	591	1000
35 / 16	rm	7	1.2	1.8	17.6	700	1000
50 / 25	rm	19	1.4	1.8	19.7	930	1000
70 / 35	rm	19	1.4	1.8	21.6	1235	1000
95 / 50	rm	19	1.6	1.8	24.4	1636	1000
120 / 70	rm	37	1.6	1.8	26.0	2061	1000
150 / 70	rm	37	1.8	1.8	27.9	2361	1000
185 / 95	rm	37	2.0	1.9	32.0	3009	1000
240 / 120	rm	61	2.2	2.0	34.4	3830	1000
300 / 150	rm	61	2.4	2.1	38.3	4747	1000
2 CORE							
1.5 / 1.5	re / rm	1/7	0.8	1.8	13.4	229	1000
2.5 / 2.5	re / rm	1/7	0.8	1.8	14.2	275	1000
4 / 4	re / rm	1/7	1.0	1.8	16.2	372	1000
6 / 6	re / rm	1/7	1.0	1.8	17.4	462	1000
10 / 10	re / rm	1/7	1.0	1.8	19.5	630	1000
16 / 16	rm	7	1.0	1.8	21.8	857	1000
25 / 16	rm	7	1.2	1.8	25.2	1163	1000
35 / 16	rm	7	1.2	1.8	27.4	1428	1000
50 / 25	rm	19	1.4	1.9	31.4	1904	1000
70 / 35	rm	19	1.4	2.0	35.7	2586	1000
95 / 50	rm	19	1.6	2.2	41.1	3472	500
120 / 70	rm	37	1.6	2.3	44.5	4296	500
150 / 70	rm	37	1.8	2.4	48.9	5136	500
185 / 95	rm	37	2.0	2.6	55.5	6455	300
240 / 120	rm	61	2.2	2.8	61.4	8311	300
300 / 150	rm	61	2.4	3.0	67.9	10241	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYCY (CU/PVC/CWS/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC Insulated, Copper Wire and Tape Screen, PVC Sheathed

Conductor / Screen			Nom. Thickness		Approx. Diameter of Cable	Approx. Weight of Cable	Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Out. Sheath			
mm ²	-	-	mm	mm	mm	kg/km	m
3 CORE							
1.5 / 1.5	re / rm	1 / 7	0.8	1.8	13.9	254	1000
2.5 / 2.5	re / rm	1 / 7	0.8	1.8	14.8	310	1000
4 / 4	re / rm	1 / 7	1.0	1.8	16.9	426	1000
6 / 6	re / rm	1 / 7	1.0	1.8	18.2	536	1000
10 / 10	re / rm	1 / 7	1.0	1.8	20.5	742	1000
16 / 16	rm	7	1.0	1.8	22.9	1023	1000
25 / 16	rm	7	1.2	1.8	26.6	1419	1000
35 / 16	rm	7	1.2	1.8	29.0	1772	1000
50 / 25	sm	19	1.4	2.0	30.0	2042	1000
70 / 35	sm	19	1.4	2.1	33.5	2775	1000
95 / 50	sm	19	1.6	2.3	39.4	3801	1000
120 / 70	sm	37	1.6	2.4	43.0	4731	500
150 / 70	sm	37	1.8	2.5	46.6	5649	500
185 / 95	sm	37	2.0	2.7	52.9	7093	300
240 / 120	sm	37	2.2	2.9	60.0	9211	300
300 / 150	sm	37	2.4	3.1	65.6	11364	300
4 CORE							
1.5 / 1.5	re / rm	1 / 7	0.8	1.8	14.7	293	1000
2.5 / 2.5	re / rm	1 / 7	0.8	1.8	15.7	361	1000
4 / 4	re / rm	1 / 7	1.0	1.8	18.1	503	1000
6 / 6	re / rm	1 / 7	1.0	1.8	19.5	638	1000
10 / 10	re / rm	1 / 7	1.0	1.8	22.0	893	1000
16 / 16	rm	7	1.0	1.8	24.7	1240	1000
25 / 16	rm	7	1.2	1.8	28.9	1751	1000
35 / 16	rm	7	1.2	1.9	31.7	2224	1000
50 / 25	sm	19	1.4	2.1	34.9	2657	1000
70 / 35	sm	19	1.4	2.2	38.5	3594	1000
95 / 50	sm	19	1.6	2.4	43.9	4849	500
120 / 70	sm	37	1.6	2.5	48.2	6053	500
150 / 70	sm	37	1.8	2.7	52.0	7243	300
185 / 95	sm	37	2.0	2.9	59.9	9148	300
240 / 120	sm	37	2.2	3.1	66.7	11783	300
300 / 150	sm	37	2.4	3.3	72.8	14549	300

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYCY (CU/PVC/CWS/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC Insulated, Copper Wire and Tape Screen, PVC Sheathed

Conductor / Screen			Nom. Thickness		Approx. Diameter of Cable	Approx. Weight of Cable	Standard Length/ Drum
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Out. Sheath			
mm ²	-	-	mm	mm	mm	kg/km	m

5 CORE

1.5 / 2.5	re / rm	1/7	0.8	1.8	15.6	337	1000
2.5 / 2.5	re / rm	1/7	0.8	1.8	16.7	409	1000
4 / 4	re / rm	1/7	1.0	1.8	19.4	575	1000
6 / 6	re / rm	1/7	1.0	1.8	21.0	734	1000
10 / 10	re / rm	1/7	1.0	1.8	23.7	1033	1000
16 / 16	rm	7	1.0	1.8	26.7	1442	1000
25 / 16	rm	7	1.2	1.9	31.5	2074	1000
35 / 16	rm	7	1.2	2.0	35.1	2680	1000
50 / 25	rm	19	1.4	2.2	40.5	3574	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

NYCY (CU/PVC/CWS/PVC)

Copper Conductor, PVC Insulated, Copper Wire and Tape Screen, PVC Sheathed

Control Cable

Specification:

SNI IEC 60502-1, IEC 60502-1

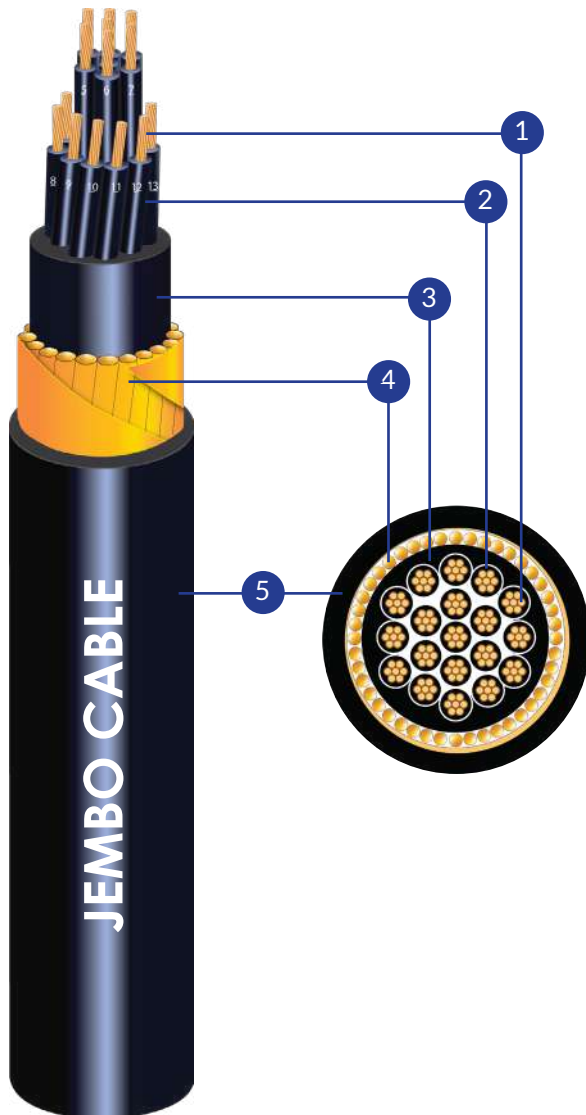
SPLN 43-4-1994

Other specifications are available on request

Rated Voltage : 0.6/1 (1.2) kV

Application:

Control cable for indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protection (copper wire & tape screen) is required.



Construction:

1. Conductor : Annealed Copper Wire
2. Insulation : Extruded PVC
3. Inner Sheath : Extruded PVC (Black color)
4. Screen : Copper Wire & Tape
5. Outer Sheath : Extruded PVC (Black Color)

Identification of Cores:

Black with white numbering

Other colours are available on request

Special Features on Request:

- Tinned Copper Wire
- Heat Resistant
- Oil Resistant
- Flame Retardant Cat. A, B, or C
- Nylon Coated
- Anti Termite
- Anti Rodent
- PVC Low Smoke Low Halogen
- Low Smoke Zero Halogen

NYCY (CU/PVC/CWS/PVC)

0.6/1 (1.2) kV : Copper Conductor, PVC Insulated, Copper Wire and Tape Screen, PVC Sheathed

No. of Core	Conductor / Screen			Nom. Thickness		Approx. Diameter of Cable	Approx. Weight of Cable	Standard Length/ Drum
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Out. Sheath			
-	mm ²	-	-	mm	mm	mm	kg/km	m
7	1.5 / 2.5	re / rm	1 / 7	0.8	1.8	16.6	391	1000
	2.5 / 2.5	re / rm	1 / 7	0.8	1.8	17.8	482	1000
	4 / 4	re / rm	1 / 7	1.0	1.8	20.7	687	1000
10	1.5 / 2.5	re / rm	1 / 7	0.8	1.8	19.8	517	1000
	2.5 / 4	re / rm	1 / 7	0.8	1.8	21.6	662	1000
	4 / 6	re / rm	1 / 7	1.0	1.8	25.2	950	1000
12	1.5 / 2.5	re / rm	1 / 7	0.8	1.8	20.3	559	1000
	2.5 / 4	re / rm	1 / 7	0.8	1.8	22.2	723	1000
	4 / 6	re / rm	1 / 7	1.0	1.8	25.9	1045	1000
14	1.5 / 2.5	re / rm	1 / 7	0.8	1.8	21.1	617	1000
	2.5 / 6	re / rm	1 / 7	0.8	1.8	23.1	819	1000
	4 / 6	re / rm	1 / 7	1.0	1.8	27.1	1167	1000
19	1.5 / 4	re / rm	1 / 7	0.8	1.8	23.2	773	1000
	2.5 / 6	re / rm	1 / 7	0.8	1.8	25.2	1013	1000
	4 / 10	re / rm	1 / 7	1.0	1.9	30.2	1521	1000
24	1.5 / 6	re / rm	1 / 7	0.8	1.8	26.4	961	1000
	2.5 / 10	re / rm	1 / 7	0.8	1.8	29.1	1281	1000
30	1.5 / 6	re / rm	1 / 7	0.8	1.8	27.7	1106	1000
	2.5 / 10	re / rm	1 / 7	0.8	1.9	30.8	1499	1000
40	1.5 / 10	re / rm	1 / 7	0.8	1.9	31.2	1427	1000
	2.5 / 10	re / rm	1 / 7	0.8	2.0	34.7	1922	1000

Tolerance of Diameter : OD ≤ 20 mm : ± 1.0 mm, OD ≤ 40 mm : ± 2 mm, OD ≤ 60 mm : ± 3 mm, OD ≤ 80 mm : ± 4 mm, OD > 80 mm : ± 5%

ELECTRICAL DATA

COPPER CONDUCTOR

Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C (R)	Max. AC Resistance at 90°C (R)	Min. Insulation Resistance at 20°C		Reactance at 50 Hz (x)						Short Circuit Current at 1 sec.		AC Voltage Test
						Single Core				Multi Core				
		Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	
														
mm²	Ohm/km	Ohm/km		M.Ohm.km		Ohm/km		Ohm/km		Ohm/km		kA		kV/5 min
1.5	12.1	14.48	15.429	50	2500	0.123	0.121	0.152	0.150	0.112	0.108	0.17	0.20	3.5
2.5	7.41	8.87	9.449	50	2100	0.111	0.109	0.140	0.138	0.104	0.101	0.27	0.33	3.5
4	4.61	5.52	5.878	50	1800	0.104	0.099	0.133	0.128	0.103	0.094	0.44	0.54	3.5
6	3.08	3.69	3.927	40	1500	0.096	0.091	0.125	0.120	0.098	0.090	0.65	0.81	3.5
10	1.83	2.19	2.333	30	1200	0.086	0.082	0.115	0.111	0.092	0.085	1.10	1.36	3.5
16	1.15	1.38	1.467	30	1100	0.079	0.075	0.108	0.104	0.087	0.081	1.75	2.16	3.5
25	0.727	0.87	0.927	30	1000	0.074	0.071	0.103	0.100	0.086	0.081	2.76	3.41	3.5
35	0.524	0.63	0.668	20	1000	0.069	0.066	0.098	0.095	0.083	0.079	3.83	4.73	3.5
50	0.387	0.463	0.494	20	900	0.064	0.061	0.093	0.089	0.084	0.078	5.19	6.41	3.5
70	0.268	0.321	0.342	20	900	0.060	0.058	0.089	0.087	0.081	0.077	7.49	9.25	3.5
95	0.193	0.232	0.247	20	800	0.058	0.055	0.087	0.084	0.080	0.075	10.41	12.85	3.5
120	0.153	0.184	0.196	20	800	0.055	0.053	0.084	0.082	0.077	0.074	13.13	16.21	3.5
150	0.124	0.150	0.159	20	800	0.055	0.052	0.084	0.081	0.077	0.074	16.20	20.00	3.5
185	0.0991	0.120	0.128	20	800	0.054	0.052	0.083	0.081	0.077	0.074	20.27	25.03	3.5
240	0.0754	0.0920	0.0980	20	700	0.052	0.050	0.081	0.079	0.076	0.073	26.64	32.89	3.5
300	0.0601	0.0740	0.0790	20	700	0.052	0.049	0.081	0.078	0.076	0.072	33.42	41.27	3.5
400	0.047	0.0600	0.0630	20	700	0.051	0.048	0.080	0.077	-	-	42.74	52.77	3.5
500	0.0366	0.0480	0.0510	20	700	0.050	0.047	0.079	0.076	-	-	54.88	67.76	3.5
630	0.0283	0.0390	0.0410	20	700	0.048	0.047	0.077	0.076	-	-	70.97	87.64	3.5

ALUMINIUM CONDUCTOR

Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C (R)	Max. AC Resistance at 90°C (R)	Min. Insulation Resistance at 20°C		Reactance at 50 Hz (x)						Short Circuit Current at 1 sec.		AC Voltage Test
		Single Core				Multi Core								
		Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	Insul PVC	Insul XLPE	
														
mm²	Ohm/km	Ohm/km		M.Ohm.km		Ohm/km		Ohm/km		Ohm/km		kA		kV/5 min
10	3.08	3.701	3.949	30	1200	0.087	0.082	0.116	0.111	0.092	0.085	0.71	0.89	3.5
16	1.91	2.295	2.449	30	1100	0.079	0.075	0.108	0.104	0.087	0.082	1.14	1.44	3.5
25	1.20	1.442	1.539	30	1000	0.074	0.071	0.103	0.100	0.086	0.082	1.81	2.29	3.5
35	0.868	1.043	1.113	20	1000	0.070	0.067	0.099	0.096	0.083	0.079	2.51	3.17	3.5
50	0.641	0.770	0.822	20	900	0.064	0.061	0.093	0.09	0.084	0.079	3.39	4.29	3.5
70	0.443	0.533	0.568	20	900	0.060	0.057	0.089	0.086	0.081	0.077	4.91	6.20	3.5
95	0.32	0.385	0.411	20	800	0.059	0.055	0.088	0.084	0.081	0.075	6.80	8.59	3.5
120	0.253	0.305	0.325	20	800	0.055	0.053	0.084	0.082	0.078	0.074	8.60	10.86	3.5
150	0.206	0.248	0.265	20	800	0.055	0.053	0.084	0.082	0.078	0.075	10.56	13.34	3.5
185	0.164	0.198	0.211	20	800	0.054	0.052	0.083	0.081	0.078	0.075	13.27	16.76	3.5
240	0.125	0.151	0.162	20	700	0.053	0.050	0.082	0.079	0.077	0.074	17.41	21.99	3.5
300	0.100	0.122	0.1297	20	700	0.052	0.049	0.081	0.078	0.077	0.074	21.76	27.49	3.5
400	0.0778	0.096	0.102	20	700	0.051	0.048	0.080	0.077	0.076	0.073	27.97	35.33	3.5
500	0.0605	0.075	0.080	20	700	0.050	0.047	0.079	0.076	-	-	35.97	45.43	3.5
630	0.0469	0.06	0.063	20	700	0.048	0.047	0.077	0.076	-	-	46.40	58.61	3.5

ELECTRICAL DATA

Current Carrying Capacity refers to SNI 0225: 2020 (adopted with modification from IEC 60364-5-52 edition 3.0), for SNI IEC Standard

Nom. Cross Section Area	Current Carrying Capacity at 30 °C							
	NYY (VV), NYR(AI)Y (VV72), NYCY, NYSY (VVP2)		NYY (VV), NYBY (VV22), NYRY (VV32), NYFGbY, NYRGbY, NYSY (VVP2), NYCY					
	Single Core		2- Cores		3, 4 - Cores		5 - Cores	
	In Air	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A	A	A
1.5	26	40	20	31	18.5	26	14	18
2.5	35	54	27	41	25	34	19	24
4	46	70	37	54	34	44	26	31
6	58	90	48	68	43	56	32	39
10	79	122	66	92	60	75	45	53
16	105	160	89	121	80	98	60	69
25	140	206	118	153	106	128	80	90
35	174	249	145	187	131	157	98	110
50	212	296	176	222	159	185	119	130
70	269	365	224	272	202	228	-	-
95	331	438	271	328	244	275	-	-
120	386	499	314	375	282	313	-	-
150	442	561	361	419	324	353	-	-
185	511	637	412	475	371	399	-	-
240	612	743	484	550	436	464	-	-
300	707	843	590	525	481	524	-	-
400	859	986	-	-	-	-	-	-
500	1000	1125	-	-	-	-	-	-
630	1183	1306	-	-	-	-	-	-

Nom. Cross Section Area	Current Carrying Capacity at 30 °C							
	N2XY (YJV), N2XR(AI)Y (YJV72), N2XSY (YJVP2)		N2XY (YJV), N2XBY (YJV22), N2XRY (YJV32), N2XFGbY, N2XRGbY, N2XSY (YJVP2)					
	Single Core		2- Cores		3, 4 - Cores		5 - Cores	
	In Air	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A	A	A
1.5	35	43	27	33	23	29	17	20
2.5	43	58	36	44	32	38	24	27
4	57	76	48	58	41	49	31	34
6	72	95	61	72	52	60	39	42
10	98	128	83	97	71	97	53	68
16	132	169	113	128	96	108	72	76
25	187	220	150	167	130	141	98	99
35	217	265	186	201	159	170	119	119
50	263	316	226	239	193	201	145	141
70	331	385	290	295	245	249	-	-
95	408	465	353	355	302	299	-	-
120	474	531	413	404	349	340	-	-
150	550	597	468	458	400	381	-	-
185	633	680	540	516	464	434	-	-
240	750	790	590	600	552	506	-	-
300	871	901	745	695	640	585	-	-
400	1019	1032	-	-	-	-	-	-
500	1188	1180	-	-	-	-	-	-
630	1408	1372	-	-	-	-	-	-

ELECTRICAL DATA

Current Carrying Capacity refers to SNI 0225: 2020 (adopted with modification from IEC 60364-5-52 edition 3.0), for SNI IEC Standard

Nom. Cross Section Area	Current Carrying Capacity at 30 °C					
	NAYY, NAYR(AI)Y		NAYY (VLV), NAYBY (VLV22), NAYRY (VLV32), NAYFGbY, NAYRGbY			
	Single Core		2- Cores		3, 4 - Cores	
	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A
10	62	76	51	61	46	53
16	82	102	70	79	62	69
25	125	134	91	102	83	93
35	145	180	113	125	102	111
50	176	215	138	147	124	133
70	224	265	174	178	158	165
95	271	319	210	218	190	198
120	314	383	244	245	221	227
150	361	409	281	280	252	254
185	412	464	320	316	289	290
240	484	543	378	369	339	341
300	548	615	460	414	377	387
400	666	719	550	481	444	446
500	776	821	-	-	-	-
630	919	953	-	-	-	-

Nom. Cross Section Area	Current Carrying Capacity at 30 °C					
	NA2XY, NA2XR(AI)Y		NA2XY (YJLV), NA2XBY (YJLV22), NA2XRY (YJLV32), NA2XFGbY, NA2XRGbY			
	Single Core		2- Cores		3, 4 - Cores	
	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A
10	72	95	61	72	52	60
16	102	131	88	99	75	84
25	137	170	119	130	100	110
35	168	205	145	157	123	132
50	204	242	175	185	149	156
70	257	301	220	229	189	193
95	316	360	272	276	233	232
120	368	421	317	320	271	268
150	421	463	362	351	310	296
185	488	525	420	400	359	336
240	583	615	497	467	429	393
300	675	700	577	532	496	447
400	790	800	-	-	-	-
500	921	915	-	-	-	-
630	1091	1064	-	-	-	-

ELECTRICAL DATA

Current Carrying Capacity refers to SNI 0225: 2020 (adopted with modification from IEC 60364-5-52 edition 3.0), for SNI IEC Standard

No. of Cores	Current Carrying Capacity at 30 °C							
	NYY (KVV), NYSY, NYCY, NYBY (KVV22), NYRY (KVV32), NYFGbY, NYRGbY							
	1.5 mm ²		2.5 mm ²		4 mm ²		6 mm ²	
	In Air	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A	A	A
6	12	16	16	20	22	26	28	34
7	12	16	16	20	22	26	28	34
8	12	16	16	20	22	26	28	34
10	10	13	14	17	19	22	24	28
12	10	13	14	17	19	22	24	28
14	9	12	13	15	17	20	22	25
16	9	12	13	15	17	20	22	25
19	8	10	11	14	15	18	19	22
21	8	10	11	14	15	18	19	22
24	7	9	10	12	14	15	17	20
30	7	9	10	12	14	15	17	20
40	6	8	9	10	12	13	15	17
52	6	8	9	10	12	13	15	17
61	6	7	8	9	10	11	13	14

No. of Cores	Current Carrying Capacity at 30 °C							
	N2XY (KJYV), N2XSY, NYCY, N2XBY (KYJV22), N2XRY (KYJV32), N2XFGbY, N2XRGbY							
	1.5 mm ²		2.5 mm ²		4 mm ²		6 mm ²	
	In Air	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Ground
mm ²	A	A	A	A	A	A	A	A
6	15	17	21	23	27	29	34	36
7	15	17	21	23	27	29	34	36
8	15	17	21	23	27	29	34	36
10	13	15	18	19	23	25	29	30
12	13	15	18	19	23	25	29	30
14	12	13	16	17	21	22	26	27
16	12	13	16	17	21	22	26	27
19	10	12	14	15	18	20	23	24
21	10	12	14	15	18	20	23	24
24	9	10	13	13	16	17	21	21
30	9	10	13	13	16	17	21	21
40	8	9	11	11	14	15	18	18
52	8	9	11	11	14	15	18	18
61	7	7	10	10	12	12	16	15

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

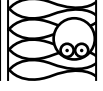
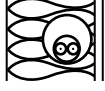
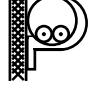
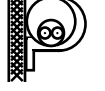
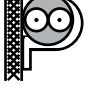
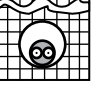
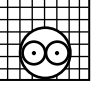
**Table B.52.2 - Current-carrying capacities in amperes
for methods of installation in table B.52-1 -
PVC insulation/two loaded conductors/copper or aluminium -
Conductor temperature : 70°C/Ambient temperature: 30°C in air, 20°C in ground**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	A1	A2	B1	B2	C	D1	D2
1	2	3	4	5	6	7	8
Copper							
1.5	14.5	14	17.5	16.5	19.5	22	22
2.5	19.5	18.5	24	23	27	29	28
4	26	25	32	30	36	37	38
6	34	32	41	38	46	46	48
10	46	43	57	52	63	60	64
16	61	57	76	69	85	78	83
25	80	75	101	90	112	99	110
35	99	92	125	111	138	119	132
50	119	110	151	133	168	140	156
70	151	139	192	168	213	173	192
95	182	167	232	201	258	204	230
120	210	192	269	232	299	231	261
150	240	219	300	258	344	261	293
185	273	248	341	294	392	292	331
240	321	291	400	344	461	336	382
300	367	334	458	394	530	379	427
Aluminium							
10	36	33	44	41	49	47	
16	48	44	60	54	66	61	63
25	63	58	79	71	83	77	82
35	77	71	97	86	103	93	98
50	93	86	118	104	125	109	117
70	118	108	150	131	160	135	145
95	142	130	181	157	195	159	173
120	164	150	210	181	226	180	200
150	189	172	234	201	261	204	224
185	215	195	266	230	298	228	255
240	252	229	312	269	352	262	298
300	289	263	358	308	406	296	336
NOTE : In columns 3,5,6,7 and 8, circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

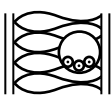
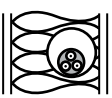
**Table B.52.3 - Current-carrying capacities in amperes
for methods of installation in table B.52.1-
XLPE or EPR insulation/two loaded conductors/copper or aluminium -
Conductor temperature : 90°C/Ambient temperature: 30°C in air, 20°C in ground**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	A1	A2	B1	B2	C	D1	D2
							
1	2	3	4	5	6	7	8
Copper							
1.5	19	18.5	23	22	24	25	27
2.5	26	25	31	30	33	33	35
4	35	33	42	40	45	43	46
6	45	42	54	51	58	53	58
10	61	57	75	52	69	80	77
16	81	76	100	69	91	107	100
25	106	99	133	90	119	138	129
35	131	145	64	111	148	171	155
50	158	183	198	133	175	209	183
70	200	183	253	221	269	203	225
95	241	220	306	265	328	239	270
120	278	253	354	305	382	271	306
150	318	290	393	334	441	306	343
185	362	329	449	384	506	343	387
240	424	386	528	459	599	395	448
300	486	442	603	532	693	446	502
Aluminium							
10	48	45	59	54	62	55	
16	64	60	79	72	84	71	76
25	84	78	105	94	101	90	98
35	103	96	130	115	126	108	117
50	125	115	157	138	154	128	138
70	158	145	200	175	198	158	170
95	191	175	242	210	241	186	204
120	220	201	281	242	280	211	233
150	253	230	307	261	324	238	261
185	288	262	351	300	371	267	296
240	338	307	412	358	439	307	343
300	387	352	471	415	508	346	386
NOTE : In columns 3,5,6,7 and 8, circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

**Table B.52.4 - Current-carrying capacities in amperes
for methods of installation in table B.52.1 -
PVC insulation/three loaded conductors/copper or aluminium -
Conductor temperature : 70°C, ambient temperature: 30°C in air, 20°C in ground**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	A1	A2	B1	B2	C	D1	D2
							
1	2	3	4	5	6	7	8
Copper							
1.5	13.5	13	15.5	15	17.5	18	19
2.5	18	17.5	21	20	24	24	24
4	24	23	28	27	32	30	33
6	31	29	36	34	41	38	41
10	42	39	50	46	57	50	54
16	56	52	68	62	76	64	70
25	73	68	89	80	96	82	92
35	89	83	110	99	119	98	110
50	108	99	134	118	144	116	130
70	136	125	171	149	184	143	162
95	164	150	207	179	223	169	193
120	188	172	239	206	259	192	220
150	216	196	262	225	299	217	246
185	245	223	296	255	341	243	278
240	285	261	346	297	403	280	320
300	328	298	394	339	464	316	359
Aluminium							
10	32	31	39	36	44	39	
16	43	41	53	48	59	50	53
25	57	53	70	62	73	64	69
35	70	65	86	77	90	77	83
50	84	78	104	92	110	91	99
70	107	98	133	116	140	112	122
95	129	118	161	139	170	132	148
120	149	135	186	160	197	150	169
150	170	155	204	176	227	169	189
185	194	176	230	199	259	190	214
240	227	207	269	232	305	218	250
300	261	237	306	265	351	247	282
NOTE : In columns 3,5,6,7 and 8, circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

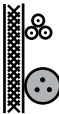
**Table B.52.5 - Current-carrying capacities in amperes
for methods of installation in table B.52.1-
XLPE or EPR insulation/three loaded conductors/copper or aluminium -
Conductor temperature : 90°C, ambient temperature: 30°C in air, 20°C in ground**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	A1	A2	B1	B2	C	D1	D2
1	2	3	4	5	6	7	8
Copper							
1.5	17	16.5	20	19.5	22	21	23
2.5	23	22	28	26	30	28	30
4	31	30	37	35	40	36	39
6	40	38	48	44	52	44	49
10	54	51	66	60	71	58	65
16	73	68	88	80	96	75	84
25	95	89	117	105	119	96	107
35	117	109	144	128	147	115	128
50	141	130	175	154	179	135	153
70	179	164	222	194	229	167	188
95	216	197	269	233	278	197	226
120	249	227	312	268	322	223	257
150	285	259	342	300	371	251	287
185	324	295	384	340	424	281	324
240	380	346	450	398	500	324	375
300	435	396	514	455	576	365	419
Aluminium							
10	44	41	52	48	57	46	
16	58	55	71	64	76	59	64
25	76	71	93	84	90	75	82
35	94	87	116	103	112	90	98
50	113	104	140	124	136	106	117
70	142	131	179	156	174	130	144
95	171	157	217	188	211	154	172
120	197	180	251	216	245	174	197
150	226	206	267	240	283	197	220
185	256	233	300	272	323	220	250
240	300	273	351	318	382	253	290
300	344	313	402	364	440	286	326
NOTE : In columns 3,5,6,7 and 8, circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to shaped conductors and may safely be applied to circular conductors.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

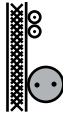
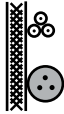
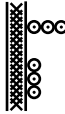
**Table B.52.6 - Current-carrying capacities in amperes for
installation method C of table B.52.1 -
Mineral insulation/copper conductors and sheath -
PVC Covered or bare exposed to touch (see note 2)
Metallic sheath temperature: 70°C/reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Number and arrangement of conductors for method C of table B.52.1		
	Two loaded conductors twin or single-core	Three loaded conductors	
		Multi-core or single core in trefoil formation	Single-core in flat formation
			
1	2	3	4
500 V			
1.5	23	19	21
2.5	31	26	29
4	40	35	38
750 V			
1.5	25	21	23
2.5	34	28	31
4	45	37	41
6	57	48	52
10	77	65	70
16	102	86	92
25	133	112	120
35	163	137	147
50	202	169	181
70	247	207	221
95	296	249	264
120	340	286	303
150	388	327	346
185	440	371	392
240	514	434	457
NOTE 1 For single-core cables in sheaths of the cables of the circuit are connected together at both ends. NOTE 2 For bare cables exposed to touch, values should be multiplied by 0,9.			

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Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

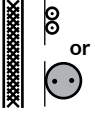
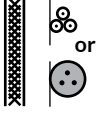
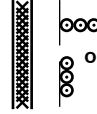
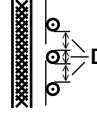
**Tabel B.52.7 - Current-carrying capacities in amperes
for installation method C of table B.52.1-
Mineral insulation/copper conductors and sheath -
Bare cable not exposed to touch and not in contact with combustible material
Metallic sheath temperature: 105°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Number and arrangement of conductors for method C of table B.52.1		
	Two loaded conductors twin or single-core	Three loaded conductors	
		Multi-core or single-core in trefoil formation	Single-core in flat formation
			
1	2	3	4
500 V			
1.5	28	24	27
2.5	38	33	36
4	51	44	47
750 V			
1.5	31	26	30
2.5	42	35	41
4	55	47	53
6	70	59	67
10	96	81	91
16	127	107	119
25	166	140	154
35	203	171	187
50	251	212	230
70	307	260	280
95	369	312	334
120	424	359	383
150	485	410	435
185	550	465	492
240	643	544	572
NOTE 1 For single-core cables. the sheaths of the cables of the circuit are connected together at both ends. NOTE 2 No correction for grouping need be applied. NOTE 3 For this table reference method C refers to masonry wall because the high sheath temperature is not normally acceptable for a wooden wall.			

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

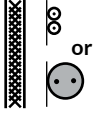
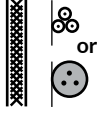
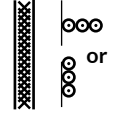
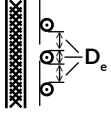
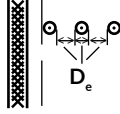
**Table B.52.8 - Current-carrying capacities in amperes
for installation methods E, F and G of table B.52.1 -
Mineral insulation/copper conductors and sheath/PVC covered
or bare exposed to touch (see note 2)
Metallic sheath temperature: 70°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Number and arrangement of cables for methods E, F and G of table B.52.1				
	Two loaded conductors twin or single-core	Three loaded conductors			
		Multi-core or single-core in trefoil formation	Single-core touching	Single-core flat vertical spaced	Single-core horizontal spaced
	Method E or F	Method E or F	Method F	Method G	Method G
					
1	2	3	4	5	6
500 V					
1.5	25	21	23	26	29
2.5	33	28	31	34	39
4	44	37	41	45	51
750 V					
1.5	26	22	26	28	32
2.5	36	30	34	37	43
4	47	40	45	49	56
6	60	51	57	62	71
10	82	69	77	84	95
16	109	92	102	110	125
25	142	120	132	142	162
35	174	147	161	173	197
50	215	182	198	213	242
70	264	223	241	259	294
95	317	267	289	309	351
120	364	308	331	353	402
150	416	352	377	400	454
185	472	399	426	446	507
240	552	466	496	497	565
NOTE 1 For single-core cables. the sheaths of the cables of the circuit are connected together at both ends. NOTE 2 For bare cable exposed to touch, values should be multiplied by 0,9. NOTE 3 D_e is the external diameter of the cable.					

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Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

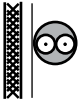
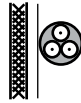
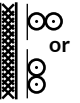
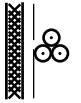
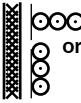
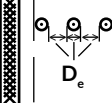
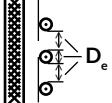
**Tabel B.52.9 - Current-carrying capacities in amperes
for installation methods E, F and G of table B.52.1 -
Mineral insulation/Copper conductors and sheath/
Bare cable not exposed to touch (see note 2)
Metallic sheath temperature: 105°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Number and arrangement of cable for methods E, F and G of table B.52.1				
	Two loaded conductors, twin or single Method E or F	three loaded conductors			
		Multi-core or single-core in trefoil formation Method E or F	Single-core touching Method F	Single-core flat vertical spaced Method G	Single-core horizontal spaced Method G
		Method E or F	Method F	Method G	Method G
					
1	2	3	4	5	6
500 V					
1.5	31	26	29	33	37
2.5	41	35	39	43	49
4	54	46	51	56	64
750 V					
1.5	33	28	32	35	40
2.5	45	38	43	47	54
4	60	50	56	61	70
6	76	64	71	78	89
10	104	87	96	105	120
16	137	115	127	137	157
25	179	150	164	178	204
35	220	184	200	216	248
50	272	228	247	266	304
70	333	279	300	323	370
95	400	335	359	385	441
120	460	385	411	441	505
150	526	441	469	498	565
185	596	500	530	557	629
240	697	584	617	624	704
NOTE 1 For single-core cables, the sheaths of the cables of the circuit are connected together at both ends.					
NOTE 2 No correction for grouping need be applied.					
NOTE 3 D_e is the external diameter of the cable.					

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Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

**Tabel B.52.10 - Current-carrying capacities in amperes
for installation methods E, F and G of table B.52.1-
PVC insulation/copper conductors
Conductor temperature: 70°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	Multi-core cables		Single-core cables				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
			 or 		 or 		
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
1.5	22	18.5	-	-	-	-	-
2.5	30	25	-	-	-	-	-
4	40	34	-	-	-	-	-
6	51	43	-	-	-	-	-
10	70	60	-	-	-	-	-
16	94	80	-	-	-	-	-
25	119	101	131	110	114	146	130
35	148	126	162	137	143	181	162
50	180	153	196	167	174	219	197
70	232	196	251	216	225	281	254
95	282	238	304	264	275	341	311
120	328	276	352	308	321	396	362
150	379	319	406	356	372	456	419
185	434	364	463	409	427	521	480
240	514	430	546	485	507	615	569
300	593	497	629	561	587	709	659
400	-	-	754	656	689	852	795
500	-	-	868	749	789	962	920
630	-	-	1005	855	905	1138	1070
NOTE 1 Circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to sheped conductors and may safely be applied to circular conductors.							
NOTE 2 D_e is the external diameter of the cable.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

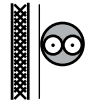
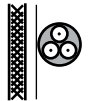
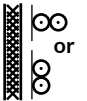
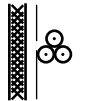
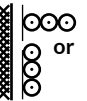
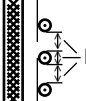
**Tabel B.52.11 - Current-carrying capacities in amperes
for installation methods E, F and G of table B.52.1 -
PVC insulation/Aluminium conductors
Conductor temperature: 70°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	Multi-core cable		Single-core cables				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
	 Method E	 Method E	 Method F	 Method F	 Method F	 Method G	 Method G
10	54	46	-	-	-	-	-
16	73	61	-	-	-	-	-
25	89	78	98	84	87	112	99
35	111	96	122	105	109	139	124
50	135	117	149	128	133	169	152
70	173	150	192	166	173	217	196
95	210	183	235	203	212	265	241
120	244	212	273	237	247	308	282
150	282	245	316	274	287	356	327
185	322	280	363	315	330	407	376
240	380	330	430	375	392	482	447
300	439	381	497	434	455	557	519
400	-	-	600	526	552	671	629
500	-	-	694	610	640	775	730
630	-	-	808	711	746	900	852
NOTE 1 Circular conductors are assumed for sizes up to and including 16 mm ² . Values for larger sizes relate to sheped conductors and may safely be applied to circular conductors.							
NOTE 2 D_e is the external diameter of the cable.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

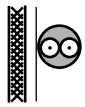
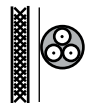
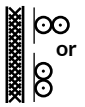
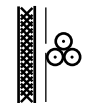
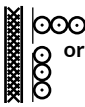
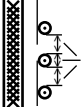
**Tabel B.52.12 - Current-carrying capacities in amperes
for installation methods E, F, and G of table Tabel B.52.1 -
XLPE or EPR insulation/Copper conductors -
Conductor temperature: 90°C/Reference ambient temperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	Multi-core cables		Single-core cables				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Bersentuhan	Spaced	
						Horizontal	Vertical
							
	Method E	Method E	Method F	Method F	Method F	Method G	Method G
1	2	3	4	5	6	7	8
1.5	26	23	-	-	-	-	-
2.5	36	32	-	-	-	-	-
4	49	42	-	-	-	-	-
6	63	54	-	-	-	-	-
10	86	75	-	-	-	-	-
16	115	100	-	-	-	-	-
25	149	127	161	135	141	182	161
35	185	158	200	169	176	226	201
50	225	192	242	207	216	275	246
70	289	246	310	268	279	353	318
95	352	298	377	328	342	430	389
120	410	346	437	383	400	500	454
150	473	399	504	444	464	577	527
185	542	456	575	510	533	661	605
240	641	538	679	607	634	781	719
300	741	621	783	703	736	902	833
400	-	-	940	823	868	1085	1008
500	-	-	1083	946	998	1253	1169
630	-	-	1254	1088	1151	1454	1362
NOTE 1 Circular conductors are assumed for sizes up to and including 16 mm². Values for larger sizes relate to sheped conductors and may safely be applied to circular conductors. NOTE 2 D_e is the external diameter of the cable.							

ELECTRICAL DATA

Current Carrying Capacity refers to IEC 60364-5-52 edition 3.0) for IEC Standard

**Tabel B.52.13 - Current-carrying capacities in amperes
for installation methods E,F and G of table B.52.1 -
XLPE or EPR insulation/aluminium conductors
Conductor temperature: 90°C/Reference ambient atemperature: 30°C**

Nominal cross-sectional area of conductor mm ²	Installation methods of table B.52.1						
	Multi-core cable		Single-core cables				
	Two loaded conductors	Three loaded conductors	Two loaded conductors touching	Three loaded conductors trefoil	Three loaded conductors, flat		
					Touching	Spaced	
						Horizontal	Vertical
	 Method E	 Method E	 Method F	 Method F	 Method F	 Method G	 Method G
10	67	58	-	-	-	-	-
16	91	77	-	-	-	-	-
25	108	97	121	103	107	136	122
35	135	120	150	129	135	172	153
50	164	146	184	159	165	210	188
70	211	187	237	206	215	271	244
95	257	227	289	253	264	332	300
120	300	263	337	296	308	387	351
150	346	304	389	343	358	448	408
185	397	347	447	395	413	515	470
240	470	409	530	471	492	611	561
300	543	471	613	547	571	708	652
400	-	-	740	663	694	856	792
500	-	-	856	770	806	991	921
630	-	-	996	899	942	1154	1077
NOTE Circular conductors are assumed for sizes up to and including 16 mm². Values for larger sizes relate to sheped conductors and may safely be applied to circular conductors. NOTE 2 D_e is the external diameter of the cable.							

CONDITION FOR CURRENT CARRYING CAPACITY

Conditions for determination of deratings are :

* One circuit of three phase load

	Max. Conductor Temperature	Max Temperature Short Circuit
PVC	70°C	160°C
XLPE	90°C	250°C

*No other heat sources installed near the group of cables

	SNI IEC 60502-1 Current Carrying Capacity refers to SNI 0225:2011/Amd 1:2013 (adopted with modification from IEC 60365-5-52 edition 30)	IEC 60502-1 Current Carrying Capacity refers to IEC 60365-5-2
for Cable Direct in Ground		
Ground Temperature	30°C	20°C
Depth of laying	70 cm	80 cm
Specific thermal resistivity of soil	100°C cm/watt	2.5 K m/W
for Cable Laid in Air		
Air temperature	30°C	30°C

- The cable must be protected from solar radiation and should have a large enough space so that heat generated from the loaded cable can be wasted perfectly

DERATING FACTOR

If site conditions are different from the mentioned conditions, the current ratings should be multiplied by the appropriate derating factors as shown in table below

A. GROUPING IN GROUND

1. Ground Temperature

	20	25	30	35	40
PVC Insulation	1.12	1.07	1.00	0.94	0.87
XLPE Insulation	1.08	1.04	1.00	0.96	0.91

2. Thermal Resistivity of Soil

Thermal Resistivity of Soil (°C cm/watt)	70	100	150	250
PVC Insulation	1.11	1.00	0.82	0.70
XLPE Insulation	1.12	1.00	0.87	0.78

3. Depth of Laying

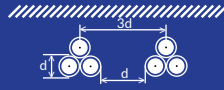
Depth of Laying (cm)	50	70	100	120	160	200
PVC Insulation	1.01	1.00	0.99	0.98	0.97	0.96
XLPE Insulation	1.02	1.00	0.98	0.97	0.95	0.94

4. Multi Core Cable

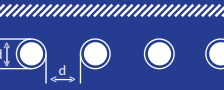
	Number of Grouping							
	1	2	3	4	5	6	8	10
PVC Insulation	1.00	0.85	0.75	0.68	0.64	0.60	0.56	0.53
XLPE Insulation	1.00	0.86	0.76	0.71	0.67	0.64	0.60	0.57

5. Single Core Cable

5.1 Trefoil Formation

	Number of Grouping							
	1	2	3	4	5	6	8	10
PVC Insulation	1.00	0.90	0.82	0.79	0.76	0.74	0.71	0.69
XLPE Insulation	1.00	0.89	0.82	0.78	0.75	0.73	0.70	0.68

5.2 Flat Formation

	Number of Grouping							
	1	2	3	4	5	6	8	10
PVC Insulation	1.00	0.87	0.78	0.74	0.70	0.68	0.65	0.63
XLPE Insulation	1.00	0.85	0.77	0.73	0.70	0.68	0.65	0.63

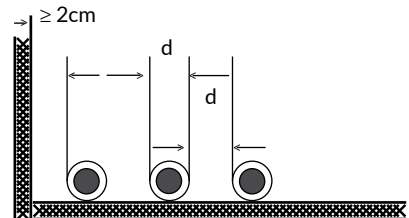
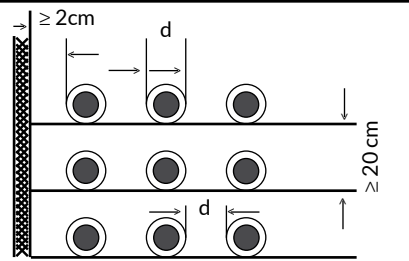
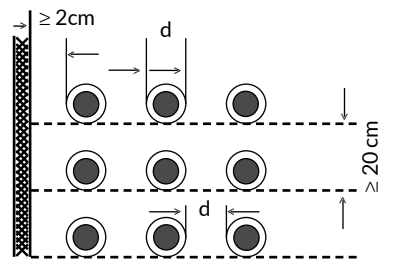
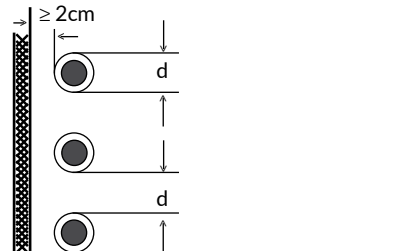
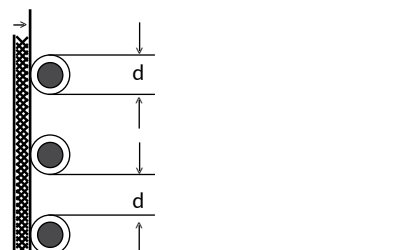
B. GROUPING IN AIR

1. Air Temperature

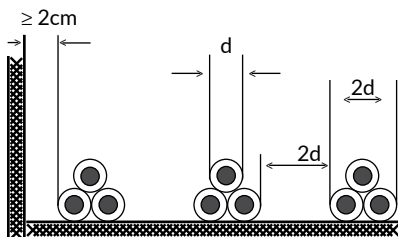
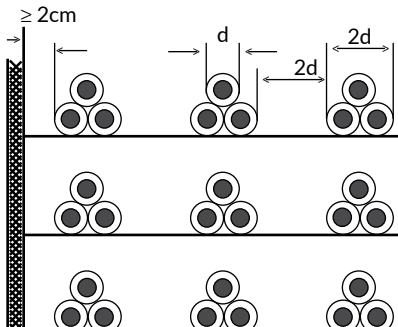
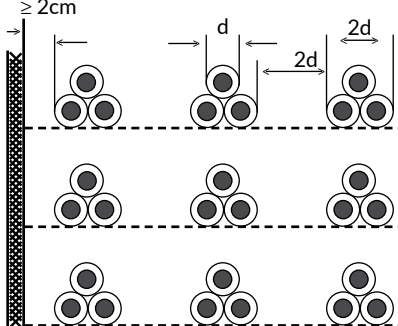
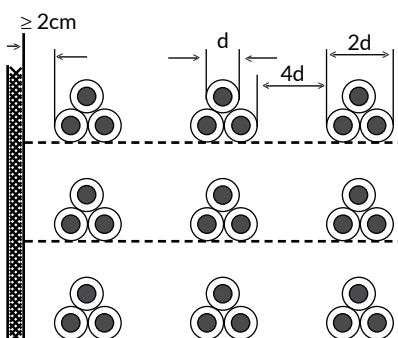
Air Temperature (°C)	20	25	30	35	40
PVC Insulation	1.12	1.06	1.00	0.94	0.87
XLPE Insulation	1.08	1.04	1.00	0.96	0.91

2. Single Core Cable in Three Phase System

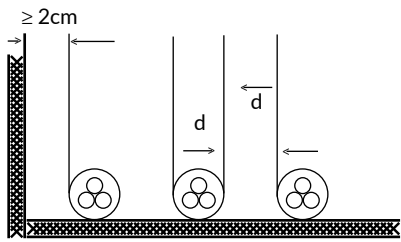
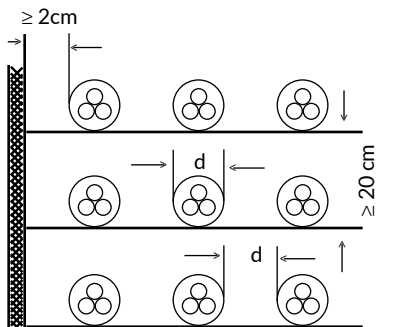
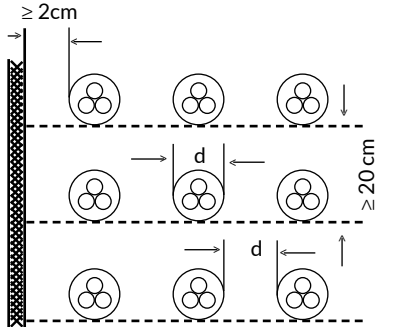
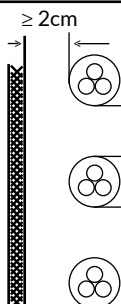
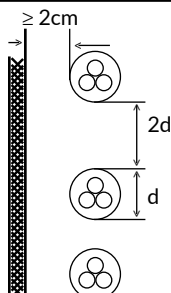
2.1 Flat Formation

Distance from the wall $\geq 2\text{ cm}$ Clearance between cables= cable diameter (d)		Number of Circuit			
		1	2	3	
		Rating Factors			
Cables laid on the ground		0.92	0.89	0.88	
Cable laid on troughs (air circulation restricted)	Numb. of troughs				
	1	0.92	0.89	0.88	
	2	0.87	0.84	0.83	
	3	0.84	0.82	0.81	
	6	0.82	0.80	0.79	
Cable laid on racks	Numb. of racks				
	1	1.00	0.97	0.96	
	2	0.97	0.94	0.93	
	3	0.96	0.93	0.92	
	6	0.94	0.91	0.90	
Arranged near the wall		0.94	0.91	0.89	
Arranged on the wall		0.89	0.86	0.84	

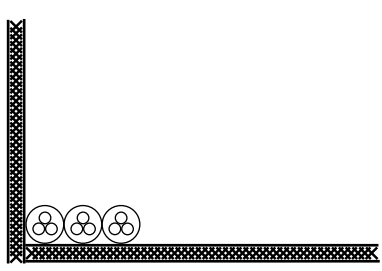
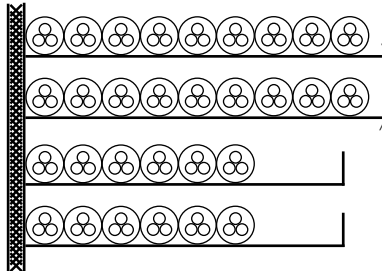
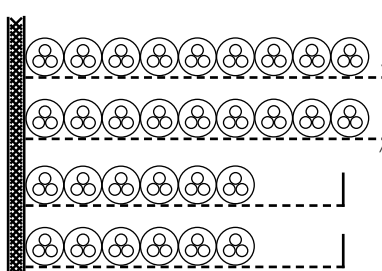
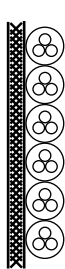
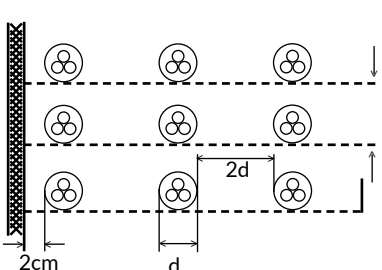
2.2 Trefoil Formation

Distance from the wall $\geq 2\text{ cm}$ Clearance between cables= $2 \times \text{cable diameter } (2d)$		Number of Circuit			
		1	2	3	
		Rating Factors			
Cables laid on the ground (air circulation is restricted)		0.95	0.90	0.88	
Cable laid on troughs	Numb. of troughs				
	1	0.95	0.90	0.88	
	2	0.90	0.85	0.83	
	3	0.88	0.83	0.81	
	6	0.86	0.81	0.79	
Cable laid on racks	Numb. of racks				
	1	1.00	0.98	0.96	
	2	1.00	0.95	0.93	
	3	1.00	0.94	0.92	
	6	1.00	0.93	0.90	
Arrangements without reducing current rating (for all system)		Distance from the wall $\geq 2\text{ cm}$ Clearance between cables = $4 \times \text{cable diameter } (4d)$			

3. Multi Core in Three Phase System and Single Core Cable in DC System
3.1 Flat Formation

Distance from the wall $\geq 2\text{ cm}$ Clearance between cables= cable diameter (d)		Number of Circuit					
		1	2	3	6	9	
		Rating Factors					
Cables laid on the ground		0.95	0.90	0.88	0.85	0.84	
Cable laid on troughs (air circulation is restricted))	Numb. of troughs						
	1	0.95	0.90	0.88	0.85	0.84	
	2	0.90	0.85	0.83	0.81	0.80	
	3	0.88	0.83	0.81	0.79	0.78	
	6	0.86	0.81	0.79	0.77	0.76	
Cable laid on racks	Numb. of racks						
	1	1.00	0.98	0.96	0.93	0.92	
	2	1.00	0.95	0.93	0.90	0.89	
	3	1.00	0.94	0.92	0.89	0.88	
	6	1.00	0.93	0.90	0.87	0.86	
Cables arranged near the wall		1.00	0.93	0.90	0.87	0.86	
Arrangements for which reduction on the current is not necessary		Distance from the wall $\geq 2\text{ cm}$					
		Clearance between cables = $2 \times \text{diameter } (2d)$					

3.2 Cable Touching

Cable touching throughout and in contact with the wall		Number of Circuit					
		1	2	3	6	9	
		Rating Factors					
Cables laid on the ground		0.90	0.84	0.80	0.75	0.73	
Cable laid on troughs (air circulation is restricted)	Numb. of troughs						
	1	0.95	0.84	0.80	0.75	0.73	
	2	0.95	0.80	0.76	0.71	0.69	
	3	0.95	0.78	0.74	0.70	0.68	
	6	0.95	0.76	0.72	0.68	0.66	
Cable laid on racks	Numb. of racks						
	1	0.95	0.84	0.80	0.75	0.73	
	2	0.95	0.80	0.76	0.71	0.69	
	3	0.95	0.78	0.74	0.70	0.68	
	6	0.95	0.76	0.72	0.68	0.66	
Cables arranged near the wall		0.95	0.78	0.73	0.68	0.66	
Arrangement without reducing current rating (for all system)		Distance from the wall >2cm Clearance between Cables = 2 x cable diameter (2d)					

RECOMMENDATION FOR BENDING AND PULLING TENSION

Table 1 - Installation Bending Radius for Low Voltage Cables

Type of Cable	Multiplying Factor	
	Installation bending radius	
	During Installation	Fixed Installation
Single Core (Un-armoured, Armoured) Multi-core (Un-armoured and Steel Wire Armoured)	12	8
Multi-core (Steel Tape Armoured)	15	8

Table 2 - Installation Bending Radius for Medium Voltage Cables

Cable outermost sheath or covering	Factor to be multiplied by overall diameter of cable	
	During Installation	Fixed Installation
PVC	15	10
HDPE and SHF1 (LSZH)	20	15
Lead Sheated (Un-Armoured)	18	12
Lead Sheathed Armoured	15	10

Table 3 - Permissible maximum pulling tension

Pulling tool	Material of conductor	Permissible maximum pulling tension (kg)
Pulling eye	Copper	$7 \times (\text{Number of core}) \times (\text{Cross-sectional area of conductor})$
	Aluminium	$4 \times (\text{Number of core}) \times (\text{Cross-sectional area of conductor})$
Cable Grip	Copper and Aluminium	The same as using the pulling eye, but the maximum tension should be less than two tons.

Note : When cable grip is used it should cover more than 500 mm in length of the cable end be bound to the cable sheath

VOLTAGE DROP

Formula :

$$V_d = (L \times I \times V_c) / 1000$$

for Single Phase $V_c = 2Z$

for 3-Phase $V_c = \sqrt{3}Z$

$$Z = \sqrt{(R^2 + X^2)}$$

$$\%V_d = (100/V_o) \times (L \times I \times V_c) / 1000$$

$$\text{or} = (L \times I \times V_c) / (10 \times V_o)$$

$$(L \times I) / \%V_d = (10 \times V_o) / V_c$$

Where,

V_d = Actual Voltage Drop on Circuit; in Volts, V

L = Route length of circuit; in meters, m

I = Circuit current, in amperes, A

V_c = Cable Voltage drop per ampere-meter length of the circuit; in millivolts per ampere-meter, mV/Am

$\%V_d$ = Actual Voltage Drop in Circuit as a fraction of circuit-operating voltage; in percentage, %

V_o = Circuit-operating voltage; in volts, V

R = Effective resistance at maximum operating temperature

X = Reactance of conductor

VOLTAGE DROP-SIMPLIFIED METHOD

XLPE Power Cable Type 0.6/1 kV Copper Conductor									
Nominal Sectional Area	Max. AC Conductor Resistance at 90°C (R)	Reactance at 50 Hz (X)			Impedance (Z)	Voltage Drop per Amp per meter 1 Phase (Vc = 2Z)	Voltage Drop per Amp per meter 3 Phase (Vc = √3Z)	Am per % Voltage Drop Value	
		Multi Core	Single Core					Single-phase (230 V) Circuit	Three-phase (400 V) Circuit
			Trefoil	Flat Spaced					
mm²	Ohm/km	Ohm/km	Ohm/km	Ohm/km	Ohm/km	mV/Am	mV/Am	Am per % Vd	Am per % Vd
1.5	15.43	0.108	0.150	0.121	15.43	30.86	26.73	75	150
2.5	9.449	0.101	0.138	0.109	9.45	18.9	16.37	122	244
4	5.878	0.094	0.128	0.099	5.88	11.76	10.18	196	393
6	3.927	0.090	0.120	0.091	3.93	7.86	6.81	293	587
10	2.333	0.085	0.111	0.082	2.33	4.66	4.04	494	990
16	1.467	0.081	0.104	0.075	1.47	2.94	2.55	782	1569
25	0.927	0.081	0.100	0.071	0.93	1.86	1.61	1237	2484
35	0.668	0.079	0.095	0.066	0.67	1.34	1.16	1716	3448
50	0.494	0.078	0.089	0.061	0.50	1.00	0.87	2300	4598
70	0.342	0.077	0.087	0.058	0.35	0.7	0.61	3286	6557
95	0.247	0.075	0.084	0.055	0.26	0.52	0.45	4423	8889
120	0.196	0.074	0.082	0.053	0.21	0.42	0.36	5476	11111
150	0.159	0.074	0.081	0.052	0.18	0.36	0.31	6389	12903
185	0.128	0.074	0.081	0.052	0.15	0.3	0.26	7667	15385
240	0.098	0.073	0.079	0.050	0.12	0.24	0.21	9583	19048
300	0.079	0.072	0.078	0.049	0.11	0.22	0.19	10455	21053
400	0.063	-	0.077	0.048					
500	0.051	-	0.076	0.047					
630	0.041	-	0.076	0.047					

PVC Power Cable Type 0.6/1 kV Copper Conductor									
Nominal Sectional Area	Max. AC Conductor Resistance at 70°C (R)	Reactance at 50 Hz (X)			Impedance (Z)	Voltage Drop per Amp per meter 1 Phase (Vc = 2Z)	Voltage Drop per Amp per meter 3 Phase (Vc = √3Z)	Am per % Voltage Drop Value	
		Multi Core	Single Core					Single-phase (230 V) Circuit	Three-phase (400 V) Circuit
			Trefoil	Flat Spaced					
mm²	Ohm/km	Ohm/km	Ohm/km	Ohm/km	Ohm/km	mV/Am	mV/Am	Am per % Vd	Am per % Vd
1.5	14.48	0.112	0.152	0.123	14.48	28.96	25.08	79	159
2.5	8.866	0.104	0.140	0.111	8.87	17.74	15.36	130	260
4	5.516	0.103	0.133	0.104	5.52	11.04	9.56	208	418
6	3.685	0.098	0.125	0.096	3.69	7.38	6.39	312	626
10	2.190	0.092	0.115	0.086	2.19	4.38	3.79	525	1055
16	1.376	0.087	0.108	0.079	1.38	2.76	2.39	833	1674
25	0.870	0.086	0.103	0.074	0.87	1.74	1.51	1322	2649
35	0.627	0.083	0.098	0.069	0.63	1.26	1.09	1825	3670
50	0.463	0.084	0.093	0.064	0.47	0.94	0.81	2447	4938
70	0.321	0.081	0.089	0.060	0.33	0.66	0.57	3485	7018
95	0.232	0.080	0.087	0.058	0.25	0.50	0.43	4600	9302
120	0.184	0.077	0.084	0.055	0.2	0.40	0.35	5750	11429
150	0.150	0.077	0.084	0.055	0.17	0.34	0.29	6765	13793
185	0.120	0.077	0.083	0.054	0.14	0.28	0.24	8214	16667
240	0.092	0.076	0.081	0.052	0.12	0.24	0.21	9583	19048
300	0.074	0.076	0.081	0.052	0.11	0.22	0.19	10455	21053
400	0.060	-	0.080	0.051					
500	0.048	-	0.079	0.050					
630	0.039	-	0.077	0.048					

Example : (PVC Power Cable)

To find minimum cable size for given circuit conditions

What Size Cable would be necessary to carry 50 A over a route length of 75 m with a maximum Voltage drop of 2.5 % ?

Step	Process	Calculation
1	Determine required Am by multiplying Current by route length	$50 \times 75 = 3750 \text{ Am}$
2	Determine required capacity for permitted voltage drop, Am per % Vd	$3750/2.5 = 1500 \text{ Am per \% Vd}$
3	Look Up Am per % Vd value in table which is not less than required value	Single phase Circuit : 35 mm ² (1825 Am per % Vd) Three-phase Circuit : 16 mm ² (1674 Am per % Vd)

To Find voltage drop in a given Circuit

What is the voltage drop (%) for a single-phase circuit carrying 30 A over length of 25 m ?

Step	Process	Calculation
1	Determine required Am by multiplying Current by route length	$30 \times 25 = 750 \text{ Am}$
2	Look Up Am per % Vd value in table for Possible cable sizes	4 mm ² = 208 Am per % Vd 6 mm ² = 312 Am per % Vd 10 mm ² = 525 Am per % Vd
3	Divided required Am by Am per % Vd Values for possible cable size	$4 \text{ mm}^2 = 750/208 = 3.61 \%$ $6 \text{ mm}^2 = 750/312 = 2.40 \%$ $10 \text{ mm}^2 = 750/525 = 1.43 \%$



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