JEMBO CABLE

ISO 9001 QUALITY SYSTEM | ISO 14001 ENVIRONMENT SYSTEM | ISO 45001 HEALTH & SAFETY SYSTEM | SMK3 PP NO. 50/2012

CATALOGUE

LOW VOLTAGE CABLE PVC

SNI SPLN LMK KAN Komite Akreditasi Nasional LSPr-047-IDN APKABEL

www.jembo.co.id

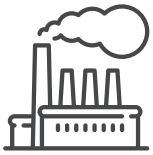
TOGETHER WE GROW

PT JEMBO CABLE COMPANY Tbk.

COMPANY BACKGROUND

PT Jembo Cable Company Tbk. is a publicly held company which manufactures multiple lines of power and telecommunication cable products allowing to better service its three major markets:

Infrastructure



Industries

Building and Construction

Since its incorporation in April 1973, PT Jembo Cable Company Tbk., continuously added its product variety, starting from Copper Conductor Low Voltage Electrical Cable, followed by Aluminum Conductor Low Voltage Cable, further Medium Voltage Cable, and later on also Phone Cable and Fiber Optic Cable, and further to it Fire Resistant Cable, Intrumentation Cable, Airfield Lighting Cable, Marine Cable (Offshore) and also Metal Corrugated Cable.

On 18th November 1992, the Company for the first time listed its shares in the Jakarta Stock Exchange (currently Indonesian Stock Exchange). In the same year, to develop and improve its technology, the Company entered into a cooperation agreement in the technical field with Fujikura Ltd., one of the foremost cable company from Japan. In 1993, the Company became the pioneer on production of fiber optic cable in Indonesia.

Quality is the most important thing for the Company and it is closely integrated into the Company's daily performance. To continue to support and maintain the quality of goods and services, the Company has invested heavily by providing equipment and supplies in the field of Quality Control and in an effort to improve and maintain the quality of goods and services, the Company has obtained ISO 9002 certificate from TUV Product Service GmbH in 1995 and ISO 9001 certificate in 2000, then continuously renewed until the ISO 9001:2015 certificate issued by TUV Rheinland in 2018.

In December 2007, the Company obtained a ISO 14001:2004 certificate for Environment Management System, which was later renewed by ISO 14001:2015 certificate in 2018. In April 2021, the Company updated the Occupational Health and Safety Management System standard from OHSAS 18001:2007 to ISO 45001:2018, certificate issued by TUV Rheinland.

By Improvement and experience of more than fifty years, and the spirit of “TOGETHER WE GROW”, the Company is able to become a foremost producer in the wire and cable industry.

CONTENT

COMPARISON TYPE OF INDONESIA & CHINA CABLE

Power Cable

INDONESIA			CHINA		
Type of Cable	Bedding/Inner Sheath	Outer Sheath	Type of Cable	Bedding/Inner Sheath	Outer Sheath
NYA (CU/PVC)	-	-	BV	-	-
NYY (CU/PVC/PVC)	X	X	VV or ZR-VV	-	X
NYBY (CU/PVC/DSTA/PVC)	X	X	VV22 or ZR-VV22	X	X
NYR(Al)Y (CU/PVC/AWA/PVC)	X	X	VV72 or ZR-VV72	X	X
NYRY (CU/PVC/SWA/PVC)	X	X	VV32 or ZR-VV32	X	X

Control Cable

INDONESIA			CHINA		
Type of Cable	Bedding/Inner Sheath	Outer Sheath	Type of Cable	Bedding/Inner Sheath	Outer Sheath
NYY (CU/PVC/PVC)	X	X	KVV or ZR-KVV	-	X
CU/PVC/SWB/PVC	X	X	KVVP or ZR-KVVP	X	X
NYBY (CU/PVC/DSTA/PVC)	X	X	KVV22 or ZR-KVV22	X	X
NYRY (CU/PVC/SWA/PVC)	X	X	KVV32 or ZR-KVV32	X	X
NYSY (CU/PVC/CTS/PVC)	X	X	KVVP2 or ZR-KVVP2	X	X

NYA (CU/PVC) or BV

(Copper Conductor, and PVC Insulated)

Specification:

SNI 04-6629.3-2006,

IEC 60227-3 IEC 01

Other specification are available on request

Rated Voltage : 450/750 Volt

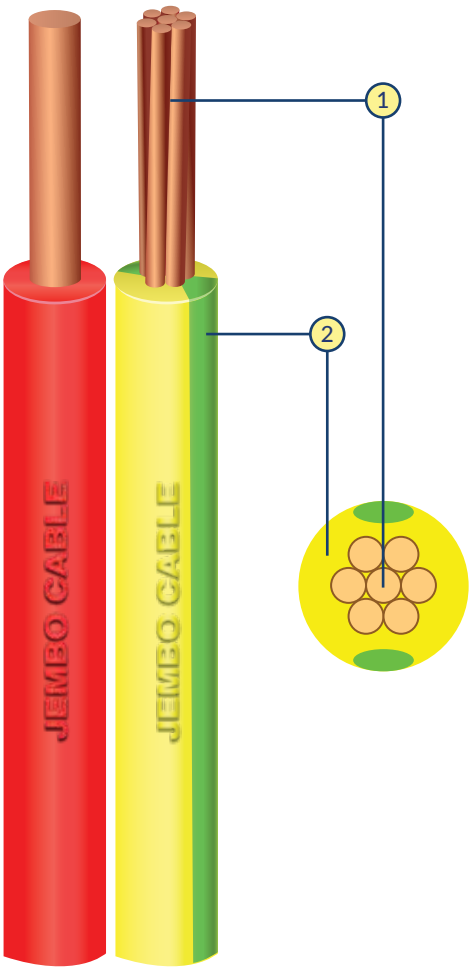
Size Range : 1.5mm² s/d 400 mm²

Application:

Permanent instalation in conduit or exposed wiring in dry location, also as building wires, grounding cable

Construction:

1. Annealed Copper Wire
2. Extruded PVC Insulation



Identification of Cores

Yellow with Green Stripe (Y/G)

Yellow

Black

Blue

Red

Special Features on Request:

- Heat Resistant

NYA (CU/PVC) or BV

(Copper Conductor, and PVC Insulated)

Rated Voltage : **450/750 V**
Specification : SNI 04-6629.3-2006, IEC 60227-3 IEC 01

CONSTRUCTION

Conductor			Insulation		Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Nom. Thickness	Approx Overall Diameter			
mm²	-	-	mm	mm	kg/km	m	-
1.5	re / rm	1/7	0.7	2.8 & 3.0	2	100	Coil
2.5	re / rm	1/7	0.8	3.4 & 3.6	3	100	Coil
4	re / rm	1/7	0.8	3.8 & 4.1	4	100	Coil
6	re / rm	1/7	0.8	4.3 & 4.7	11	100	Coil
10	re / rm	1/7	1.0	5.5 & 6.0	11	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	3459	1000	Drum
150	rm	37	1.8	19.0	4275	1000	Drum
185	rm	37	2.0	21.3	5344	1000	Drum
240	rm	61	2.2	24.2	7013	1000	Drum
300	rm	61	2.4	27.0	8748	1000	Drum
400	rm	61	2.6	30.4	14937	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	Insulation Resistance at 70°C	In Pipe	In Air		
mm²	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

Note:
* Current Carrying Capacity refers to SNI 0225:2011/Amd 1:2013 (Table K.52.3.1)

NYM (CU/PVC/PVC)

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Specification:

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

SPLN 42-2:1992

Other specification are available on request

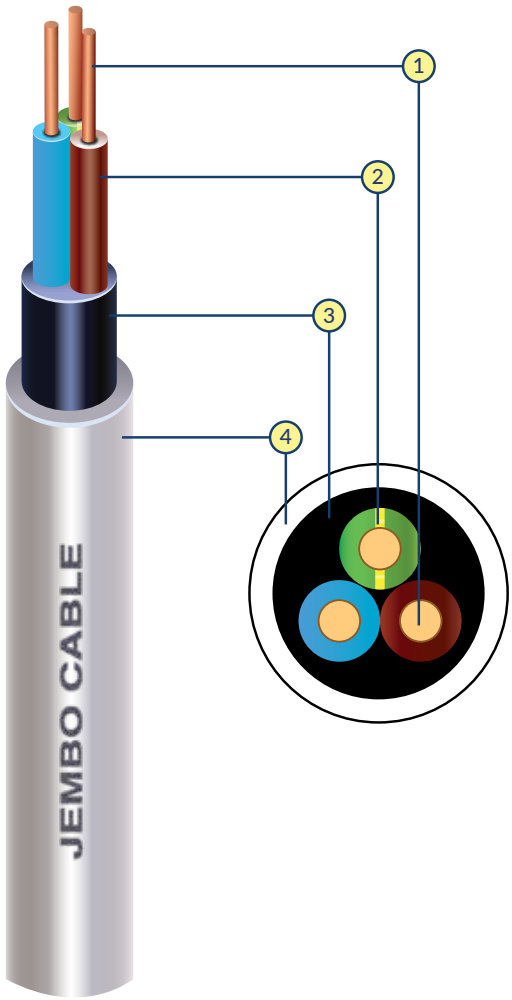
Rated Voltage	: 300/500 Volt
Size Range	: 2 x 1.5 ... 35 mm²
	3 x 1.5 ... 35 mm²
	4 x 1.5 ... 35 mm²
	5 x 1.5 ... 35 mm²

Application:

Permanent instalation or power circuit, indoor/outdoor lay in rack cable tray or underground, in conduit under plaster 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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Special Features on Request:

- Heat Resistant

NYM (CU/PVC/PVC)

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **300/500 V**
Specification : SNI 04-2699-1999, IEC 60227-4 IEC 10, SPLN 42-2:1992

CONSTRUCTION

Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
2 CORE								
1.5	re	1	0.7	1.2	9.0	11	100	Coil
2.5	re	1	0.8	1.2	10.2	15	100	Coil
4	re	1	0.8	1.2	11.0	19	100	Coil
6	re	1	0.8	1.2	12.0	25	100	Coil
10	re	1	1.0	1.2	14.8	39	100	Coil
16	rm	7	1.0	1.2	17.8	59	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	13	100	Coil
2.5	re	1	0.8	1.2	10.7	18	100	Coil
4	re	1	0.8	1.2	11.6	24	100	Coil
6	re	1	0.8	1.2	12.7	31	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

ELECTRICAL DATA

Conductor			Current Carrying Capacity in Air		Short Circuit Current at 1 Sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Insulation Resistance at 70°C	at 30°C	at 40°C		
mm²	Ohm/km	M.Ohm.km	Ampere		kA	kV/5 min.
2 CORE						
1.5	12.1	0.011	19	16	0.17	2.0
2.5	7.41	0.010	25	22	0.27	2.0
4	4.61	0.0085	34	30	0.44	2.0
6	3.08	0.070	44	39	0.65	2.0
10	1.83	0.007	61	53	1.10	2.0
16	1.15	0.0052	82	71	1.75	2.0
25	0.727	0.0050	108	94	2.76	2.0
35	0.524	0.0044	134	117	3.83	2.0
3 CORE						
1.5	12.1	0.011	19	16	0.17	2.0
2.5	7.41	0.010	25	22	0.27	2.0
4	4.61	0.0085	34	30	0.44	2.0
6	3.08	0.070	44	39	0.65	2.0
10	1.83	0.007	61	53	1.10	2.0
16	1.15	0.0052	82	71	1.75	2.0
25	0.727	0.0050	108	94	2.76	2.0
35	0.524	0.0044	134	117	3.83	2.0

Note:
* Current Carrying Capacity refers to SNI 04-2699-1999

NYM (CU/PVC/PVC)

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **300/500 V**
Specification : SNI 04-2699-1999, IEC 60227-4 IEC 10, SPLN 42-2:1992

CONSTRUCTION

Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
4 CORE								
1.5	re	1	0.7	1.2	10.2	16	100	Coil
2.5	re	1	0.8	1.2	11.6	22	100	Coil
4	re	1	0.8	1.2	12.6	30	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	19	100	Coil
2.5	re	1	0.8	1.2	12.6	26	100	Coil
4	re	1	0.8	1.2	14.1	36	100	Coil
6	re	1	0.8	1.2	15.4	48	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

ELECTRICAL DATA

Conductor			Current Carrying Capacity in Air		Short Circuit Current at 1 Sec.	AC Voltage Test
Nom. Cross Section Area	Max. DC Resistance at 20°C	Insulation Resistance at 70°C	at 30°C	at 40°C		
mm²	Ohm/km	M.Ohm.km	Ampere		kA	kV/5 min.
4 CORE						
1.5	12.1	0.011	19	16	0.17	2.0
2.5	7.41	0.010	25	22	0.27	2.0
4	4.61	0.0085	34	30	0.44	2.0
6	3.08	0.070	44	39	0.65	2.0
10	1.83	0.007	61	53	1.10	2.0
16	1.15	0.0052	82	71	1.75	2.0
25	0.727	0.0050	108	94	2.76	2.0
35	0.524	0.0044	132	117	3.83	2.0
5 CORE						
1.5	12.1	0.011	19	16	0.17	2.0
2.5	7.41	0.010	25	22	0.27	2.0
4	4.61	0.0085	34	30	0.44	2.0
6	3.08	0.070	44	39	0.65	2.0
10	1.83	0.007	61	53	1.10	2.0
16	1.15	0.0052	82	71	1.75	2.0
25	0.727	0.0050	108	94	2.76	2.0
35	0.524	0.0044	132	117	3.83	2.0

Note:
* Current Carrying Capacity refers to SNI 04-2699-1999

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

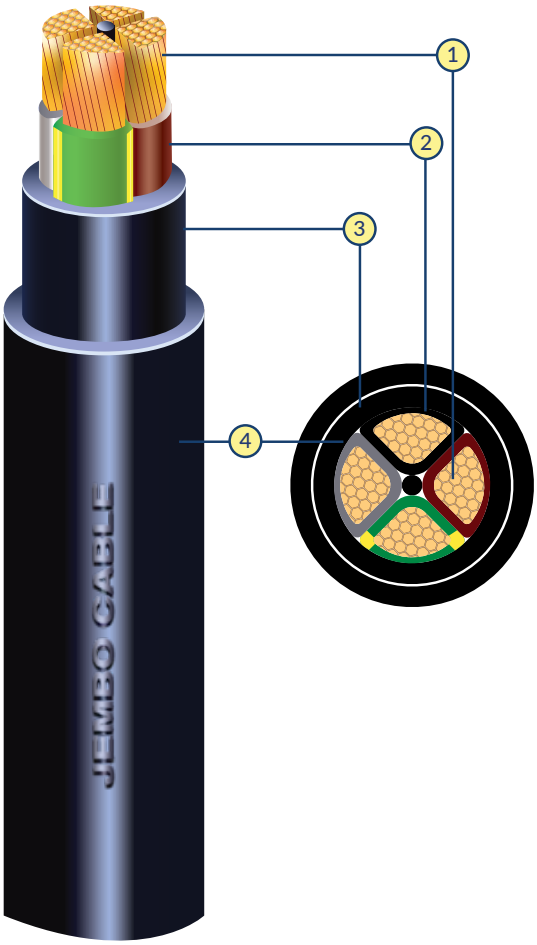
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 1 x 1.5 ... 500 mm²
	2 x 1.5 ... 150 mm²
	3 x 1.5 ... 300 mm²
	4 x 1.5 ... 300 mm²
	5 x 1.5 ... 50 mm²

Application:

Permanent instalation or power circuit, indoor/outdoor lay in rack cable tray or underground, in conduit under plaster 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
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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Other colors are available on request

Special Features on Request:

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

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

1 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.4	6.2	54	100	Coil
2.5	re/rm	1/7	0.8	1.4	6.6	66	100	Coil
4	re/rm	1/7	1.0	1.4	7.5	92	100	Coil
6	re/rm	1/7	1.0	1.4	8.1	116	100	Coil
10	re/rm	1/7	1.0	1.4	9.0	163	100	Coil
16	rm	7	1.0	1.4	10.0	226	100	Coil
25	rm	7	1.2	1.4	11.7	334	1000	Drum
35	rm	7	1.2	1.4	12.8	434	1000	Drum
50	rm	19	1.4	1.4	14.5	566	1000	Drum
70	rm	19	1.4	1.4	16.3	773	1000	Drum
95	rm	19	1.6	1.5	18.7	1053	1000	Drum
120	rm	37	1.6	1.5	20.3	1286	1000	Drum
150	rm	37	1.8	1.6	22.4	1582	1000	Drum
185	rm	37	2.0	1.7	24.9	1967	1000	Drum
240	rm	61	2.2	1.8	28.0	2560	1000	Drum
300	rm	61	2.4	1.9	31.0	3177	1000	Drum
400	rm	61	2.6	2.0	34.6	4041	1000	Drum
500	rm	61	2.8	2.1	38.5	5127	1000	Drum
630	rm	127	2.8	2.2	42.6	6439	500	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)		Current Carrying Capacity at 30°C		Short Circuit Current at 1 Sec.	AC Voltage Test
				Flat Formation	Trefoil Formation				
Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C			In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.122	0.152	40	26	0.17	3.5
2.5	7.41	8.866	50	0.111	0.140	54	35	0.27	3.5
4	4.61	5.516	50	0.104	0.133	70	46	0.44	3.5
6	3.08	3.685	40	0.095	0.125	90	58	0.65	3.5
10	1.83	2.190	30	0.086	0.115	122	79	1.10	3.5
16	1.15	1.376	30	0.078	0.108	160	105	1.75	3.5
25	0.727	0.870	30	0.073	0.103	206	140	2.76	3.5
35	0.524	0.627	20	0.069	0.098	249	174	3.83	3.5
50	0.387	0.463	20	0.064	0.093	296	212	5.19	3.5
70	0.268	0.321	20	0.059	0.089	365	269	7.49	3.5
95	0.193	0.232	20	0.058	0.087	438	331	10.41	3.5
120	0.153	0.184	20	0.055	0.084	499	386	13.13	3.5
150	0.124	0.150	20	0.054	0.084	561	442	16.20	3.5
185	0.0991	0.120	20	0.054	0.083	637	511	20.27	3.5
240	0.0754	0.092	20	0.052	0.081	743	612	26.64	3.5
300	0.0601	0.074	20	0.051	0.081	843	707	33.42	3.5
400	0.0470	0.060	20	0.050	0.080	986	859	42.74	3.5
500	0.0366	0.048	20	0.049	0.079	1125	1000	54.88	3.5
630	0.0283	0.039	20	0.047	0.077	1306	1183	70.97	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	12.2	192	1000	Drum
2.5	re/rm	1/7	0.8	1.8	13.0	228	1000	Drum
4	re/rm	1/7	1.0	1.8	14.8	308	1000	Drum
6	re/rm	1/7	1.0	1.8	16.0	379	1000	Drum
10	re/rm	1/7	1.0	1.8	17.8	507	1000	Drum
16	rm	7	1.0	1.8	19.8	677	1000	Drum
25	rm	7	1.2	1.8	23.2	978	1000	Drum
35	rm	7	1.2	1.8	25.4	1240	1000	Drum
50	rm	19	1.4	1.8	28.8	1613	1000	Drum
70	rm	19	1.4	1.9	33.0	2202	1000	Drum
95	rm	19	1.6	2.1	37.8	2963	1000	Drum
120	rm	37	1.6	2.2	41.2	3600	500	Drum
150	rm	37	1.8	2.3	45.6	4430	500	Drum
185	rm	37	2.0	2.4	50.4	5465	300	Drum
240	rm	61	2.2	2.6	57.0	7099	300	Drum
300	rm	61	2.4	2.8	63.0	8763	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4	4.61	5.516	50	0.103	54	37	0.44	3.5
6	3.08	3.685	40	0.098	68	48	0.65	3.5
10	1.83	2.190	30	0.092	92	66	1.10	3.5
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
50	0.387	0.463	20	0.080	222	176	5.19	3.5
70	0.268	0.321	20	0.078	272	224	7.49	3.5
95	0.193	0.232	20	0.077	328	271	10.41	3.5
120	0.153	0.184	20	0.075	375	314	13.13	3.5
150	0.124	0.150	20	0.075	419	361	16.20	3.5
185	0.0991	0.120	20	0.075	475	412	20.27	3.5
240	0.0754	0.092	20	0.074	525	484	26.64	3.5
300	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	12.7	216	1000	Drum
2.5	re/rm	1/7	0.8	1.8	13.6	263	1000	Drum
4	re/rm	1/7	1.0	1.8	15.5	361	1000	Drum
6	re/rm	1/7	1.0	1.8	16.8	452	1000	Drum
10	re/rm	1/7	1.0	1.8	18.8	618	1000	Drum
16	rm	7	1.0	1.8	20.9	842	1000	Drum
25	rm	7	1.2	1.8	24.6	1233	1000	Drum
35	rm	7	1.2	1.8	27.0	1582	1000	Drum
50	sm	19	1.4	1.9	27.0	1744	1000	Drum
70	sm	19	1.4	2.0	29.9	2376	1000	Drum
95	sm	19	1.6	2.2	34.8	3263	1000	Drum
120	sm	37	1.6	2.3	37.6	3981	1000	Drum
150	sm	37	1.8	2.4	41.2	4859	500	Drum
185	sm	37	2.0	2.6	45.9	6065	500	Drum
240	sm	37	2.2	2.8	51.4	7839	300	Drum
300	sm	37	2.4	2.9	56.9	9754	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.084	185	159	5.19	3.5
70	0.268	0.321	20	0.081	228	202	7.49	3.5
95	0.193	0.232	20	0.080	275	244	10.41	3.5
120	0.153	0.184	20	0.078	313	282	13.13	3.5
150	0.124	0.150	20	0.078	353	324	16.20	3.5
185	0.0991	0.120	20	0.078	399	371	20.27	3.5
240	0.0754	0.092	20	0.077	464	436	26.64	3.5
300	0.0601	0.074	20	0.077	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	13.5	254	1000	Drum
2.5	re/rm	1/7	0.8	1.8	14.5	313	1000	Drum
4	re/rm	1/7	1.0	1.8	16.7	437	1000	Drum
6	re/rm	1/7	1.0	1.8	18.1	553	1000	Drum
10	re/rm	1/7	1.0	1.8	20.3	766	1000	Drum
16	rm	7	1.0	1.8	22.7	1056	1000	Drum
25	rm	7	1.2	1.8	26.9	1561	1000	Drum
35	rm	7	1.2	1.8	29.5	2015	1000	Drum
50	sm	19	1.4	2.0	30.9	2306	1000	Drum
70	sm	19	1.4	2.1	35.2	3187	1000	Drum
95	sm	19	1.6	2.3	40.4	4330	500	Drum
120	sm	37	1.6	2.4	44.2	5329	500	Drum
150	sm	37	1.8	2.6	48.7	6531	500	Drum
185	sm	37	2.0	2.7	53.9	8113	300	Drum
240	sm	37	2.2	3.0	60.7	10516	300	Drum
300	sm	37	2.4	3.2	67.0	13046	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.082	185	159	5.19	3.5
70	0.268	0.321	20	0.079	228	202	7.49	3.5
95	0.193	0.232	20	0.078	275	244	10.41	3.5
120	0.153	0.184	20	0.076	313	282	13.13	3.5
150	0.124	0.150	20	0.076	353	324	16.20	3.5
185	0.0991	0.120	20	0.076	399	371	20.27	3.5
240	0.0754	0.092	20	0.075	464	436	26.64	3.5
300	0.0601	0.074	20	0.075	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or VV

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	14.4	289	1000	Drum
2.5	re/rm	1/7	0.8	1.8	15.5	359	1000	Drum
4	re/rm	1/7	1.0	1.8	18.0	506	1000	Drum
6	re/rm	1/7	1.0	1.8	19.6	646	1000	Drum
10	re/rm	1/7	1.0	1.8	22.0	904	1000	Drum
16	rm	7	1.0	1.8	24.7	1256	1000	Drum
25	rm	7	1.2	1.8	29.3	1866	1000	Drum
35	rm	7	1.2	1.9	32.9	2465	1000	Drum
50	rm	19	1.4	2.1	37.9	3263	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4	4.61	5.516	50	0.103	31	26	0.44	3.5
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5
50	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or KVV

CONTROL CABLE

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

Rated Voltage : 0.6/1 kV (1.2 kV)

Size Range : 6 ... 61 x 1.5 mm²

6 ... 61 x 2.5 mm²

6 ... 61 x 4 mm²

6 ... 61 x 6 mm²

Application:

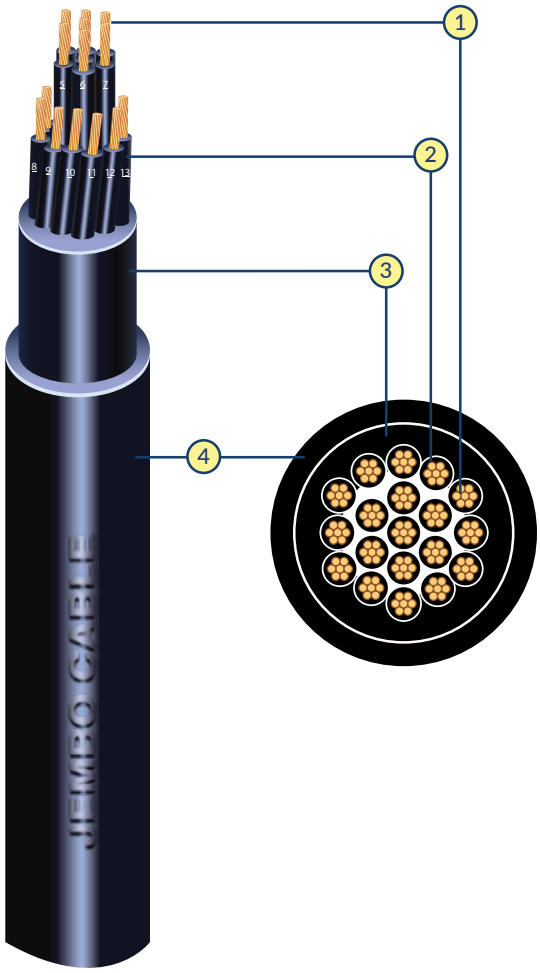
Control cable indoor and outdoor installation direct burial preferably used where considerable mechanical stress must be envisaged

Construction :

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

Identification of Cores : Black with white numbering

Other colors are available on request



Special Features on Request:

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

NYY (CU/PVC/PVC) or KVV

CONTROL CABLE

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	1.5	re/rm	1/7	0.8	1.8	15.4	331	1000	Drum
7	1.5	re/rm	1/7	0.8	1.8	15.4	341	1000	Drum
8	1.5	re/rm	1/7	0.8	1.8	16.5	378	1000	Drum
10	1.5	re/rm	1/7	0.8	1.8	18.6	462	1000	Drum
12	1.5	re/rm	1/7	0.8	1.8	19.1	504	1000	Drum
14	1.5	re/rm	1/7	0.8	1.8	19.9	560	1000	Drum
16	1.5	re/rm	1/7	0.8	1.8	20.8	624	1000	Drum
19	1.5	re/rm	1/7	0.8	1.8	21.8	699	1000	Drum
21	1.5	re/rm	1/7	0.8	1.8	22.9	758	1000	Drum
24	1.5	re/rm	1/7	0.8	1.8	25.0	865	1000	Drum
30	1.5	re/rm	1/7	0.8	1.8	26.3	1008	1000	Drum
40	1.5	re/rm	1/7	0.8	1.8	29.3	1273	1000	Drum
52	1.5	re/rm	1/7	0.8	2.0	33.5	1651	1000	Drum
61	1.5	re/rm	1/7	0.8	2.0	35.4	1882	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
7	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
8	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
10	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
14	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
16	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
21	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
52	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
61	1.5	12.1	14.478	50	0.112	7	6	0.17	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or KVV

CONTROL CABLE

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	2.5	re/rm	1/7	0.8	1.8	16.6	414	1000	Drum
7	2.5	re/rm	1/7	0.8	1.8	16.6	431	1000	Drum
8	2.5	re/rm	1/7	0.8	1.8	17.8	480	1000	Drum
10	2.5	re/rm	1/7	0.8	1.8	20.2	591	1000	Drum
12	2.5	re/rm	1/7	0.8	1.8	20.8	650	1000	Drum
14	2.5	re/rm	1/7	0.8	1.8	21.7	728	1000	Drum
16	2.5	re/rm	1/7	0.8	1.8	22.7	815	1000	Drum
19	2.5	re/rm	1/7	0.8	1.8	23.8	919	1000	Drum
21	2.5	re/rm	1/7	0.8	1.8	25.0	1001	1000	Drum
24	2.5	re/rm	1/7	0.8	1.8	27.4	1144	1000	Drum
30	2.5	re/rm	1/7	0.8	1.8	28.9	1345	1000	Drum
40	2.5	re/rm	1/7	0.8	1.9	32.8	1760	1000	Drum
52	2.5	re/rm	1/7	0.8	2.1	37.1	2241	1000	Drum
61	2.5	re/rm	1/7	0.8	2.1	39.2	2566	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
7	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
8	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
10	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
12	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
14	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
16	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
19	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
21	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
24	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
30	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
40	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
52	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
61	2.5	7.41	8.866	50	0.104	9	8	0.27	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or KVV

CONTROL CABLE

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	4	re/rm	1/7	1.0	1.8	19.3	589	1000	Drum
7	4	re/rm	1/7	1.0	1.8	19.3	617	1000	Drum
8	4	re/rm	1/7	1.0	1.8	20.8	690	1000	Drum
10	4	re/rm	1/7	1.0	1.8	23.8	856	1000	Drum
12	4	re/rm	1/7	1.0	1.8	24.5	950	1000	Drum
14	4	re/rm	1/7	1.0	1.8	25.7	1071	1000	Drum
16	4	re/rm	1/7	1.0	1.8	27.0	1205	1000	Drum
19	4	re/rm	1/7	1.0	1.8	28.3	1368	1000	Drum
21	4	re/rm	1/7	1.0	1.9	30.0	1508	1000	Drum
24	4	re/rm	1/7	1.0	2.0	33.6	1774	1000	Drum
30	4	re/rm	1/7	1.0	2.0	35.5	2095	1000	Drum
40	4	re/rm	1/7	1.0	2.2	40.0	2718	1000	Drum
52	4	re/rm	1/7	1.0	2.3	45.5	3486	500	Drum
61	4	re/rm	1/7	1.0	2.4	48.3	4024	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	4	4.61	5.516	50	0.103	26	22	0.44	3.5
7	4	4.61	5.516	50	0.103	26	22	0.44	3.5
8	4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4	4.61	5.516	50	0.103	20	17	0.44	3.5
16	4	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4	4.61	5.516	50	0.103	18	15	0.44	3.5
21	4	4.61	5.516	50	0.103	18	15	0.44	3.5
24	4	4.61	5.516	50	0.103	15	14	0.44	3.5
30	4	4.61	5.516	50	0.103	15	14	0.44	3.5
40	4	4.61	5.516	50	0.103	13	12	0.44	3.5
52	4	4.61	5.516	50	0.103	13	12	0.44	3.5
61	4	4.61	5.516	50	0.103	11	10	0.44	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYY (CU/PVC/PVC) or KVV

CONTROL CABLE

(Copper Conductor, PVC Insulated, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	6	re/rm	1/7	1.0	1.8	21.1	756	1000	Drum
7	6	re/rm	1/7	1.0	1.8	21.1	798	1000	Drum
8	6	re/rm	1/7	1.0	1.8	22.8	895	1000	Drum
10	6	re/rm	1/7	1.0	1.8	26.2	1115	1000	Drum
12	6	re/rm	1/7	1.0	1.8	27.0	1246	1000	Drum
14	6	re/rm	1/7	1.0	1.8	28.3	1411	1000	Drum
16	6	re/rm	1/7	1.0	1.9	30.0	1608	1000	Drum
19	6	re/rm	1/7	1.0	1.9	31.9	1864	1000	Drum
21	6	re/rm	1/7	1.0	2.0	33.8	2052	1000	Drum
24	6	re/rm	1/7	1.0	2.1	37.4	2369	1000	Drum
30	6	re/rm	1/7	1.0	2.2	39.7	2835	1000	Drum
40	6	re/rm	1/7	1.0	2.3	45.0	3706	500	Drum
52	6	re/rm	1/7	1.0	2.5	50.9	4729	300	Drum
61	6	re/rm	1/7	1.0	2.6	54.5	5518	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	6	3.08	3.685	40	0.098	34	28	0.65	3.5
7	6	3.08	3.685	40	0.098	34	28	0.65	3.5
8	6	3.08	3.685	40	0.098	34	28	0.65	3.5
10	6	3.08	3.685	40	0.098	28	24	0.65	3.5
12	6	3.08	3.685	40	0.098	28	24	0.65	3.5
14	6	3.08	3.685	40	0.098	25	22	0.65	3.5
16	6	3.08	3.685	40	0.098	25	22	0.65	3.5
19	6	3.08	3.685	40	0.098	22	19	0.65	3.5
21	6	3.08	3.685	40	0.098	22	19	0.65	3.5
24	6	3.08	3.685	40	0.098	20	17	0.65	3.5
30	6	3.08	3.685	40	0.098	20	17	0.65	3.5
40	6	3.08	3.685	40	0.098	17	15	0.65	3.5
52	6	3.08	3.685	40	0.098	17	15	0.65	3.5
61	6	3.08	3.685	40	0.098	14	13	0.65	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Specification:

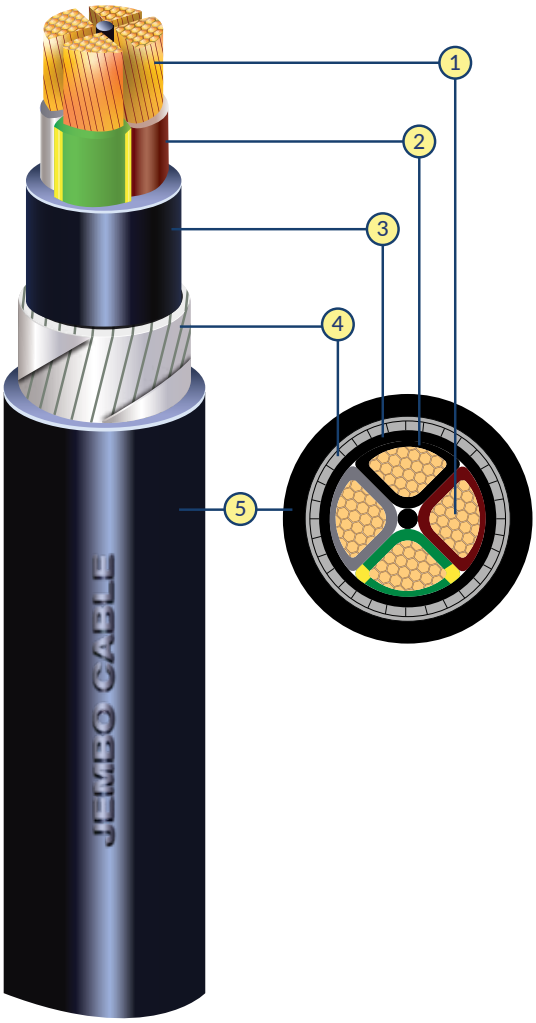
SNI IEC 60502-1 2009

IEC 60502-1

Other specification are available on request

Application:

Power cable for indoor and outdoor installation direct burial, preferably used where considerable mechanical stress must be envisaged



Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 2 x 16 ... 300 mm²
	3 x 10 ... 400 mm²
	4 x 10 ... 400 mm²
	5 x 6 ... 50 mm²

Construction :

1. Conductor	: Annealed Copper Wire
2. Insulation	: Extruded PVC
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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Other colors are available on request

Special Features on Request:

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

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
16	rm	7	1.0	1.8	22.0	1155	1000	Drum
25	rm	7	1.2	1.8	25.4	1521	1000	Drum
35	rm	7	1.2	1.8	27.6	1844	1000	Drum
50	rm	19	1.4	1.9	31.2	2322	1000	Drum
70	rm	19	1.4	2.0	35.4	3034	1000	Drum
95	rm	19	1.6	2.2	40.6	3987	500	Drum
120	rm	37	1.6	2.3	44.0	4724	500	Drum
150	rm	37	1.8	2.4	48.4	5662	500	Drum
185	rm	37	2.0	2.5	53.2	6883	300	Drum
240	rm	61	2.2	2.7	59.8	8642	300	Drum
300	rm	61	2.4	2.9	65.8	10477	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
50	0.387	0.463	20	0.080	222	176	5.19	3.5
70	0.268	0.321	20	0.078	272	224	7.49	3.5
95	0.193	0.232	20	0.077	328	271	10.41	3.5
120	0.153	0.184	20	0.075	375	314	13.13	3.5
150	0.124	0.150	20	0.075	419	361	16.20	3.5
185	0.0991	0.120	20	0.075	475	412	20.27	3.5
240	0.0754	0.092	20	0.074	525	484	26.64	3.5
300	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
10	re/rm	1/7	1.0	1.8	21.0	1066	1000	Drum
16	rm	7	1.0	1.8	23.1	1350	1000	Drum
25	rm	7	1.2	1.8	26.8	1833	1000	Drum
35	rm	7	1.2	1.8	29.2	2243	1000	Drum
50	sm	19	1.4	2.0	29.4	2394	1000	Drum
70	sm	19	1.4	2.1	32.3	3116	1000	Drum
95	sm	19	1.6	2.2	37.4	4197	1000	Drum
120	sm	37	1.6	2.4	40.4	5003	500	Drum
150	sm	37	1.8	2.5	44.0	5983	500	Drum
185	sm	37	2.0	2.6	48.5	7275	500	Drum
240	sm	37	2.2	2.9	54.2	9215	300	Drum
300	sm	37	2.4	3.0	59.7	11297	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.084	185	159	5.19	3.5
70	0.268	0.321	20	0.081	228	202	7.49	3.5
95	0.193	0.232	20	0.080	275	244	10.41	3.5
120	0.153	0.184	20	0.078	313	282	13.13	3.5
150	0.124	0.150	20	0.078	353	324	16.20	3.5
185	0.0991	0.120	20	0.078	399	371	20.27	3.5
240	0.0754	0.092	20	0.077	464	436	26.64	3.5
300	0.0601	0.074	20	0.077	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
10	re/rm	1/7	1.0	1.8	22.5	1246	1000	Drum
16	rm	7	1.0	1.8	24.9	1597	1000	Drum
25	rm	7	1.2	1.8	29.1	2222	1000	Drum
35	rm	7	1.2	1.9	31.9	2754	1000	Drum
50	sm	19	1.4	2.1	33.3	3077	1000	Drum
70	sm	19	1.4	2.2	38.0	4141	1000	Drum
95	sm	19	1.6	2.4	43.2	5423	500	Drum
120	sm	37	1.6	2.5	47.0	6526	500	Drum
150	sm	37	1.8	2.7	51.5	7862	300	Drum
185	sm	37	2.0	2.8	56.7	9584	300	Drum
240	sm	37	2.2	3.1	63.5	12162	300	Drum
300	sm	37	2.4	3.3	69.8	14865	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.082	185	159	5.19	3.5
70	0.268	0.321	20	0.079	228	202	7.49	3.5
95	0.193	0.232	20	0.078	275	244	10.41	3.5
120	0.153	0.184	20	0.076	313	282	13.13	3.5
150	0.124	0.150	20	0.076	353	324	16.20	3.5
185	0.0991	0.120	20	0.076	399	371	20.27	3.5
240	0.0754	0.092	20	0.075	464	436	26.64	3.5
300	0.0601	0.074	20	0.075	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	
6	re/rm	1/7	1.0	1.8	21.8	1097	1000	Drum
10	re/rm	1/7	1.0	1.8	24.2	1417	1000	Drum
16	rm	7	1.0	1.8	26.9	1857	1000	Drum
25	rm	7	1.2	1.9	31.7	2603	1000	Drum
35	rm	7	1.2	2.0	35.3	3269	1000	Drum
50	rm	19	1.4	2.2	40.7	4286	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5
50	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Specification:

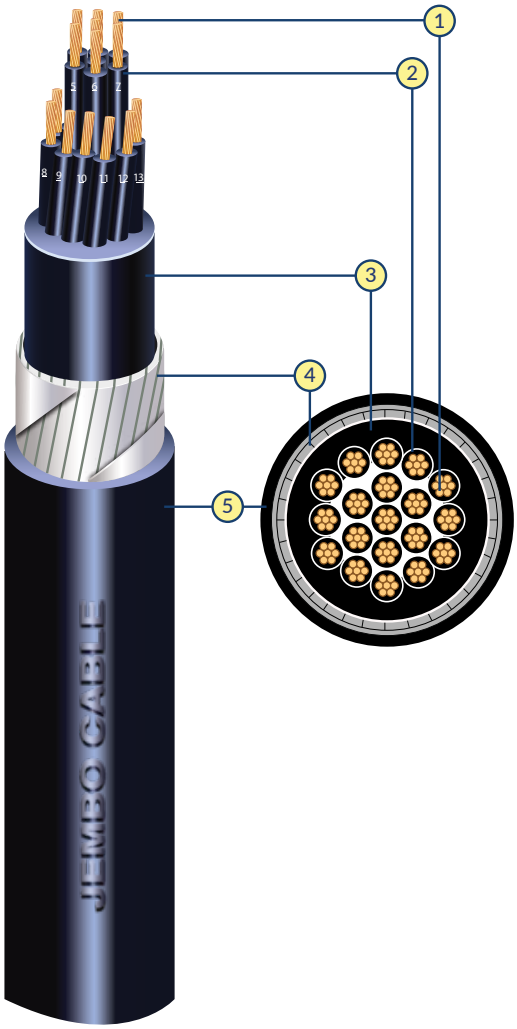
SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

Application:

Power cable for indoor and outdoor installation direct burial, preferably used where considerable mechanical stress must be envisaged



Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 10 ... 61 x 1.5 mm²
	10 ... 61 x 2.5 mm²
	6 ... 61 x 4 mm²
	6 ... 61 x 6 mm²

Construction :

1. Conductor	: Annealed Copper Wire
2. Insulation	: Extruded PVC
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 colors are available on request

Special Features on Request:

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

NYFGbY (CU/PVC/SFA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
10	1.5	rm	7	0.8	1.8	20.8	910	1000	Drum
12	1.5	rm	7	0.8	1.8	21.3	953	1000	Drum
14	1.5	rm	7	0.8	1.8	22.1	1039	1000	Drum
16	1.5	rm	7	0.8	1.8	23.0	1106	1000	Drum
19	1.5	rm	7	0.8	1.8	24.0	1210	1000	Drum
21	1.5	rm	7	0.8	1.8	25.1	1300	1000	Drum
24	1.5	rm	7	0.8	1.8	27.2	1467	1000	Drum
30	1.5	rm	7	0.8	1.8	28.5	1641	1000	Drum
40	1.5	rm	7	0.8	1.9	31.7	2010	1000	Drum
52	1.5	rm	7	0.8	2.0	35.7	2468	1000	Drum
61	1.5	rm	7	0.8	2.1	38.2	2837	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
10	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
14	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
16	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
21	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
52	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
61	1.5	12.1	14.478	50	0.112	7	6	0.17	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
10	2.5	rm	7	0.8	1.8	22.4	1070	1000	Drum
12	2.5	rm	7	0.8	1.8	23.0	1132	1000	Drum
14	2.5	rm	7	0.8	1.8	23.9	1239	1000	Drum
16	2.5	rm	7	0.8	1.8	24.9	1356	1000	Drum
19	2.5	rm	7	0.8	1.8	26.0	1491	1000	Drum
21	2.5	rm	7	0.8	1.8	27.2	1603	1000	Drum
24	2.5	rm	7	0.8	1.9	29.8	1821	1000	Drum
30	2.5	rm	7	0.8	1.9	31.3	2055	1000	Drum
40	2.5	rm	7	0.8	2.0	35.2	2565	1000	Drum
52	2.5	rm	7	0.8	2.2	39.9	3260	1000	Drum
61	2.5	rm	7	0.8	2.2	42.0	3624	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
10	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
12	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
14	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
16	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
19	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
21	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
24	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
30	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
40	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
52	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
61	2.5	7.41	8.866	50	0.104	9	8	0.27	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	4	rm	7	1.0	1.8	21.5	1040	1000	Drum
7	4	rm	7	1.0	1.8	21.5	1067	1000	Drum
8	4	rm	7	1.0	1.8	23.0	1172	1000	Drum
10	4	rm	7	1.0	1.8	26.0	1428	1000	Drum
12	4	rm	7	1.0	1.8	26.7	1550	1000	Drum
14	4	rm	7	1.0	1.8	27.9	1701	1000	Drum
16	4	rm	7	1.0	1.8	29.2	1867	1000	Drum
19	4	rm	7	1.0	1.9	30.7	2075	1000	Drum
21	4	rm	7	1.0	1.9	32.2	2233	1000	Drum
24	4	rm	7	1.0	2.0	35.8	2592	1000	Drum
30	4	rm	7	1.0	2.1	38.3	3051	1000	Drum
40	4	rm	7	1.0	2.3	42.8	3809	500	Drum
52	4	rm	7	1.0	2.4	48.3	4717	500	Drum
61	4	rm	7	1.0	2.5	51.1	5352	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	4	4.61	5.516	50	0.103	26	22	0.44	3.5
7	4	4.61	5.516	50	0.103	26	22	0.44	3.5
8	4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4	4.61	5.516	50	0.103	20	17	0.44	3.5
16	4	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4	4.61	5.516	50	0.103	18	15	0.44	3.5
21	4	4.61	5.516	50	0.103	18	15	0.44	3.5
24	4	4.61	5.516	50	0.103	15	14	0.44	3.5
30	4	4.61	5.516	50	0.103	15	14	0.44	3.5
40	4	4.61	5.516	50	0.103	13	12	0.44	3.5
52	4	4.61	5.516	50	0.103	13	12	0.44	3.5
61	4	4.61	5.516	50	0.103	11	10	0.44	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	6	rm	7	1.0	1.8	23.3	1265	1000	Drum
7	6	rm	7	1.0	1.8	23.3	1307	1000	Drum
8	6	rm	7	1.0	1.8	25.0	1437	1000	Drum
10	6	rm	7	1.0	1.8	28.4	1748	1000	Drum
12	6	rm	7	1.0	1.8	29.2	1908	1000	Drum
14	6	rm	7	1.0	1.9	30.7	2119	1000	Drum
16	6	rm	7	1.0	1.9	32.2	2333	1000	Drum
19	6	rm	7	1.0	2.0	34.3	2665	1000	Drum
21	6	rm	7	1.0	2.1	36.2	2888	1000	Drum
24	6	rm	7	1.0	2.2	40.2	3390	500	Drum
30	6	rm	7	1.0	2.3	42.5	3923	500	Drum
40	6	rm	7	1.0	2.4	47.8	4934	500	Drum
52	6	rm	7	1.0	2.6	53.7	6127	300	Drum
61	6	rm	7	1.0	2.7	57.3	6993	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	6	3.08	3.685	50	0.098	34	28	0.65	3.5
7	6	3.08	3.685	50	0.098	34	28	0.65	3.5
8	6	3.08	3.685	50	0.098	34	28	0.65	3.5
10	6	3.08	3.685	50	0.098	28	24	0.65	3.5
12	6	3.08	3.685	50	0.098	28	24	0.65	3.5
14	6	3.08	3.685	50	0.098	25	22	0.65	3.5
16	6	3.08	3.685	50	0.098	25	22	0.65	3.5
19	6	3.08	3.685	50	0.098	22	19	0.65	3.5
21	6	3.08	3.685	50	0.098	22	19	0.65	3.5
24	6	3.08	3.685	50	0.098	20	17	0.65	3.5
30	6	3.08	3.685	50	0.098	20	17	0.65	3.5
40	6	3.08	3.685	50	0.098	17	15	0.65	3.5
52	6	3.08	3.685	50	0.098	17	15	0.65	3.5
61	6	3.08	3.685	50	0.098	14	13	0.65	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Specification:

SPLN D3.010-3:2014
Other specification are available on request

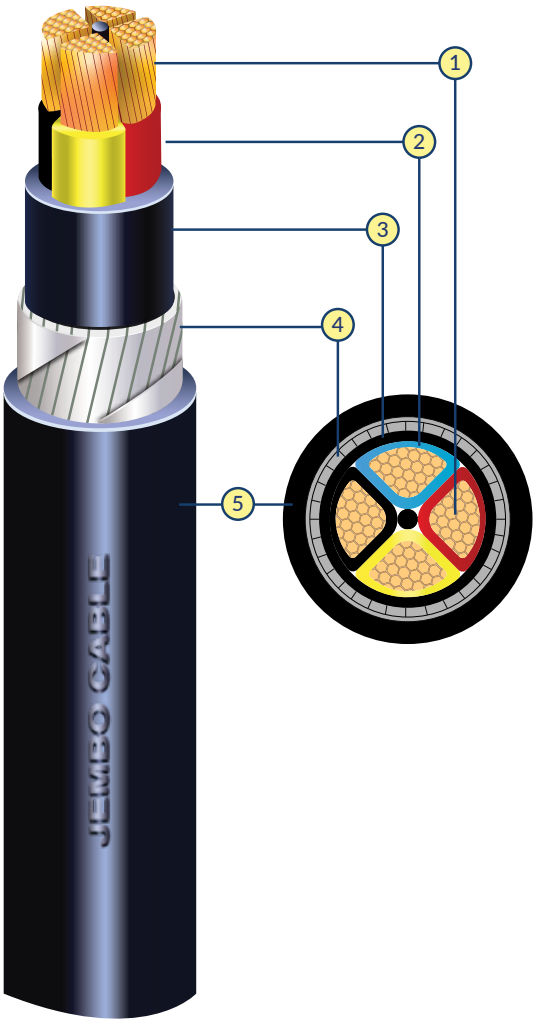
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 2 x 10 ... 300 mm²
	3 x 10 ... 400 mm²
	4 x 6 ... 400 mm²
	5 x 4 ... 50 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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	: Galvanized Flat Steel Wire & Tape
5. Outer Sheath	: Extruded PVC (Black Color)



Identification of Cores

Four-Cores	: Red, Yellow, Black, Blue

Special Features on Request:

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

NYFGbY (CU/PVC/SFA/PVC)

(Copper Conductor, PVC Insulated, Flat Steel Wire Armoured, and PVC Sheathed)

Nominal Voltage : 0.6/1 kV (1.2 kV)
Specification : SPLN D3.010-3:2014

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	
50	sm	19	1.4	2.0	33.5	3092	1000	Drum
70	sm	19	1.4	2.1	37.8	4123	1000	Drum
95	sm	19	1.6	2.3	43.4	5443	1000	Drum
120	sm	37	1.6	2.4	46.8	6504	500	Drum
150	sm	37	1.8	2.6	51.3	7838	300	Drum

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)	Insulation Resistance at 20°C		at 35°C	at 40°C		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
50	0.387	0.463	30	0.082	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

Note:
* Current Carrying Capacity refers to SPLN D3.010-3:2014
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

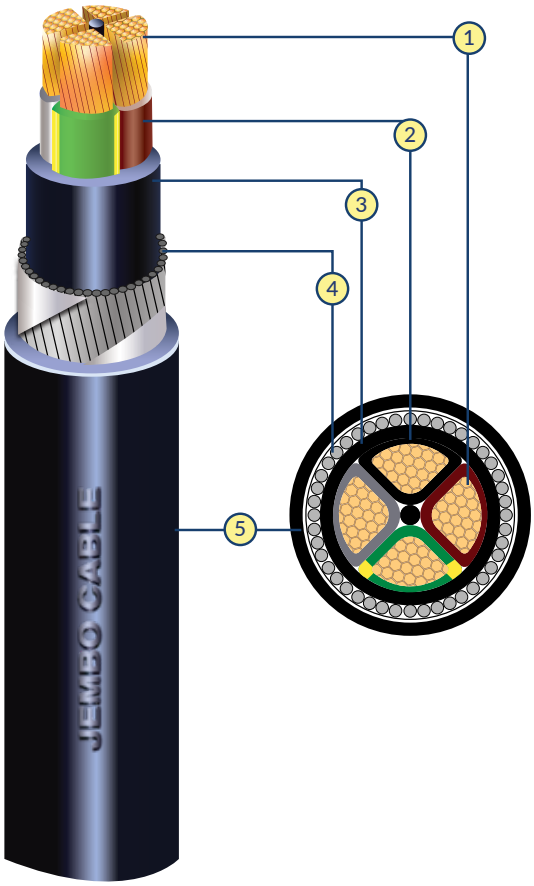
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 2 x 1.5 ... 300 mm²
	3 x 1.5 ... 300 mm²
	4 x 1.5 ... 300 mm²
	5 x 1.5 ... 50 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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	: 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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Other colors are available on request

Special Features on Request:

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

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	14.4	381	1000	Drum
2.5	re/rm	1/7	0.8	1.8	15.2	428	1000	Drum
4	re/rm	1/7	1.0	1.8	17.9	657	1000	Drum
6	re/rm	1/7	1.0	1.8	19.1	763	1000	Drum
10	re/rm	1/7	1.0	1.8	20.9	938	1000	Drum
16	rm	7	1.0	1.8	22.9	1156	1000	Drum
25	rm	7	1.2	1.8	27.0	1689	1000	Drum
35	rm	7	1.2	1.8	29.2	2025	1000	Drum
50	rm	19	1.4	2.0	33.0	2539	1000	Drum
70	rm	19	1.4	2.1	38.0	3508	1000	Drum
95	rm	19	1.6	2.2	42.6	4429	500	Drum
120	rm	37	1.6	2.3	46.0	5183	500	Drum
150	rm	37	1.8	2.5	51.6	6638	300	Drum
185	rm	37	2.0	2.6	56.4	7898	300	Drum
240	rm	61	2.2	2.8	63.0	9807	300	Drum
300	rm	61	2.4	3.0	69.0	11744	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4	4.61	5.516	50	0.103	54	37	0.44	3.5
6	3.08	3.685	40	0.098	68	48	0.65	3.5
10	1.83	2.190	30	0.092	92	66	1.10	3.5
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
50	0.387	0.463	20	0.080	222	176	5.19	3.5
70	0.268	0.321	20	0.078	272	224	7.49	3.5
95	0.193	0.232	20	0.077	328	271	10.41	3.5
120	0.153	0.184	20	0.075	375	314	13.13	3.5
150	0.124	0.150	20	0.075	419	361	16.20	3.5
185	0.0991	0.120	20	0.075	475	412	20.27	3.5
240	0.0754	0.092	20	0.074	525	484	26.64	3.5
300	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	14.9	416	1000	Drum
2.5	re/rm	1/7	0.8	1.8	15.8	473	1000	Drum
4	re/rm	1/7	1.0	1.8	18.6	733	1000	Drum
6	re/rm	1/7	1.0	1.8	19.9	859	1000	Drum
10	re/rm	1/7	1.0	1.8	21.9	1072	1000	Drum
16	rm	7	1.0	1.8	24.7	1478	1000	Drum
25	rm	7	1.2	1.8	28.4	1997	1000	Drum
35	rm	7	1.2	1.9	31.0	2436	1000	Drum
50	sm	19	1.4	2.0	31.8	2776	1000	Drum
70	sm	19	1.4	2.2	34.9	3541	1000	Drum
95	sm	19	1.6	2.3	39.6	4589	1000	Drum
120	sm	37	1.6	2.5	43.6	5791	500	Drum
150	sm	37	1.8	2.6	47.2	6848	500	Drum
185	sm	37	2.0	2.8	51.9	8240	300	Drum
240	sm	37	2.2	3.0	57.4	10285	300	Drum
300	sm	37	2.4	3.1	62.9	12468	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.084	185	159	5.19	3.5
70	0.268	0.321	20	0.081	228	202	7.49	3.5
95	0.193	0.232	20	0.080	275	244	10.41	3.5
120	0.153	0.184	20	0.078	313	282	13.13	3.5
150	0.124	0.150	20	0.078	353	324	16.20	3.5
185	0.0991	0.120	20	0.078	399	371	20.27	3.5
240	0.0754	0.092	20	0.077	464	436	26.64	3.5
300	0.0601	0.074	20	0.077	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	15.7	464	1000	Drum
2.5	re/rm	1/7	0.8	1.8	17.6	661	1000	Drum
4	re/rm	1/7	1.0	1.8	19.8	833	1000	Drum
6	re/rm	1/7	1.0	1.8	21.2	985	1000	Drum
10	re/rm	1/7	1.0	1.8	24.1	1384	1000	Drum
16	rm	7	1.0	1.8	26.5	1748	1000	Drum
25	rm	7	1.2	1.9	30.9	2398	1000	Drum
35	rm	7	1.2	2.0	33.7	2961	1000	Drum
50	sm	19	1.4	2.2	35.9	3527	1000	Drum
70	sm	19	1.4	2.3	40.2	4558	500	Drum
95	sm	19	1.6	2.5	46.4	6274	500	Drum
120	sm	37	1.6	2.6	50.2	7453	300	Drum
150	sm	37	1.8	2.8	54.7	8840	300	Drum
185	sm	37	2.0	2.9	59.9	10689	300	Drum
240	sm	37	2.2	3.2	66.7	13370	300	Drum
300	sm	37	2.4	3.4	74.3	16975	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.082	185	159	5.19	3.5
70	0.268	0.321	20	0.079	228	202	7.49	3.5
95	0.193	0.232	20	0.078	275	244	10.41	3.5
120	0.153	0.184	20	0.076	313	282	13.13	3.5
150	0.124	0.150	20	0.076	353	324	16.20	3.5
185	0.0991	0.120	20	0.076	399	371	20.27	3.5
240	0.0754	0.092	20	0.075	464	436	26.64	3.5
300	0.0601	0.074	20	0.075	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	16.6	515	1000	Drum
2.5	re/rm	1/7	0.8	1.8	18.6	731	1000	Drum
4	re/rm	1/7	1.0	1.8	21.1	938	1000	Drum
6	re/rm	1/7	1.0	1.8	22.7	1124	1000	Drum
10	re/rm	1/7	1.0	1.8	25.8	1577	1000	Drum
16	rm	7	1.0	1.8	28.5	2021	1000	Drum
25	rm	7	1.2	2.0	33.5	2811	1000	Drum
35	rm	7	1.2	2.1	37.9	3745	1000	Drum
50	rm	19	1.4	2.3	42.9	4748	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4	4.61	5.516	50	0.103	31	26	0.44	3.5
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5
50	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

CONTROL CABLE

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

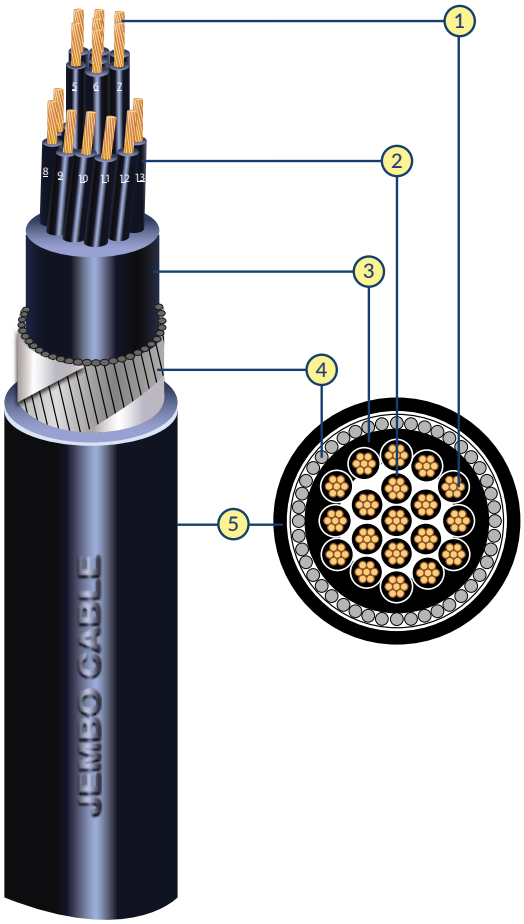
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 6 ... 61x1.5 mm²
	6 ... 61x2.5 mm²
	6 ... 61x4 mm²
	6 ... 61x6 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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	: Galvanized Steel Wire & Tape
5. Outer Sheath	: Extruded PVC (Black Color)



Identification of Cores : Black with white numbering

Other colors are available on request

Special Features on Request:

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

NYRGbY (CU/PVC/SWA/PVC) CONTROL CABLE

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	1.5	rm	7	0.8	1.8	18.5	692	1000	Drum
7	1.5	rm	7	0.8	1.8	18.5	702	1000	Drum
8	1.5	rm	7	0.8	1.8	19.6	774	1000	Drum
10	1.5	rm	7	0.8	1.8	21.7	906	1000	Drum
12	1.5	rm	7	0.8	1.8	22.2	970	1000	Drum
14	1.5	rm	7	0.8	1.8	23.7	1176	1000	Drum
16	1.5	rm	7	0.8	1.8	24.6	1260	1000	Drum
19	1.5	rm	7	0.8	1.8	25.6	1371	1000	Drum
21	1.5	rm	7	0.8	1.8	26.7	1468	1000	Drum
24	1.5	rm	7	0.8	1.8	28.8	1632	1000	Drum
30	1.5	rm	7	0.8	1.9	30.3	1826	1000	Drum
40	1.5	rm	7	0.8	2.0	33.5	2201	1000	Drum
52	1.5	rm	7	0.8	2.1	38.3	2943	1000	Drum
61	1.5	rm	7	0.8	2.2	40.4	3278	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
7	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
8	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
10	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
14	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
16	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
21	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
52	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
61	1.5	12.1	14.478	50	0.112	7	6	0.17	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC) CONTROL CABLE

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	2.5	rm	7	0.8	1.8	19.7	810	1000	Drum
7	2.5	rm	7	0.8	1.8	19.7	827	1000	Drum
8	2.5	rm	7	0.8	1.8	20.9	910	1000	Drum
10	2.5	rm	7	0.8	1.8	24.0	1208	1000	Drum
12	2.5	rm	7	0.8	1.8	24.6	1286	1000	Drum
14	2.5	rm	7	0.8	1.8	25.5	1400	1000	Drum
16	2.5	rm	7	0.8	1.8	26.5	1507	1000	Drum
19	2.5	rm	7	0.8	1.8	27.6	1648	1000	Drum
21	2.5	rm	7	0.8	1.8	28.8	1767	1000	Drum
24	2.5	rm	7	0.8	1.9	31.4	1999	1000	Drum
30	2.5	rm	7	0.8	2.0	33.1	2272	1000	Drum
40	2.5	rm	7	0.8	2.1	37.8	3040	1000	Drum
52	2.5	rm	7	0.8	2.2	41.9	3678	500	Drum
61	2.5	rm	7	0.8	2.3	44.2	4109	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
7	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
8	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
10	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
12	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
14	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
16	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
19	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
21	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
24	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
30	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
40	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
52	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
61	2.5	7.41	8.866	50	0.104	9	8	0.27	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC) CONTROL CABLE

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	4	rm	7	1.0	1.8	22.4	1056	1000	Drum
7	4	rm	7	1.0	1.8	22.4	1084	1000	Drum
8	4	rm	7	1.0	1.8	24.6	1326	1000	Drum
10	4	rm	7	1.0	1.8	27.6	1585	1000	Drum
12	4	rm	7	1.0	1.8	28.3	1698	1000	Drum
14	4	rm	7	1.0	1.9	29.7	1870	1000	Drum
16	4	rm	7	1.0	1.9	31.0	2059	1000	Drum
19	4	rm	7	1.0	1.9	32.3	2261	1000	Drum
21	4	rm	7	1.0	2.0	34.0	2441	1000	Drum
24	4	rm	7	1.0	2.1	38.4	3067	1000	Drum
30	4	rm	7	1.0	2.2	40.5	3492	500	Drum
40	4	rm	7	1.0	2.3	44.8	4246	500	Drum
52	4	rm	7	1.0	2.5	51.5	5654	300	Drum
61	4	rm	7	1.0	2.6	54.3	6327	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	4	4.61	5.516	50	0.103	26	22	0.44	3.5
7	4	4.61	5.516	50	0.103	26	22	0.44	3.5
8	4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4	4.61	5.516	50	0.103	20	17	0.44	3.5
16	4	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4	4.61	5.516	50	0.103	18	15	0.44	3.5
21	4	4.61	5.516	50	0.103	18	15	0.44	3.5
24	4	4.61	5.516	50	0.103	15	14	0.44	3.5
30	4	4.61	5.516	50	0.103	15	14	0.44	3.5
40	4	4.61	5.516	50	0.103	13	12	0.44	3.5
52	4	4.61	5.516	50	0.103	13	12	0.44	3.5
61	4	4.61	5.516	50	0.103	11	10	0.44	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC) CONTROL CABLE

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	6	rm	7	1.0	1.8	24.9	1410	1000	Drum
7	6	rm	7	1.0	1.8	24.9	1451	1000	Drum
8	6	rm	7	1.0	1.8	26.6	1587	1000	Drum
10	6	rm	7	1.0	1.9	30.2	1933	1000	Drum
12	6	rm	7	1.0	1.9	31.0	2100	1000	Drum
14	6	rm	7	1.0	1.9	32.3	2304	1000	Drum
16	6	rm	7	1.0	2.0	34.0	2541	1000	Drum
19	6	rm	7	1.0	2.1	36.9	3114	1000	Drum
21	6	rm	7	1.0	2.1	38.6	3346	1000	Drum
24	6	rm	7	1.0	2.3	42.4	3827	500	Drum
30	6	rm	7	1.0	2.3	44.5	4361	500	Drum
40	6	rm	7	1.0	2.5	51.0	5872	300	Drum
52	6	rm	7	1.0	2.7	56.9	7167	300	Drum
61	6	rm	7	1.0	2.8	60.5	8135	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	6	3.08	3.685	50	0.098	34	28	0.65	3.5
7	6	3.08	3.685	50	0.098	34	28	0.65	3.5
8	6	3.08	3.685	50	0.098	34	28	0.65	3.5
10	6	3.08	3.685	50	0.098	28	24	0.65	3.5
12	6	3.08	3.685	50	0.098	28	24	0.65	3.5
14	6	3.08	3.685	50	0.098	25	22	0.65	3.5
16	6	3.08	3.685	50	0.098	25	22	0.65	3.5
19	6	3.08	3.685	50	0.098	22	19	0.65	3.5
21	6	3.08	3.685	50	0.098	22	19	0.65	3.5
24	6	3.08	3.685	50	0.098	20	17	0.65	3.5
30	6	3.08	3.685	50	0.098	20	17	0.65	3.5
40	6	3.08	3.685	50	0.098	17	15	0.65	3.5
52	6	3.08	3.685	50	0.098	17	15	0.65	3.5
61	6	3.08	3.685	50	0.098	14	13	0.65	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Specification:

SPLN D3.010-3:2014

Other specification are available on request

Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 4 x 50 ... 150 mm²

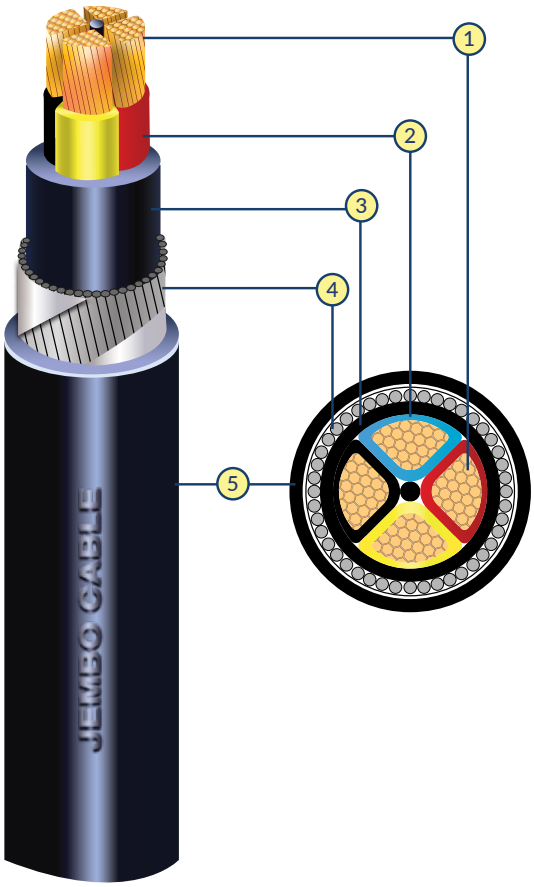
Application:

Power cable for indoor and outdoor installation direct burial, 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	: Galvanized Steel Wire & Tape
5. Outer Sheath	: Extruded PVC (Black Color)

CONSTRUCTION



Identification of Cores

Four-Cores : Red, Yellow, Black, Blue

Special Features on Request:

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

NYRGbY (CU/PVC/SWA/PVC)

(Copper Conductor, PVC Insulated, Steel Wire & Tape Armour, and PVC Sheathed)

Nominal Voltage : 0.6/1 kV (1.2 kV)
Specification : SPLN D3.010-3:2014

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	
50	sm	19	1.4	2.0	35.9	3524	1000	Drum
70	sm	19	1.4	2.1	39.8	4520	1000	Drum
95	sm	19	1.6	2.3	46.4	6270	1000	Drum
120	sm	37	1.6	2.4	49.8	7406	500	Drum
150	sm	37	1.8	2.6	54.3	8789	300	Drum

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)	Insulation Resistance at 20°C		at 35°C	at 40°C		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
50	0.387	0.463	30	0.082	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

Note:
* Current Carrying Capacity refers to SPLN D3.010-3:2014
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYR(Al)Y (CU/PVC/AWA/PVC) or VV_{72}

(Copper Conductor, PVC Insulated, Aluminium Wire Armoured, and PVC Sheathed)

Specification:

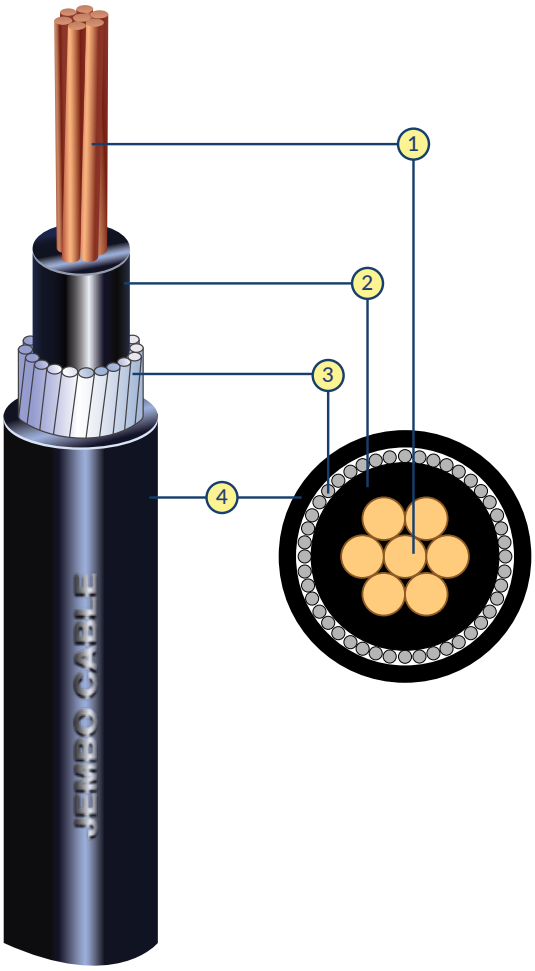
SNI IEC 60502-1

IEC 60502-1
Other specification are available on request

Rated Voltage : 0.6/1 kV
Size Range : 6 ... 630 mm²

Application:

Power cable for indoor and outdoor installation direct burial, preferably used where considerable mechanical stress must be envisaged



Construction :

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

Identification of Cores : Black

Special Features on Request:

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

NYR(AI)Y (CU/PVC/AWA/PVC) or VV_{72}

(Copper Conductor, PVC Insulated, Aluminium Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

1 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
6	re/rm	1/7	1.0	1.4	11.9	212	1000	Coil
10	re/rm	1/7	1.0	1.4	12.8	266	1000	Coil
16	rm	7	1.0	1.4	13.8	340	1000	Coil
25	rm	7	1.2	1.4	15.5	465	1000	Drum
35	rm	7	1.2	1.4	17.5	621	1000	Drum
50	rm	19	1.4	1.4	19.2	775	1000	Drum
70	rm	19	1.4	1.5	21.2	1012	1000	Drum
95	rm	19	1.6	1.6	24.3	1374	1000	Drum
120	rm	37	1.6	1.6	25.9	1633	1000	Drum
150	rm	37	1.8	1.7	28.0	1959	1000	Drum
185	rm	37	2.0	1.7	30.3	2367	1000	Drum
240	rm	61	2.2	1.8	33.4	3005	1000	Drum
300	rm	61	2.4	1.9	37.6	3786	1000	Drum
400	rm	61	2.6	2.1	41.4	4737	500	Drum
500	rm	61	2.8	2.2	45.3	5894	500	Drum
630	rm	127	2.8	2.3	50.8	7482	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)		Current Carrying Capacity at 30°C		Short Circuit Current at 1 Sec.	AC Voltage Test
				Flat Formation	Trefoil Formation				
Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C			In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ohm/km	Ampere		kA	kV/5 min.
6	3.08	3.685	40	0.120	0.149	90	58	0.65	3.5
10	1.83	2.190	30	0.108	0.137	122	79	1.10	3.5
16	1.15	1.376	30	0.098	0.128	160	105	1.75	3.5
25	0.727	0.870	30	0.091	0.121	206	140	2.76	3.5
35	0.524	0.627	20	0.088	0.118	249	174	3.83	3.5
50	0.387	0.463	20	0.081	0.111	296	212	5.19	3.5
70	0.268	0.321	20	0.076	0.105	365	269	7.49	3.5
95	0.193	0.232	20	0.074	0.104	438	331	10.41	3.5
120	0.153	0.184	20	0.070	0.099	499	386	13.13	3.5
150	0.124	0.150	20	0.068	0.098	561	442	16.20	3.5
185	0.0991	0.120	20	0.066	0.096	637	511	20.27	3.5
240	0.0754	0.092	20	0.063	0.093	743	612	26.64	3.5
300	0.0601	0.074	20	0.063	0.093	843	707	33.42	3.5
400	0.0470	0.060	20	0.062	0.091	986	859	42.74	3.5
500	0.0366	0.048	20	0.059	0.089	1125	1000	54.88	3.5
630	0.0283	0.039	20	0.059	0.088	1306	1183	70.97	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or VV_{32}

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

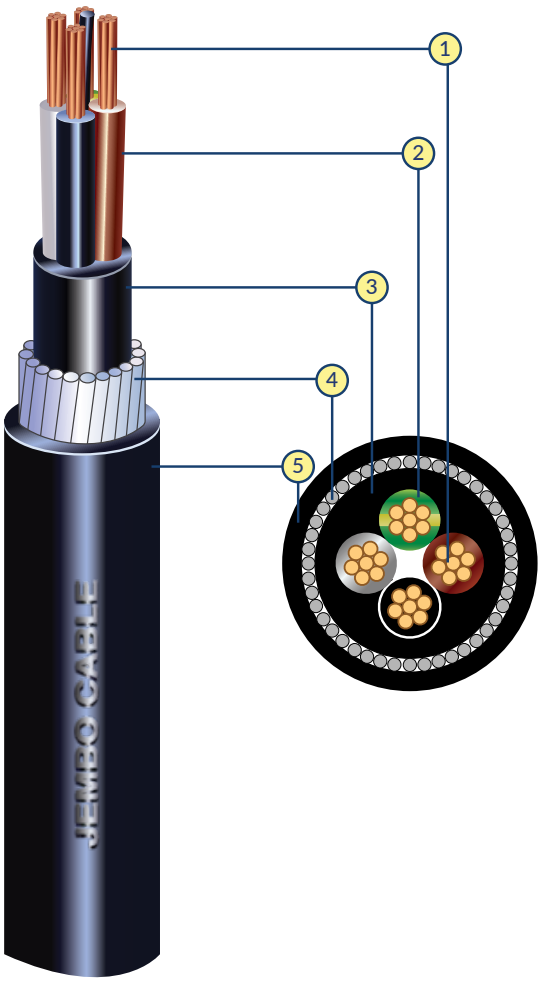
Rated Voltage	: 0.6/1 kV
Size Range	: 2 x 1.5 ... 300 mm²
	3 x 1.5 ... 300 mm²
	4 x 1.5 ... 300 mm²
	5 x 1.5 ... 50 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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	: 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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Other colors are available on request

Special Features on Request:

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

NYRY (CU/PVC/SWA/PVC) or VV_{32}

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	14.0	342	1000	Drum
2.5	re/rm	1/7	0.8	1.8	14.8	387	1000	Drum
4	re/rm	1/7	1.0	1.8	17.5	607	1000	Drum
6	re/rm	1/7	1.0	1.8	18.7	708	1000	Drum
10	re/rm	1/7	1.0	1.8	20.5	876	1000	Drum
16	rm	7	1.0	1.8	22.5	1087	1000	Drum
25	rm	7	1.2	1.8	26.6	1606	1000	Drum
35	rm	7	1.2	1.8	28.8	1935	1000	Drum
50	rm	19	1.4	1.9	32.4	2422	1000	Drum
70	rm	19	1.4	2.1	37.6	3390	1000	Drum
95	rm	19	1.6	2.2	42.2	4295	500	Drum
120	rm	37	1.6	2.3	45.6	5038	500	Drum
150	rm	37	1.8	2.5	51.2	6475	300	Drum
185	rm	37	2.0	2.6	56.0	7719	300	Drum
240	rm	61	2.2	2.8	62.6	9606	300	Drum
300	rm	61	2.4	3.0	68.6	11524	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4	4.61	5.516	50	0.103	54	37	0.44	3.5
6	3.08	3.685	40	0.098	68	48	0.65	3.5
10	1.83	2.190	30	0.092	92	66	1.10	3.5
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
50	0.387	0.463	20	0.080	222	176	5.19	3.5
70	0.268	0.321	20	0.078	272	224	7.49	3.5
95	0.193	0.232	20	0.077	328	271	10.41	3.5
120	0.153	0.184	20	0.075	375	314	13.13	3.5
150	0.124	0.150	20	0.075	419	361	16.20	3.5
185	0.0991	0.120	20	0.075	475	412	20.27	3.5
240	0.0754	0.092	20	0.074	525	484	26.64	3.5
300	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or VV_{32}

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	14.5	375	1000	Drum
2.5	re/rm	1/7	0.8	1.8	15.4	430	1000	Drum
4	re/rm	1/7	1.0	1.8	18.2	680	1000	Drum
6	re/rm	1/7	1.0	1.8	19.5	801	1000	Drum
10	re/rm	1/7	1.0	1.8	21.5	1008	1000	Drum
16	rm	7	1.0	1.8	24.3	1404	1000	Drum
25	rm	7	1.2	1.8	28.0	1910	1000	Drum
35	rm	7	1.2	1.9	30.6	2340	1000	Drum
50	sm	19	1.4	2.0	31.4	2679	1000	Drum
70	sm	19	1.4	2.1	34.3	3417	1000	Drum
95	sm	19	1.6	2.3	39.2	4466	1000	Drum
120	sm	37	1.6	2.4	43.0	5635	500	Drum
150	sm	37	1.8	2.6	46.8	6701	500	Drum
185	sm	37	2.0	2.7	51.3	8053	300	Drum
240	sm	37	2.2	2.9	56.8	10077	300	Drum
300	sm	37	2.4	3.1	62.5	12268	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.084	185	159	5.19	3.5
70	0.268	0.321	20	0.081	228	202	7.49	3.5
95	0.193	0.232	20	0.080	275	244	10.41	3.5
120	0.153	0.184	20	0.078	313	282	13.13	3.5
150	0.124	0.150	20	0.078	353	324	16.20	3.5
185	0.0991	0.120	20	0.078	399	371	20.27	3.5
240	0.0754	0.092	20	0.077	464	436	26.64	3.5
300	0.0601	0.074	20	0.077	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or VV_{32}

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	30.5	421	1000	Drum
2.5	re/rm	1/7	0.8	1.8	35.3	611	1000	Drum
4	re/rm	1/7	1.0	1.8	19.4	776	1000	Drum
6	re/rm	1/7	1.0	1.8	20.8	923	1000	Drum
10	re/rm	1/7	1.0	1.8	23.7	1312	1000	Drum
16	rm	7	1.0	1.8	26.1	1668	1000	Drum
25	rm	7	1.2	1.9	30.5	2303	1000	Drum
35	rm	7	1.2	2.0	33.3	2857	1000	Drum
50	sm	19	1.4	2.1	35.3	3400	1000	Drum
70	sm	19	1.4	2.3	39.8	4433	1000	Drum
95	sm	19	1.6	2.5	46.0	6128	500	Drum
120	sm	37	1.6	2.6	49.8	7295	500	Drum
150	sm	37	1.8	2.7	54.1	8642	300	Drum
185	sm	37	2.0	2.9	59.5	10499	300	Drum
240	sm	37	2.2	3.1	66.1	13127	300	Drum
300	sm	37	2.4	3.4	73.9	16738	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.082	185	159	5.19	3.5
70	0.268	0.321	20	0.079	228	202	7.49	3.5
95	0.193	0.232	20	0.078	275	244	10.41	3.5
120	0.153	0.184	20	0.076	313	282	13.13	3.5
150	0.124	0.150	20	0.076	353	324	16.20	3.5
185	0.0991	0.120	20	0.076	399	371	20.27	3.5
240	0.0754	0.092	20	0.075	464	436	26.64	3.5
300	0.0601	0.074	20	0.075	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or VV_{32}

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	re/rm	1/7	0.8	1.8	16.2	468	1000	Drum
2.5	re/rm	1/7	0.8	1.8	18.2	678	1000	Drum
4	re/rm	1/7	1.0	1.8	20.7	876	1000	Drum
6	re/rm	1/7	1.0	1.8	22.3	1056	1000	Drum
10	re/rm	1/7	1.0	1.8	25.4	1499	1000	Drum
16	rm	7	1.0	1.8	28.1	1933	1000	Drum
25	rm	7	1.2	1.9	32.9	2692	1000	Drum
35	rm	7	1.2	2.1	37.5	3627	1000	Drum
50	rm	19	1.4	2.2	42.3	4594	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4	4.61	5.516	50	0.103	31	26	0.44	3.5
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5
50	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or KVV_{32} CONTROL CABLE

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

Rated Voltage : 0.6/1 kV (1.2 kV)

Size Range : 6 ... 61 x 1.5 mm²

6 ... 61 x 2.5 mm²

6 ... 61 x 4 mm²

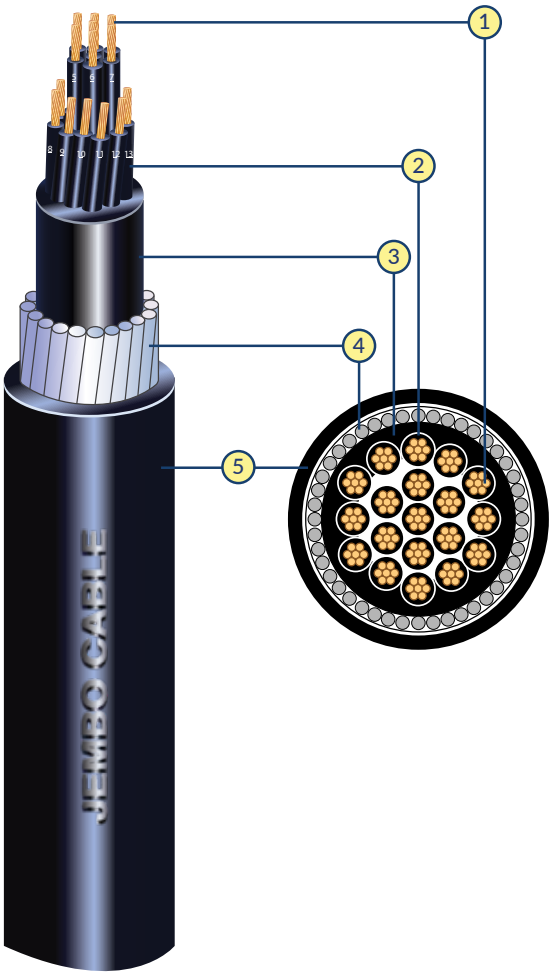
6 ... 61 x 6 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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 : Galvanized Steel Wire
5. Outer Sheath : Extruded PVC (Black Color)



Identification of Cores : Black with white numbering

Other colors are available on request

Special Features on Request:

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

NYRY (CU/PVC/SWA/PVC) or KVV_{32} CONTROL CABLE

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	1.5	rm	7	0.8	1.8	18.1	639	1000	Drum
7	1.5	rm	7	0.8	1.8	18.1	650	1000	Drum
8	1.5	rm	7	0.8	1.8	19.2	717	1000	Drum
10	1.5	rm	7	0.8	1.8	21.3	842	1000	Drum
12	1.5	rm	7	0.8	1.8	21.8	904	1000	Drum
14	1.5	rm	7	0.8	1.8	23.3	1106	1000	Drum
16	1.5	rm	7	0.8	1.8	24.2	1186	1000	Drum
19	1.5	rm	7	0.8	1.8	25.2	1294	1000	Drum
21	1.5	rm	7	0.8	1.8	26.3	1387	1000	Drum
24	1.5	rm	7	0.8	1.8	28.4	1543	1000	Drum
30	1.5	rm	7	0.8	1.9	29.9	1773	1000	Drum
40	1.5	rm	7	0.8	1.9	32.2	2082	1000	Drum
52	1.5	rm	7	0.8	2.1	37.9	2824	1000	Drum
61	1.5	rm	7	0.8	2.2	40.0	3152	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
7	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
8	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
10	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
14	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
16	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
21	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
52	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
61	1.5	12.1	14.478	50	0.112	7	6	0.17	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or KVV_{32} CONTROL CABLE

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	2.5	rm	7	0.8	1.8	19.3	753	1000	Drum
7	2.5	rm	7	0.8	1.8	19.3	770	1000	Drum
8	2.5	rm	7	0.8	1.8	20.5	849	1000	Drum
10	2.5	rm	7	0.8	1.8	23.6	1136	1000	Drum
12	2.5	rm	7	0.8	1.8	24.2	1212	1000	Drum
14	2.5	rm	7	0.8	1.8	25.1	1323	1000	Drum
16	2.5	rm	7	0.8	1.8	26.1	1426	1000	Drum
19	2.5	rm	7	0.8	1.8	27.2	1564	1000	Drum
21	2.5	rm	7	0.8	1.8	28.4	1678	1000	Drum
24	2.5	rm	7	0.8	1.9	31.0	1903	1000	Drum
30	2.5	rm	7	0.8	1.9	32.5	2155	1000	Drum
40	2.5	rm	7	0.8	2.1	37.4	2922	1000	Drum
52	2.5	rm	7	0.8	2.2	41.5	3547	500	Drum
61	2.5	rm	7	0.8	2.3	43.8	3970	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
7	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
8	2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
10	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
12	2.5	7.41	8.866	50	0.104	17	14	0.27	3.5
14	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
16	2.5	7.41	8.866	50	0.104	15	13	0.27	3.5
19	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
21	2.5	7.41	8.866	50	0.104	14	11	0.27	3.5
24	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
30	2.5	7.41	8.866	50	0.104	12	10	0.27	3.5
40	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
52	2.5	7.41	8.866	50	0.104	10	9	0.27	3.5
61	2.5	7.41	8.866	50	0.104	9	8	0.27	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or KVV_{32} CONTROL CABLE

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	4	rm	7	1.0	1.8	22.0	990	1000	Drum
7	4	rm	7	1.0	1.8	22.0	1017	1000	Drum
8	4	rm	7	1.0	1.8	24.2	1252	1000	Drum
10	4	rm	7	1.0	1.8	27.2	1501	1000	Drum
12	4	rm	7	1.0	1.8	27.9	1611	1000	Drum
14	4	rm	7	1.0	1.8	29.1	1765	1000	Drum
16	4	rm	7	1.0	1.9	30.6	1964	1000	Drum
19	4	rm	7	1.0	1.9	31.9	2161	1000	Drum
21	4	rm	7	1.0	2.0	33.6	2336	1000	Drum
24	4	rm	7	1.0	2.1	38.0	2947	1000	Drum
30	4	rm	7	1.0	2.2	40.1	3365	500	Drum
40	4	rm	7	1.0	2.3	44.4	4105	500	Drum
52	4	rm	7	1.0	2.5	51.1	5491	300	Drum
61	4	rm	7	1.0	2.6	53.9	6155	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	4	4.61	5.516	50	0.103	26	22	0.44	3.5
7	4	4.61	5.516	50	0.103	26	22	0.44	3.5
8	4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4	4.61	5.516	50	0.103	20	17	0.44	3.5
16	4	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4	4.61	5.516	50	0.103	18	15	0.44	3.5
21	4	4.61	5.516	50	0.103	18	15	0.44	3.5
24	4	4.61	5.516	50	0.103	15	14	0.44	3.5
30	4	4.61	5.516	50	0.103	15	14	0.44	3.5
40	4	4.61	5.516	50	0.103	13	12	0.44	3.5
52	4	4.61	5.516	50	0.103	13	12	0.44	3.5
61	4	4.61	5.516	50	0.103	11	10	0.44	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYRY (CU/PVC/SWA/PVC) or KVV_{32} CONTROL CABLE

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	6	rm	7	1.0	1.8	24.5	1335	1000	Drum
7	6	rm	7	1.0	1.8	24.5	1376	1000	Drum
8	6	rm	7	1.0	1.8	26.2	1507	1000	Drum
10	6	rm	7	1.0	1.9	29.8	1840	1000	Drum
12	6	rm	7	1.0	1.9	30.6	2005	1000	Drum
14	6	rm	7	1.0	1.9	31.9	2204	1000	Drum
16	6	rm	7	1.0	2.0	33.6	2436	1000	Drum
19	6	rm	7	1.0	2.1	36.5	2999	1000	Drum
21	6	rm	7	1.0	2.1	38.2	3225	1000	Drum
24	6	rm	7	1.0	2.2	41.8	3675	500	Drum
30	6	rm	7	1.0	2.3	44.1	4221	500	Drum
40	6	rm	7	1.0	2.5	50.6	5711	300	Drum
52	6	rm	7	1.0	2.7	56.5	6986	300	Drum
61	6	rm	7	1.0	2.8	60.1	7943	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	6	3.08	3.685	40	0.098	34	28	0.65	3.5
7	6	3.08	3.685	40	0.098	34	28	0.65	3.5
8	6	3.08	3.685	40	0.098	34	28	0.65	3.5
10	6	3.08	3.685	40	0.098	28	24	0.65	3.5
12	6	3.08	3.685	40	0.098	28	24	0.65	3.5
14	6	3.08	3.685	40	0.098	25	22	0.65	3.5
16	6	3.08	3.685	40	0.098	25	22	0.65	3.5
19	6	3.08	3.685	40	0.098	22	19	0.65	3.5
21	6	3.08	3.685	40	0.098	22	19	0.65	3.5
24	6	3.08	3.685	40	0.098	20	17	0.65	3.5
30	6	3.08	3.685	40	0.098	20	17	0.65	3.5
40	6	3.08	3.685	40	0.098	17	15	0.65	3.5
52	6	3.08	3.685	40	0.098	17	15	0.65	3.5
61	6	3.08	3.685	40	0.098	14	13	0.65	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYBY (CU/PVC/DSTA/PVC) or VV_{22}

(Copper Conductor, PVC Insulated, Double Steel Tape Armoured, and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

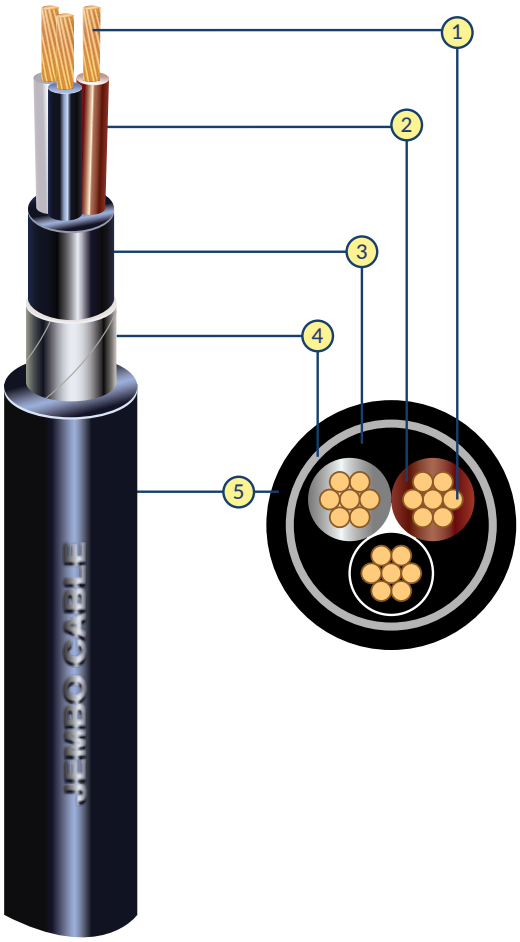
Rated Voltage	: 0.6/1 kV
Size Range	: 2 x 1.5 ... 300 mm²
	3 x 1.5 ... 300 mm²
	4 x 1.5 ... 300 mm²
	5 x 1.5 ... 50 mm²

Application:

Power cable for indoor and outdoor installation direct burial, 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 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	: System I Green with yellow stripe (G/Y), Blue, Brown, Black, Grey System O Blue, Brown, Black, Grey, Black

Other colors are available on request

Special Features on Request:

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

NYBY (CU/PVC/DSTA/PVC) or VV_{22}

(Copper Conductor, PVC Insulated, Double Steel Tape Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	rm	7	0.8	1.8	13.0	258	1000	Drum
2.5	rm	7	0.8	1.8	13.8	300	1000	Drum
4	rm	7	1.0	1.8	15.6	391	1000	Drum
6	rm	7	1.0	1.8	16.8	470	1000	Drum
10	rm	7	1.0	1.8	18.6	610	1000	Drum
16	rm	7	1.0	1.8	20.6	793	1000	Drum
25	rm	7	1.2	1.8	24.0	1117	1000	Drum
35	rm	7	1.2	1.8	26.2	1394	1000	Drum
50	rm	19	1.4	1.9	29.8	1802	1000	Drum
70	rm	19	1.4	2.0	34.0	2420	1000	Drum
95	rm	19	1.6	2.1	39.8	3558	1000	Drum
120	rm	37	1.6	2.2	43.2	4248	500	Drum
150	rm	37	1.8	2.4	47.8	5171	500	Drum
185	rm	37	2.0	2.5	52.6	6285	300	Drum
240	rm	61	2.2	2.7	59.2	8026	300	Drum
300	rm	61	2.4	2.9	65.2	9787	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4	4.61	5.516	50	0.103	54	37	0.44	3.5
6	3.08	3.685	40	0.098	68	48	0.65	3.5
10	1.83	2.190	30	0.092	92	66	1.10	3.5
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
50	0.387	0.463	20	0.080	222	176	5.19	3.5
70	0.268	0.321	20	0.078	272	224	7.49	3.5
95	0.193	0.232	20	0.077	328	271	10.41	3.5
120	0.153	0.184	20	0.075	375	314	13.13	3.5
150	0.124	0.150	20	0.075	419	361	16.20	3.5
185	0.0991	0.120	20	0.075	475	412	20.27	3.5
240	0.0754	0.092	20	0.074	525	484	26.64	3.5
300	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYBY (CU/PVC/DSTA/PVC) or VV_{22}

(Copper Conductor, PVC Insulated, Double Steel Tape Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	rm	7	0.8	1.8	13.5	286	1000	Drum
2.5	rm	7	0.8	1.8	14.4	338	1000	Drum
4	rm	7	1.0	1.8	16.3	449	1000	Drum
6	rm	7	1.0	1.8	17.6	548	1000	Drum
10	rm	7	1.0	1.8	19.6	727	1000	Drum
16	rm	7	1.0	1.8	21.7	965	1000	Drum
25	rm	7	1.2	1.8	25.4	1380	1000	Drum
35	rm	7	1.2	1.8	27.8	1745	1000	Drum
50	sm	19	1.4	1.9	27.8	1907	1000	Drum
70	sm	19	1.4	2.0	30.7	2557	1000	Drum
95	sm	19	1.6	2.2	36.8	3806	1000	Drum
120	sm	37	1.6	2.3	39.6	4567	1000	Drum
150	sm	37	1.8	2.5	43.4	5523	500	Drum
185	sm	37	2.0	2.6	47.9	6780	500	Drum
240	sm	37	2.2	2.8	53.4	8641	300	Drum
300	sm	37	2.4	3.0	59.1	10672	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.084	185	159	5.19	3.5
70	0.268	0.321	20	0.081	228	202	7.49	3.5
95	0.193	0.232	20	0.080	275	244	10.41	3.5
120	0.153	0.184	20	0.078	313	282	13.13	3.5
150	0.124	0.150	20	0.078	353	324	16.20	3.5
185	0.0991	0.120	20	0.078	399	371	20.27	3.5
240	0.0754	0.092	20	0.077	464	436	26.64	3.5
300	0.0601	0.074	20	0.077	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYBY (CU/PVC/DSTA/PVC) or VV_{22}

(Copper Conductor, PVC Insulated, Double Steel Tape Armoured, and PVC Sheathed)

Rated Voltage : 0.6/1 kV (1.2 kV)
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	rm	7	0.8	1.8	14.3	329	1000	Drum
2.5	rm	7	0.8	1.8	15.3	394	1000	Drum
4	rm	7	1.0	1.8	17.5	532	1000	Drum
6	rm	7	1.0	1.8	18.9	658	1000	Drum
10	rm	7	1.0	1.8	21.1	886	1000	Drum
16	rm	7	1.0	1.8	23.5	1192	1000	Drum
25	rm	7	1.2	1.8	27.7	1724	1000	Drum
35	rm	7	1.2	1.9	30.5	2210	1000	Drum
50	sm	19	1.4	2.0	31.7	2494	1000	Drum
70	sm	19	1.4	2.2	37.4	3756	1000	Drum
95	sm	19	1.6	2.4	42.6	4983	500	Drum
120	sm	37	1.6	2.5	46.4	6044	500	Drum
150	sm	37	1.8	2.6	50.7	7294	300	Drum
185	sm	37	2.0	2.8	56.1	8985	300	Drum
240	sm	37	2.2	3.0	62.7	11467	300	Drum
300	sm	37	2.4	3.2	69.0	14096	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
50	0.387	0.463	20	0.082	185	159	5.19	3.5
70	0.268	0.321	20	0.079	228	202	7.49	3.5
95	0.193	0.232	20	0.078	275	244	10.41	3.5
120	0.153	0.184	20	0.076	313	282	13.13	3.5
150	0.124	0.150	20	0.076	353	324	16.20	3.5
185	0.0991	0.120	20	0.076	399	371	20.27	3.5
240	0.0754	0.092	20	0.075	464	436	26.64	3.5
300	0.0601	0.074	20	0.075	524	481	33.42	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYBY (CU/PVC/DSTA/PVC) or VV_{22}

(Copper Conductor, PVC Insulated, Double Steel Tape Armoured, and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5	rm	7	0.8	1.8	15.2	370	1000	Drum
2.5	rm	7	0.8	1.8	16.3	447	1000	Drum
4	rm	7	1.0	1.8	18.8	611	1000	Drum
6	rm	7	1.0	1.8	20.4	761	1000	Drum
10	rm	7	1.0	1.8	22.8	1035	1000	Drum
16	rm	7	1.0	1.8	25.5	1404	1000	Drum
25	rm	7	1.2	1.9	30.3	2059	1000	Drum
35	rm	7	1.2	2.0	33.9	2682	1000	Drum
50	rm	19	1.4	2.2	40.1	3877	500	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4	4.61	5.516	50	0.103	31	26	0.44	3.5
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5
50	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or VVP_2

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

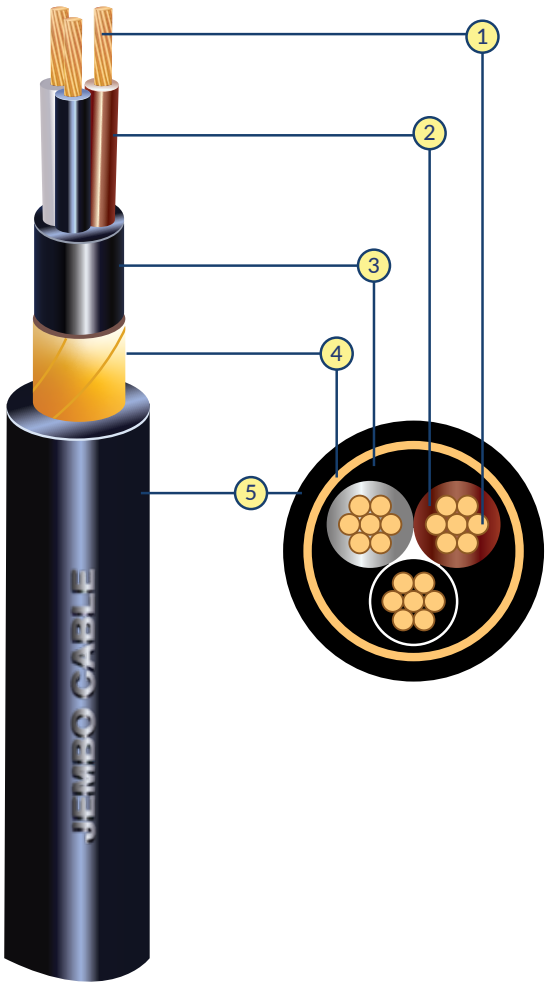
Rated Voltage	: 0.6/1 kV
Size Range	: 2 x 1.5 ... 35 mm²
	3 x 1.5 ... 35 mm²
	4 x 1.5 ... 35 mm²
	5 x 1.5 ... 35 mm²

Application:

Indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protective (copper tape screen)

Construction :

1. Conductor	: Annealed Copper Wire
2. Insulation	: Extruded PVC
3. Inner Sheath	: Extruded PVC (Black Color)
4. Screen	: Copper Tape Hellically
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 colors are available on request

Special Features on Request:

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

NYSY (CU/PVC/CTS/PVC) or VVP$_2$

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
				2 CORE				
1.5	rm	7	0.8	1.8	12.8	230	1000	Drum
2.5	rm	7	0.8	1.8	13.6	270	1000	Drum
4	rm	7	1.0	1.8	15.4	356	1000	Drum
6	rm	7	1.0	1.8	16.6	432	1000	Drum
10	rm	7	1.0	1.8	18.4	566	1000	Drum
16	rm	7	1.0	1.8	20.4	744	1000	Drum
25	rm	7	1.2	1.8	23.8	1058	1000	Drum
35	rm	7	1.2	1.8	26.0	1329	1000	Drum
				3 CORE				
1.5	rm	7	0.8	1.8	13.3	257	1000	Drum
2.5	rm	7	0.8	1.8	14.2	306	1000	Drum
4	rm	7	1.0	1.8	16.1	412	1000	Drum
6	rm	7	1.0	1.8	17.4	508	1000	Drum
10	rm	7	1.0	1.8	19.4	681	1000	Drum
16	rm	7	1.0	1.8	21.5	913	1000	Drum
25	rm	7	1.2	1.8	25.2	1318	1000	Drum
35	rm	7	1.2	1.8	27.6	1676	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
				2 CORE				
1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4	4.61	5.516	50	0.103	54	37	0.44	3.5
6	3.08	3.685	40	0.098	68	48	0.65	3.5
10	1.83	2.190	30	0.092	92	66	1.10	3.5
16	1.15	1.376	30	0.087	121	89	1.75	3.5
25	0.727	0.870	30	0.086	153	118	2.76	3.5
35	0.524	0.627	20	0.083	187	145	3.83	3.5
				3 CORE				
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or VVP$_2$

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
				4 CORE				
1.5	rm	7	0.8	1.8	14.1	298	1000	Drum
2.5	rm	7	0.8	1.8	15.1	360	1000	Drum
4	rm	7	1.0	1.8	17.3	492	1000	Drum
6	rm	7	1.0	1.8	18.7	614	1000	Drum
10	rm	7	1.0	1.8	20.9	835	1000	Drum
16	rm	7	1.0	1.8	23.3	1134	1000	Drum
25	rm	7	1.2	1.8	27.5	1655	1000	Drum
35	rm	7	1.2	1.9	30.3	2133	1000	Drum
				5 CORE				
1.5	rm	7	0.8	1.8	15.0	336	1000	Drum
2.5	rm	7	0.8	1.8	16.1	410	1000	Drum
4	rm	7	1.0	1.8	18.6	567	1000	Drum
6	rm	7	1.0	1.8	20.2	712	1000	Drum
10	rm	7	1.0	1.8	22.6	980	1000	Drum
16	rm	7	1.0	1.8	25.3	1341	1000	Drum
25	rm	7	1.2	1.8	29.9	1968	1000	Drum
35	rm	7	1.2	1.9	33.5	2580	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
				4 CORE				
1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4	4.61	5.516	50	0.103	44	34	0.44	3.5
6	3.08	3.685	40	0.098	56	43	0.65	3.5
10	1.83	2.190	30	0.092	75	60	1.10	3.5
16	1.15	1.376	30	0.087	98	80	1.75	3.5
25	0.727	0.870	30	0.086	128	106	2.76	3.5
35	0.524	0.627	20	0.083	157	131	3.83	3.5
				5 CORE				
1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4	4.61	5.516	50	0.103	31	26	0.44	3.5
6	3.08	3.685	40	0.098	39	32	0.65	3.5
10	1.83	2.190	30	0.092	53	45	1.10	3.5
16	1.15	1.376	30	0.087	69	60	1.75	3.5
25	0.727	0.870	30	0.086	90	80	2.76	3.5
35	0.524	0.627	20	0.083	110	98	3.83	3.5

Note:
* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)
** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or KVVP$_2$ CONTROL CABLE

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Specification:

SNI IEC 60502-1

IEC 60502-1

Other specification are available on request

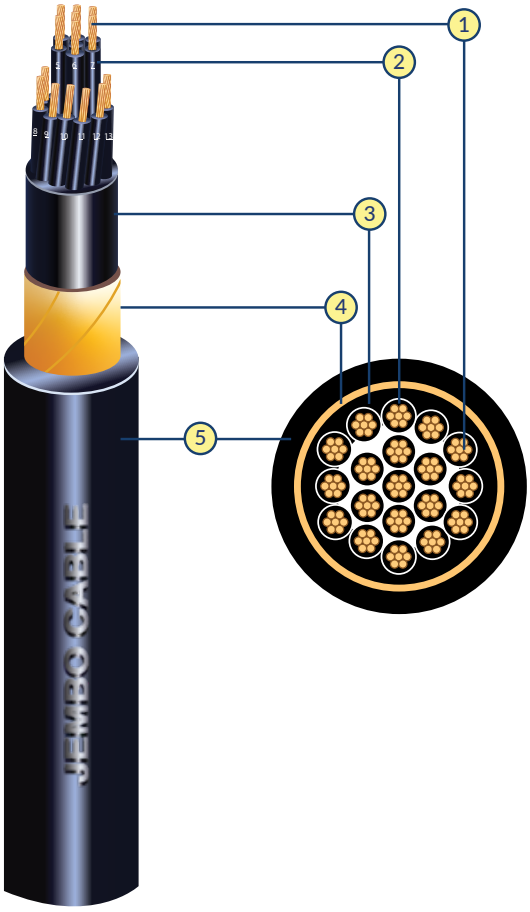
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 6 ... 61 x 1.5 mm²
	6 ... 61 x 2.5 mm²
	6 ... 61 x 4 mm²
	6 ... 61 x 6 mm²

Application:

Indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protective (copper tape screen)

Construction :

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



Identification of Cores : Black with white numbering

Other colors are available on request

Special Features on Request:

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

NYSY (CU/PVC/CTS/PVC) or KVVP$_2$ CONTROL CABLE

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : **0.6/1 kV (1.2 kV)**
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	1.5	rm	7	0.8	1.8	16.0	381	1000	Drum
7	1.5	rm	7	0.8	1.8	16.0	391	1000	Drum
8	1.5	rm	7	0.8	1.8	17.1	432	1000	Drum
9	1.5	rm	7	0.8	1.8	18.6	481	1000	Drum
10	1.5	rm	7	0.8	1.8	19.2	525	1000	Drum
12	1.5	rm	7	0.8	1.8	19.7	569	1000	Drum
14	1.5	rm	7	0.8	1.8	20.5	628	1000	Drum
16	1.5	rm	7	0.8	1.8	21.4	695	1000	Drum
19	1.5	rm	7	0.8	1.8	22.4	773	1000	Drum
20	1.5	rm	7	0.8	1.8	23.5	836	1000	Drum
21	1.5	rm	7	0.8	1.8	23.5	837	1000	Drum
24	1.5	rm	7	0.8	1.8	25.6	952	1000	Drum
27	1.5	rm	7	0.8	1.8	26.1	1019	1000	Drum
30	1.5	rm	7	0.8	1.8	26.9	1100	1000	Drum
32	1.5	rm	7	0.8	1.8	28.8	1182	1000	Drum
34	1.5	rm	7	0.8	1.8	28.8	1220	1000	Drum
37	1.5	rm	7	0.8	1.8	28.8	1289	1000	Drum
40	1.5	rm	7	0.8	1.8	29.9	1375	1000	Drum
50	1.5	rm	7	0.8	2.0	34.1	1725	1000	Drum
60	1.5	rm	7	0.8	2.0	36.0	1984	1000	Drum
61	1.5	rm	7	0.8	2.0	36.0	2007	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
7	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
8	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
9	1.5	12.1	14.478	50	0.112	16	12	0.17	3.5
10	1.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
14	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
16	1.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
20	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
21	1.5	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
27	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
32	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
34	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
37	1.5	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
50	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
60	1.5	12.1	14.478	50	0.112	8	6	0.17	3.5
61	1.5	12.1	14.478	50	0.112	7	6	0.17	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or KVVP$_2$ CONTROL CABLE

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : 0.6/1 kV (1.2 kV)
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	2.5	rm	7	0.8	1.8	17.2	469	1000	Drum
7	2.5	rm	7	0.8	1.8	17.2	486	1000	Drum
8	2.5	rm	7	0.8	1.8	18.4	539	1000	Drum
9	2.5	rm	7	0.8	1.8	20.1	601	1000	Drum
10	2.5	rm	7	0.8	1.8	20.8	659	1000	Drum
12	2.5	rm	7	0.8	1.8	21.4	721	1000	Drum
14	2.5	rm	7	0.8	1.8	22.3	802	1000	Drum
16	2.5	rm	7	0.8	1.8	23.3	893	1000	Drum
19	2.5	rm	7	0.8	1.8	24.4	1001	1000	Drum
20	2.5	rm	7	0.8	1.8	25.6	1082	1000	Drum
21	2.5	rm	7	0.8	1.8	25.6	1087	1000	Drum
24	2.5	rm	7	0.8	1.8	28.0	1239	1000	Drum
27	2.5	rm	7	0.8	1.8	28.6	1335	1000	Drum
30	2.5	rm	7	0.8	1.8	29.5	1447	1000	Drum
32	2.5	rm	7	0.8	1.9	32.2	1600	1000	Drum
34	2.5	rm	7	0.8	1.9	32.2	1656	1000	Drum
37	2.5	rm	7	0.8	1.9	32.2	1756	1000	Drum
40	2.5	rm	7	0.8	2.0	33.6	1891	1000	Drum
50	2.5	rm	7	0.8	2.1	37.7	2308	1000	Drum
60	2.5	rm	7	0.8	2.2	40.0	2691	1000	Drum
61	2.5	rm	7	0.8	2.2	40.0	2723	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	2.5	7.41	14.478	50	0.104	20	16	0.27	3.5
7	2.5	7.41	14.478	50	0.104	20	16	0.27	3.5
8	2.5	7.41	14.478	50	0.104	20	16	0.27	3.5
9	2.5	7.41	14.478	50	0.104	20	16	0.27	3.5
10	2.5	7.41	14.478	50	0.104	17	14	0.27	3.5
12	2.5	7.41	14.478	50	0.104	17	14	0.27	3.5
14	2.5	7.41	14.478	50	0.104	15	13	0.27	3.5
16	2.5	7.41	14.478	50	0.104	15	13	0.27	3.5
19	2.5	7.41	14.478	50	0.104	14	11	0.27	3.5
20	2.5	7.41	14.478	50	0.104	14	11	0.27	3.5
21	2.5	7.41	14.478	50	0.104	14	11	0.27	3.5
24	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
27	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
30	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
32	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
34	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
37	2.5	7.41	14.478	50	0.104	12	10	0.27	3.5
40	2.5	7.41	14.478	50	0.104	10	9	0.27	3.5
50	2.5	7.41	14.478	50	0.104	10	9	0.27	3.5
60	2.5	7.41	14.478	50	0.104	10	9	0.27	3.5
61	2.5	7.41	14.478	50	0.104	9	8	0.27	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or KVVP$_2$ CONTROL CABLE

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : 0.6/1 kV (1.2 kV)
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	4	rm	7	1.0	1.8	19.9	655	1000	Drum
7	4	rm	7	1.0	1.8	19.9	682	1000	Drum
8	4	rm	7	1.0	1.8	21.4	761	1000	Drum
9	4	rm	7	1.0	1.8	23.5	851	1000	Drum
10	4	rm	7	1.0	1.8	24.4	938	1000	Drum
12	4	rm	7	1.0	1.8	25.1	1035	1000	Drum
14	4	rm	7	1.0	1.8	26.3	1160	1000	Drum
16	4	rm	7	1.0	1.8	27.6	1299	1000	Drum
19	4	rm	7	1.0	1.8	28.9	1467	1000	Drum
20	4	rm	7	1.0	1.9	30.6	1603	1000	Drum
21	4	rm	7	1.0	1.9	30.6	1613	1000	Drum
24	4	rm	7	1.0	2.0	34.2	1892	1000	Drum
27	4	rm	7	1.0	2.0	34.9	2045	1000	Drum
30	4	rm	7	1.0	2.0	36.1	2220	1000	Drum
32	4	rm	7	1.0	2.1	38.9	2403	1000	Drum
34	4	rm	7	1.0	2.1	38.9	2494	1000	Drum
37	4	rm	7	1.0	2.1	38.9	2654	1000	Drum
40	4	rm	7	1.0	2.2	40.6	2859	500	Drum
50	4	rm	7	1.0	2.3	46.1	3545	500	Drum
60	4	rm	7	1.0	2.4	48.9	4144	500	Drum
61	4	rm	7	1.0	2.4	48.9	4195	500	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	4	4.61	5.516	50	0.103	26	22	0.44	3.5
7	4	4.61	5.516	50	0.103	26	22	0.44	3.5
8	4	4.61	5.516	50	0.103	26	22	0.44	3.5
9	4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4	4.61	5.516	50	0.103	20	17	0.44	3.5
16	4	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4	4.61	5.516	50	0.103	18	15	0.44	3.5
20	4	4.61	5.516	50	0.103	18	15	0.44	3.5
21	4	4.61	5.516	50	0.103	18	15	0.44	3.5
24	4	4.61	5.516	50	0.103	15	14	0.44	3.5
27	4	4.61	5.516	50	0.103	15	14	0.44	3.5
30	4	4.61	5.516	50	0.103	15	14	0.44	3.5
32	4	4.61	5.516	50	0.103	15	14	0.44	3.5
34	4	4.61	5.516	50	0.103	15	14	0.44	3.5
37	4	4.61	5.516	50	0.103	15	14	0.44	3.5
40	4	4.61	5.516	50	0.103	13	12	0.44	3.5
50	4	4.61	5.516	50	0.103	13	12	0.44	3.5
60	4	4.61	5.516	50	0.103	13	12	0.44	3.5
61	4	4.61	5.516	50	0.103	11	10	0.44	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYSY (CU/PVC/CTS/PVC) or KVVP$_2$ CONTROL CABLE

(Copper Conductor, PVC Insulated, Copper Tape Screen and PVC Sheathed)

Rated Voltage : 0.6/1 kV (1.2 kV)
Specification : SNI IEC 60502-1, IEC 60502-1

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
6	6	rm	7	1.0	1.8	21.7	828	1000	Drum
7	6	rm	7	1.0	1.8	21.7	870	1000	Drum
8	6	rm	7	1.0	1.8	23.4	973	1000	Drum
9	6	rm	7	1.0	1.8	25.8	1089	1000	Drum
10	6	rm	7	1.0	1.8	26.8	1206	1000	Drum
12	6	rm	7	1.0	1.8	27.6	1341	1000	Drum
14	6	rm	7	1.0	1.8	28.9	1510	1000	Drum
16	6	rm	7	1.0	1.9	30.6	1713	1000	Drum
19	6	rm	7	1.0	1.9	32.5	1976	1000	Drum
20	6	rm	7	1.0	2.0	34.4	2153	1000	Drum
21	6	rm	7	1.0	2.0	34.4	2171	1000	Drum
24	6	rm	7	1.0	2.1	38.0	2501	1000	Drum
27	6	rm	7	1.0	2.1	38.8	2714	1000	Drum
30	6	rm	7	1.0	2.2	40.3	2975	500	Drum
32	6	rm	7	1.0	2.3	43.9	3256	500	Drum
34	6	rm	7	1.0	2.3	43.9	3385	500	Drum
37	6	rm	7	1.0	2.3	43.9	3609	500	Drum
40	6	rm	7	1.0	2.3	45.6	3866	500	Drum
50	6	rm	7	1.0	2.5	51.5	4765	300	Drum
60	6	rm	7	1.0	2.6	55.1	5640	300	Drum
61	6	rm	7	1.0	2.6	55.1	5712	300	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
6	6	3.08	3.685	50	0.098	34	28	0.65	3.5
7	6	3.08	3.685	50	0.098	34	28	0.65	3.5
8	6	3.08	3.685	50	0.098	34	28	0.65	3.5
9	6	3.08	3.685	50	0.098	34	28	0.65	3.5
10	6	3.08	3.685	50	0.098	28	24	0.65	3.5
12	6	3.08	3.685	50	0.098	28	24	0.65	3.5
14	6	3.08	3.685	50	0.098	25	22	0.65	3.5
16	6	3.08	3.685	50	0.098	25	22	0.65	3.5
19	6	3.08	3.685	50	0.098	22	19	0.65	3.5
20	6	3.08	3.685	50	0.098	22	19	0.65	3.5
21	6	3.08	3.685	50	0.098	22	19	0.65	3.5
24	6	3.08	3.685	50	0.098	20	17	0.65	3.5
27	6	3.08	3.685	50	0.098	20	17	0.65	3.5
30	6	3.08	3.685	50	0.098	20	17	0.65	3.5
32	6	3.08	3.685	50	0.098	20	17	0.65	3.5
34	6	3.08	3.685	50	0.098	20	17	0.65	3.5
37	6	3.08	3.685	50	0.098	20	17	0.65	3.5
40	6	3.08	3.685	50	0.098	17	15	0.65	3.5
50	6	3.08	3.685	50	0.098	17	15	0.65	3.5
60	6	3.08	3.685	50	0.098	17	15	0.65	3.5
61	6	3.08	3.685	50	0.098	14	13	0.65	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

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

Specification:

SNI IEC 60502-1, IEC 60502-1

SPLN 43-4-1994

Other specification are available on request

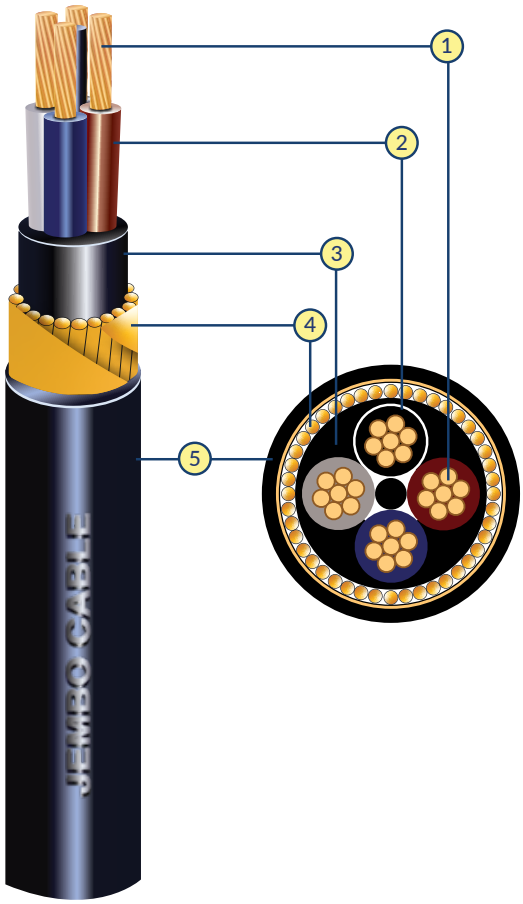
Rated Voltage	: 0.6/1 kV (1.2 kV)
Size Range	: 1 x 1.5 ... 300 mm²
	2 x 1.5 ... 300 mm²
	3 x 1.5 ... 300 mm²
	4 x 1.5 ... 300 mm²
	5 x 1.5 ... 50 mm²

Application:

Indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protective (copper tape screen)

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 colors are available on request

Special Features on Request:

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

NYCY (CU/PVC/CWS/PVC)

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

1 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5 / 1.5	re/rm	1/7	0.8	1.8	10.2	135	1000	Drum
2.5 / 2.5	re/rm	1/7	0.8	1.8	10.6	159	1000	Drum
4 / 4	re/rm	1/7	1.0	1.8	11.7	207	1000	Drum
6 / 6	re/rm	1/7	1.0	1.8	12.3	253	1000	Drum
10 / 10	re/rm	1/7	1.0	1.8	13.5	345	1000	Drum
16 / 16	rm	7	1.0	1.8	14.8	469	1000	Drum
25 / 16	rm	7	1.2	1.8	16.5	591	1000	Drum
35 / 16	rm	7	1.2	1.8	17.6	700	1000	Drum
50 / 25	rm	19	1.4	1.8	19.7	930	1000	Drum
70 / 35	rm	19	1.4	1.8	21.6	1235	1000	Drum
95 / 50	rm	19	1.6	1.8	24.4	1636	1000	Drum
120 / 70	rm	37	1.6	1.8	26.0	2061	1000	Drum
150 / 70	rm	37	1.8	1.8	27.9	2361	1000	Drum
185 / 95	rm	37	2.0	1.9	32.0	3009	1000	Drum
240 / 120	rm	61	2.2	2.0	34.4	3830	1000	Drum
300 / 150	rm	61	2.4	2.1	38.3	4747	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)		Current Carrying Capacity at 30°C		Short Circuit Current at 1 Sec.	AC Voltage Test
				Flat Formation	Trefoil Formation				
Nom. Cross Section Area	Max. DC Resistance at 20°C	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C			In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ohm/km	Ampere		kA	kV/5 min.
1.5 / 1.5	12.1	14.478	50	0.153	0.183	40	26	0.17	3.5
2.5 / 2.5	7.41	8.866	50	0.141	0.170	54	35	0.27	3.5
4 / 4	4.61	5.516	50	0.131	0.161	70	46	0.44	3.5
6 / 6	3.08	3.685	40	0.122	0.151	90	58	0.65	3.5
10 / 10	1.83	2.190	30	0.111	0.141	122	79	1.10	3.5
16 / 16	1.15	1.376	30	0.103	0.132	160	105	1.75	3.5
25 / 16	0.727	0.870	30	0.095	0.125	206	140	2.76	3.5
35 / 16	0.524	0.627	20	0.089	0.118	249	174	3.83	3.5
50 / 25	0.387	0.463	20	0.083	0.112	296	212	5.19	3.5
70 / 35	0.268	0.321	20	0.077	0.107	365	269	7.49	3.5
95 / 50	0.193	0.232	20	0.075	0.104	438	331	10.41	3.5
120 / 70	0.153	0.184	20	0.070	0.100	499	386	13.13	3.5
150 / 70	0.124	0.150	20	0.068	0.097	561	442	16.20	3.5
185 / 95	0.0991	0.120	20	0.070	0.099	637	511	20.27	3.5
240 / 120	0.0754	0.092	20	0.065	0.094	743	612	26.64	3.5
300 / 150	0.0601	0.074	20	0.065	0.094	843	707	33.42	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

2 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5 / 1.5	re/rm	1/7	0.8	1.8	13.4	229	1000	Drum
2.5 / 2.5	re/rm	1/7	0.8	1.8	14.2	275	1000	Drum
4 / 4	re/rm	1/7	1.0	1.8	16.2	372	1000	Drum
6 / 6	re/rm	1/7	1.0	1.8	17.4	462	1000	Drum
10 / 10	re/rm	1/7	1.0	1.8	19.5	630	1000	Drum
16 / 16	rm	7	1.0	1.8	21.8	857	1000	Drum
25 / 16	rm	7	1.2	1.8	25.2	1163	1000	Drum
35 / 16	rm	7	1.2	1.8	27.4	1428	1000	Drum
50 / 25	rm	19	1.4	1.9	31.4	1904	1000	Drum
70 / 35	rm	19	1.4	2.0	35.7	2586	1000	Drum
95 / 50	rm	19	1.6	2.2	41.1	3472	500	Drum
120 / 70	rm	37	1.6	2.3	44.5	4296	500	Drum
150 / 70	rm	37	1.8	2.4	48.9	5136	500	Drum
185 / 95	rm	37	2.0	2.6	55.5	6455	300	Drum
240 / 120	rm	61	2.2	2.8	61.4	8311	300	Drum
300 / 150	rm	61	2.4	3.0	67.9	10241	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5 / 1.5	12.1	14.478	50	0.112	31	20	0.17	3.5
2.5 / 2.5	7.41	8.866	50	0.104	41	27	0.27	3.5
4 / 4	4.61	5.516	50	0.103	54	37	0.44	3.5
6 / 6	3.08	3.685	40	0.098	68	48	0.65	3.5
10 / 10	1.83	2.190	30	0.092	92	66	1.10	3.5
16 / 16	1.15	1.376	30	0.087	121	89	1.75	3.5
25 / 16	0.727	0.870	30	0.086	153	118	2.76	3.5
35 / 16	0.524	0.627	20	0.083	187	145	3.83	3.5
50 / 25	0.387	0.463	20	0.080	222	176	5.19	3.5
70 / 35	0.268	0.321	20	0.078	272	224	7.49	3.5
95 / 50	0.193	0.232	20	0.077	328	271	10.41	3.5
120 / 70	0.153	0.184	20	0.075	375	314	13.13	3.5
150 / 70	0.124	0.150	20	0.075	419	361	16.20	3.5
185 / 95	0.0991	0.120	20	0.075	475	412	20.27	3.5
240 / 120	0.0754	0.092	20	0.074	525	484	26.64	3.5
300 / 150	0.0601	0.074	20	0.074	550	590	33.42	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

3 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5 / 1.5	re/rm	1/7	0.8	1.8	13.9	254	1000	Drum
2.5 / 2.5	re/rm	1/7	0.8	1.8	14.8	310	1000	Drum
4 / 4	re/rm	1/7	1.0	1.8	16.9	426	1000	Drum
6 / 6	re/rm	1/7	1.0	1.8	18.2	536	1000	Drum
10 / 10	re/rm	1/7	1.0	1.8	20.5	742	1000	Drum
16 / 16	rm	7	1.0	1.8	22.9	1023	1000	Drum
25 / 16	rm	7	1.2	1.8	26.6	1419	1000	Drum
35 / 16	rm	7	1.2	1.8	29.0	1772	1000	Drum
50 / 25	sm	19	1.4	2.0	29.6	2033	1000	Drum
70 / 35	sm	19	1.4	2.1	32.6	2755	1000	Drum
95 / 50	sm	19	1.6	2.3	38.1	3767	1000	Drum
120 / 70	sm	37	1.6	2.4	40.9	4671	500	Drum
150 / 70	sm	37	1.8	2.5	44.5	5558	500	Drum
185 / 95	sm	37	2.0	2.7	50.7	7024	300	Drum
240 / 120	sm	37	2.2	2.9	55.5	9015	300	Drum
300 / 150	sm	37	2.4	3.1	61.8	11218	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5 / 1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5 / 2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4 / 4	4.61	5.516	50	0.103	44	34	0.44	3.5
6 / 6	3.08	3.685	40	0.098	56	43	0.65	3.5
10 / 10	1.83	2.190	30	0.092	75	60	1.10	3.5
16 / 16	1.15	1.376	30	0.087	98	80	1.75	3.5
25 / 16	0.727	0.870	30	0.086	128	106	2.76	3.5
35 / 16	0.524	0.627	20	0.083	157	131	3.83	3.5
50 / 25	0.387	0.463	20	0.084	185	159	5.19	3.5
70 / 35	0.268	0.321	20	0.081	228	202	7.49	3.5
95 / 50	**0.193**	0.232	20	0.080	275	244	10.41	**3.5**
120 / 70	0.153	0.184	20	0.078	313	282	13.13	**3.5**
150 / 70	0.124	0.150	20	0.078	353	324	16.20	**3.5**
185 / 95	0.0991	0.120	20	0.078	399	371	20.27	**3.5**
240 / 120	0.0754	0.092	20	0.077	464	436	26.64	**3.5**
300 / 150	0.0601	0.074	20	0.077	524	481	33.42	**3.5**

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

4 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5 / 1.5	re/rm	1/7	0.8	1.8	14.7	293	1000	Drum
2.5 / 2.5	re/rm	1/7	0.8	1.8	15.7	361	1000	Drum
4 / 4	re/rm	1/7	1.0	1.8	18.1	503	1000	Drum
6 / 6	re/rm	1/7	1.0	1.8	19.5	638	1000	Drum
10 / 10	re/rm	1/7	1.0	1.8	22.0	893	1000	Drum
16 / 16	rm	7	1.0	1.8	24.7	1240	1000	Drum
25 / 16	rm	7	1.2	1.8	28.9	1751	1000	Drum
35 / 16	rm	7	1.2	1.9	31.7	2224	1000	Drum
50 / 25	sm	19	1.4	2.1	33.5	2603	1000	Drum
70 / 35	sm	19	1.4	2.2	37.8	3577	1000	Drum
95 / 50	sm	19	1.6	2.4	43.7	4846	500	Drum
120 / 70	sm	37	1.6	2.5	47.5	6033	500	Drum
150 / 70	sm	37	1.8	2.7	52.0	7247	300	Drum
185 / 95	sm	37	2.0	2.9	59.0	9118	300	Drum
240 / 120	sm	37	2.2	3.1	64.8	11713	300	Drum
300 / 150	sm	37	2.4	3.3	71.7	14507	300	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5 / 1.5	12.1	14.478	50	0.112	26	18.5	0.17	3.5
2.5 / 2.5	7.41	8.866	50	0.104	34	25	0.27	3.5
4 / 4	4.61	5.516	50	0.103	44	34	0.44	3.5
6 / 6	3.08	3.685	40	0.098	56	43	0.65	3.5
10 / 10	1.83	2.190	30	0.092	75	60	1.10	3.5
16 / 16	1.15	1.376	30	0.087	98	80	1.75	3.5
25 / 16	0.727	0.870	30	0.086	128	106	2.76	3.5
35 / 16	0.524	0.627	20	0.083	157	131	3.83	3.5
50 / 25	0.387	0.463	20	0.082	185	159	5.19	3.5
70 / 35	0.268	0.321	20	0.079	228	202	7.49	3.5
95 / 50	**0.193**	0.232	20	0.078	275	244	10.41	**3.5**
120 / 70	0.153	0.184	20	0.076	313	282	13.13	**3.5**
150 / 70	0.124	0.150	20	0.076	353	324	16.20	**3.5**
185 / 95	0.0991	0.120	20	0.076	399	371	20.27	3.5
240 / 120	0.0754	0.092	20	0.075	464	436	26.64	**3.5**
300 / 150	0.0601	0.074	20	0.075	524	481	33.42	**3.5**

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

5 CORE								
Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
mm²	-	-	mm	mm	mm	kg/km	m	-
1.5 / 1.5	re/rm	1/7	0.8	1.8	15.6	329	1000	Drum
2.5 / 2.5	re/rm	1/7	0.8	1.8	16.7	409	1000	Drum
4 / 4	re/rm	1/7	1.0	1.8	19.4	575	1000	Drum
6 / 6	re/rm	1/7	1.0	1.8	21.0	734	1000	Drum
10 / 10	re/rm	1/7	1.0	1.8	23.7	1033	1000	Drum
16 / 16	rm	7	1.0	1.8	26.7	1442	1000	Drum
25 / 16	rm	7	1.2	1.9	31.5	2074	1000	Drum
35 / 16	rm	7	1.2	2.0	35.1	2680	1000	Drum
50 / 25	rm	19	1.4	2.2	40.5	3574	1000	Drum

ELECTRICAL DATA

Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
1.5 / 1.5	12.1	14.478	50	0.112	18	14	0.17	3.5
2.5 / 2.5	7.41	8.866	50	0.104	24	19	0.27	3.5
4 / 4	4.61	5.516	50	0.103	31	26	0.44	3.5
6 / 6	3.08	3.685	40	0.098	39	32	0.65	3.5
10 / 10	1.83	2.190	30	0.092	53	45	1.10	3.5
16 / 16	1.15	1.376	30	0.087	69	60	1.75	3.5
25 / 16	0.727	0.870	30	0.086	90	80	2.76	3.5
35 / 16	0.524	0.627	20	0.083	110	98	3.83	3.5
50 / 25	0.387	0.463	20	0.080	130	119	5.19	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

CONTROL CABLE

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

Specification:

SNI IEC 60502-1, IEC 60502-1

SPLN 43-4-1994

Other specification are available on request

Rated Voltage : 0.6/1 kV (1.2 kV)

Size Range : 7 ... 40 x 1.5 mm²

7 ... 40 x 2.5 mm²

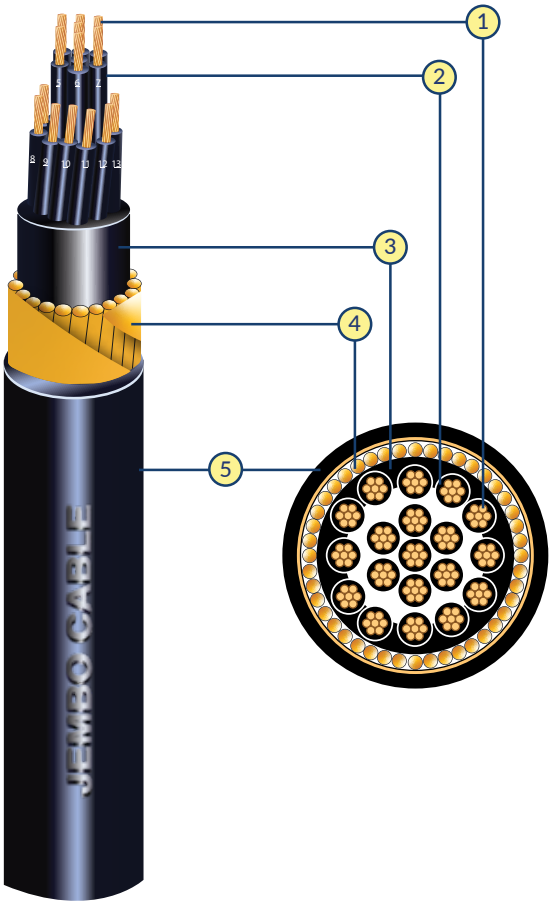
7 ... 19 x 4 mm²

Application:

Indoor and outdoor in duct installation, laying in rack cable tray where cable with electrical protective (copper tape screen)

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 colors are available on request

Special Features on Request:

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

NYCY (CU/PVC/CWS/PVC)

CONTROL CABLE

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
7	1.5 / 2.5	re/rm	1/7	0.8	1.8	16.6	391	1000	Drum
10	1.5 / 2.5	re/rm	1/7	0.8	1.8	19.8	517	1000	Drum
12	1.5 / 2.5	re/rm	1/7	0.8	1.8	20.3	559	1000	Drum
14	1.5 / 2.5	re/rm	1/7	0.8	1.8	21.1	617	1000	Drum
19	1.5 / 4	re/rm	1/7	0.8	1.8	23.2	773	1000	Drum
24	1.5 / 6	re/rm	1/7	0.8	1.8	26.4	961	1000	Drum
30	1.5 / 6	re/rm	1/7	0.8	1.8	27.7	1106	1000	Drum
40	1.5 / 10	re/rm	1/7	0.8	1.9	31.2	1427	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
7	1.5 / 2.5	12.1	14.478	50	0.112	16	12	0.17	3.5
10	1.5 / 2.5	12.1	14.478	50	0.112	13	10	0.17	3.5
12	1.5 / 2.5	12.1	14.478	50	0.112	13	10	0.17	3.5
14	1.5 / 2.5	12.1	14.478	50	0.112	12	9	0.17	3.5
19	1.5 / 4	12.1	14.478	50	0.112	10	8	0.17	3.5
24	1.5 / 6	12.1	14.478	50	0.112	9	7	0.17	3.5
30	1.5 / 6	12.1	14.478	50	0.112	9	7	0.17	3.5
40	1.5 / 10	12.1	14.478	50	0.112	8	6	0.17	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

CONTROL CABLE

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
7	2.5 / 2.5	re/rm	1/7	0.8	1.8	17.8	482	1000	Drum
10	2.5 / 4	re/rm	1/7	0.8	1.8	21.6	662	1000	Drum
12	2.5 / 4	re/rm	1/7	0.8	1.8	22.2	723	1000	Drum
14	2.5 / 6	re/rm	1/7	0.8	1.8	23.1	819	1000	Drum
19	2.5 / 6	re/rm	1/7	0.8	1.8	25.2	1013	1000	Drum
24	2.5 / 10	re/rm	1/7	0.8	1.8	29.1	1281	1000	Drum
30	2.5 / 10	re/rm	1/7	0.8	1.9	30.8	1499	1000	Drum
40	2.5 / 10	re/rm	1/7	0.8	2.0	34.7	1922	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
7	2.5 / 2.5	7.41	8.866	50	0.104	20	16	0.27	3.5
10	2.5 / 4	7.41	8.866	50	0.104	17	14	0.27	3.5
12	2.5 / 4	7.41	8.866	50	0.104	17	14	0.27	3.5
14	2.5 / 6	7.41	8.866	50	0.104	15	13	0.27	3.5
19	2.5 / 6	7.41	8.866	50	0.104	14	11	0.27	3.5
24	2.5 / 10	7.41	8.866	50	0.104	12	10	0.27	3.5
30	2.5 / 10	7.41	8.866	50	0.104	12	10	0.27	3.5
40	2.5 / 10	7.41	8.866	50	0.104	10	9	0.27	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

NYCY (CU/PVC/CWS/PVC)

CONTROL CABLE

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

Rated Voltage : **0.6/1 kV (1.2 kV)**

Specification : SNI IEC 60502-1, IEC 60502-1, SPLN 43-4-1994

CONSTRUCTION

No. of Core	CONTROL CABLE								
	Conductor			Nom. Thickness		Approx Overall Dia.	Approx Net. Weight	Standard Length	Packing
	Nom. Cross Section Area	Construction	No. of Wire	Insulation	Sheath				
-	mm²	-	-	mm	mm	mm	kg/km	m	-
7	4 / 4	re/rm	1/7	1.0	1.8	20.7	687	1000	Drum
10	4 / 6	re/rm	1/7	1.0	1.8	25.2	950	1000	Drum
12	4 / 6	re/rm	1/7	1.0	1.8	25.9	1045	1000	Drum
14	4 / 6	re/rm	1/7	1.0	1.8	27.1	1167	1000	Drum
19	4 / 10	re/rm	1/7	1.0	1.9	30.2	1521	1000	Drum

ELECTRICAL DATA

No. of Core	Conductor				Reactance at 50 Hz (X)	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	Max. AC Resistance at 70°C (R)	Insulation Resistance at 20°C		In Ground	In Air		
-	mm²	Ohm/km	Ohm/km	M.Ohm.km	Ohm/km	Ampere		kA	kV/5 min.
7	4 / 4	4.61	5.516	50	0.103	26	22	0.44	3.5
10	4 / 6	4.61	5.516	50	0.103	22	19	0.44	3.5
12	4 / 6	4.61	5.516	50	0.103	22	19	0.44	3.5
14	4 / 6	4.61	5.516	50	0.103	20	17	0.44	3.5
19	4 / 10	4.61	5.516	50	0.103	18	15	0.44	3.5

Note:

* Current Carrying Capacity refers to SNI 0225: 2011/Amd 1: 2013 (adopted with modification from IEC 60364-5-52 edition 3.0)

** If site conditions are different. The tabulated current ratings should be multiplied by rating factors as show in table page 76-80

CONDITION FOR CURRENT CARRYING CAPACITY

Conditions for determination of deratings are:

* One circuit of three phase load
* Maximum conductor temperature: 70°C
* Maximum temperature short circuit: 160°C
* No other heat sources installed near the group of cables
* For cables laid direct in ground
  - Ground temperature : 30°C
  - Depth of laying : 70 cm
  - Specific thermal resistivity of soil : 100°C cm/watt
* For cable laid in air
  - Air temperature : 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 tables below

A. GROUPING IN GROUND

1. Ground Temperature

Ground Temperature (°C)	15	20	25	30	35	40
PVC INSULATION	1.18	1.12	1.07	1.00	0.94	0.87

2. Thermal Resistivity of Soil

Thermal Resistivity of Soil (°C cm/watt)	70	100	150	250
PVC INSULATION	1.12	1.00	0.82	0.70

3. Depth of Laying

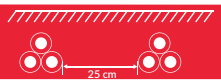
Depth of Laying (cm)	50	70	100	120	160	200
PVC INSULATION	1.01	1.00	0.99	0.98	0.97	0.96

4. Multi Core Cable

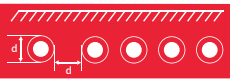
	Number of Grouping							
	1	2	3	4	5	6	7	10
PVC INSULATION	1.00	0.89	0.75	0.68	0.64	0.60	0.56	0.53

5. Single Core Cable

5.1 Trefoil Formation

	Number of Grouping					
	1	2	3	4	5	6
PVC INSULATION	1.87	0.79	0.75	0.72	0.69	0.66

5.2 Flat Formation

	Number of Grouping					
	1	2	3	4	5	6
PVC INSULATION	1.00	0.85	0.75	0.68	0.64	0.60

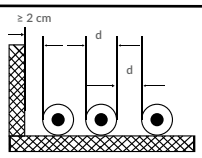
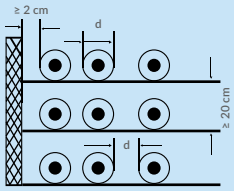
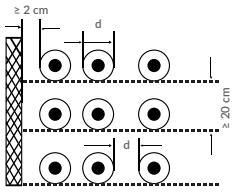
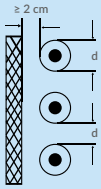
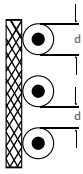
B. GROUPING IN AIR

1. Air Temperature

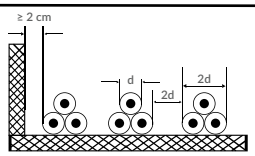
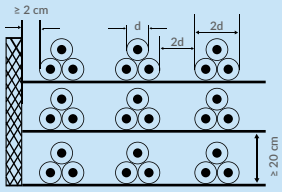
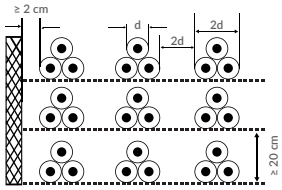
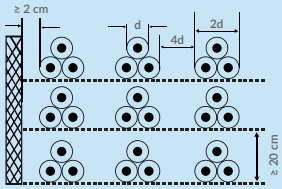
Air Temperature (°C)	15	20	25	30	35	40
PVC INSULATION	1.12	1.12	1.06	1.00	0.94	0.87

2. Single Core Cable in Three Phase System

2.1 Flat Formation

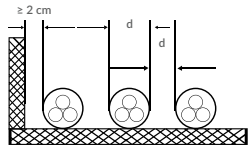
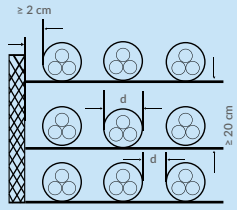
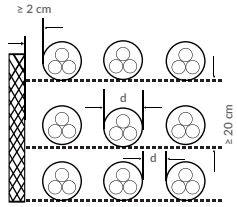
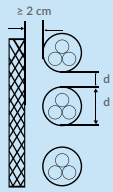
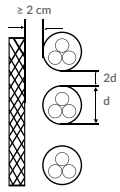
Clearance from the wall ≥ 2 cm Clearance between cables = Cable diameter (d)		Number of Circuit			
		1	2	3	
		Rating Factors			
Cables laid on the ground		0.92	0.89	0.88	
Cable laid on troughs	Number of troughs				
	1	0.92	0.89	0.88	
	2	0.87	0.84	0.83	
	3	0.84	0.82	0.81	
	6	0.82	0.80	0.79	
Cable laid on racks	Number 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	

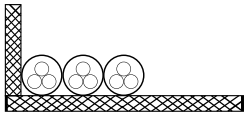
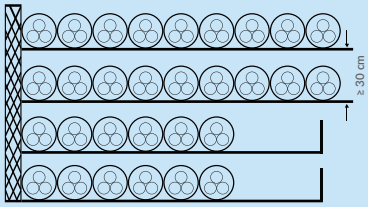
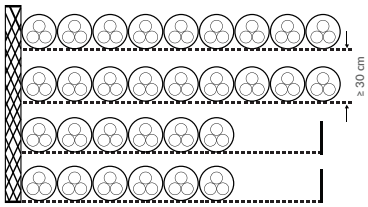
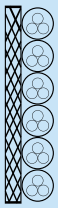
2.2 Trefoil Formation

		Number of Circuit			
Clearance from the wall > 2 cm Clearance between cables = 2 diameter (2d)		1	2	3	
		Rating Factors			
Cables laid on the ground		0.95	0.90	0.88	
Cable laid on troughs	Number 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	Number 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)		Clearance from the wall ≥ 2 cm Clearance between cables = 2 diameter (2d)			

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

3.1 Flat Formation

Clearance from the wall ≥ 2 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 (circulation of air is restricted)	Number 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	Number 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 ratings is not necessary		Clearance from the wall ≥ 2 cm					
		Clearance from the wall > 2 d					

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 (circulation of air is restricted)	Number 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	Number 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 on the wall		0.95	0.78	0.73	0.68	0.66	

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Oct 23, I