PT SUPREME CABLE
MANUFACTURING & COMMERCE Tbk.

(PT SUCACO Tbk.)

ISO 9001 SGS Cert. No. : ID16/03504 | UKAS MANAGEMENT SYSTEMS 005 | ISO 14001 SGS Cert. No. :ID05/66527 | ISO 45001 SGS Cert. No. : ID21/05663



Product Catalogue

LOW VOLTAGE

PVC Insulated Cable

Scan For Catalogue



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Company Background

Specializing in the cable business since 1970, PT SUPREME CABLE MANUFACTURING & COMMERCE Tbk. (PT SUCACO Tbk.) has grown steadly to become a largest and leading cable manufacturer, with international reputation for quality and reliability. Established in 1970, PT SUCACO Tbk. is a pioneer in the modern industry. With technical assistance from Furukawa Electric Co Ltd. Japan and International Executives Service Corp, USA, the company began commercial operations in 1972.

We produce and markets power cable up to 150 kV, optical and telecommunication cables, control cables, instrumentation cables, coaxial cables, aluminium bare over head conductors and enamelled wires under brand name of " SUPREME ". The Company is also involved through its affiliated companies, in various line of business. The company has a Quality Assurance Program and ISO 9001 certificate from SGS international certification body of quality management system, ISO 14001 for environment management system and ISO 18001 for safety management system. Today, PT SUCACO Tbk. has grown to become a reliable partner in infrastructures, buildings and various projects.

Main Uses of Power Cables and Conductors

Hydro Electric Power Plan



Main uses:
MV, LV, Building Wire,
Ground Conductor

Thermal Power Plan



Main uses:
MV, LV, Building Wire,
Ground Conductor

Nuclear Power Plan



Main uses:
MV, LV, Building Wire,
Ground Conductor

- Bare Aluminium Conductor

- Bare Aluminium Conductor
- HV Under Ground Cable

Extra High Voltage Transmission Line



- Bare Aluminium Conductor

High Voltage Transmission Line



- Bare Aluminium Conductor
- MV (Aerial or Under Ground Cable)

Medium & Low Voltage Distribution Line



- MV Under Ground Cable

- MV Under Ground Cable

Industry



Cable main uses:
MV, LV, Building Wire

Buildings (Office, Shopping Mall, Hotel)



Cable main uses:
MV, LV, Building Wire

Airport



Cable main uses:
MV, LV, FLYCY, Building Wire

- MV
(Aerial or
Under Ground
Cable)

- LV
(Aerial or
Under Ground
Cable)

Domestic Consumers



Cable main uses:
Building Wire

OUR PRODUCTS















SUPREME

SUPREME CABLE

Your Partner for Quality and Reliability















*For each product's detail, please found on our product catalogue

Index Low Voltage PVC INSULATED Cables

CABLE TYPE	SIZE	VOLTAGE (kV)	STANDARD	PAGE
Cu/PVC (NYA)	1.5~300 mm^2	450/750	SNI 04 6629-3/IEC 60227.3	1
Cu/PVC/PVC (NYY)	1~5 cores	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	2~7
Cu/PVC/PVC (NYY)	1.5~4 mm^2	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	8~10
Cu/PVC/AWA/PVC (NYRY)	1 core	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	11
Cu/PVC/SWA/PVC (NYRGbY) **Cu/PVC/SFA/PVC (NYFGbY)**	2~5 cores	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	12-16
Cu/PVC/SWA/PVC (NYRGbY) **Cu/PVC/SFA/PVC (NYFGbY)**	1.5~4 mm^2	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	17~19
Cu/PVC/CTS/PVC (NYSY)	1~4 cores	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	20~23
Cu/PVC/CTS/PVC (NYSY)	1.5~4 mm^2	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	24~26
Cu/PVC/CWS/PVC (NYCY)	1~5 cores	0.6/1(1.2)	IEC 60502-1/ SNI IEC 60502-1	27~31
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CONVERSION TABLE				39



Cu/PVC (NYA) - 450/750 VOLT

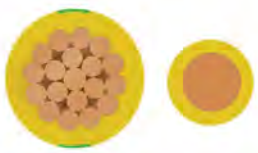
IEC 60227.3/SNI 04-6629.3

Single Core, Copper Conductor and PVC INsulated Cable

Main Uses : Used for grounding cable or internal wiring in dry location

DIMENSIONAL & MECHANICAL DATA

Nominal cross-sectional area	No. of wire and conductor shape		Nominal insulation thickness	Approximately		Bending diameter min	Standard delivery length
				Overall diameter	Net Weight		
mm²	pcs	-	mm	mm	Kg/Km	mm	m
1.5	1	re	0.7	2.9	20	80	100/Coil
1.5	7	rm	0.7	3.0	21	90	100/Coil
2.5	1	re	0.8	3.5	32	100	100/Coil
2.5	7	rm	0.8	3.7	34	110	100/Coil
4	1	re	0.8	3.9	47	120	100/Coil
4	7	rm	0.8	4.3	51	140	100/Coil
6	1	re	0.8	4.4	67	140	100/Coil
6	7	rm	0.8	4.8	71	160	100/Coil
10	1	re	1.0	5.7	111	180	100/Coil
10	7	rm	1.0	6.2	119	210	100/Coil
16	7	rm	1.0	7.3	179	250	100/Coil
25	7	rm	1.2	9.0	281	310	1,000/drum
35	7	rm	1.2	10.2	379	360	1,000/drum
50	19	rm	1.4	11.9	507	420	1,000/drum
70	19	rm	1.4	13.8	713	490	1,000/drum
95	19	rm	1.6	16.1	985	580	1,000/drum
120	37	rm	1.6	17.7	1,222	640	1,000/drum
150	37	rm	1.8	19.7	154	710	1,000/drum
185	37	rm	2.0	22.0	1,885	800	1,000/drum
240	61	rm	2.2	25.3	2,465	920	1,000/drum
300	61	rm	2.4	28.2	3,083	1,030	1,000/drum
400	61	rm	2.6	31.6	3,926	1,160	1,000/drum



ELECTRICAL DATA

Nominal cross sectional area	Resistance at 20 °C		Current carrying capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In Pipe	In Air	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	10	15	24	0.19
2.5	7.41	9	20	32	0.32
4	4.61	8	25	43	0.50
6	3.08	7	33	54	0.73
10	1.83	7	45	74	1.20
16	1.15	5	61	98	1.91
25	0.727	5	83	140	2.96
35	0.524	5	104	159	4.13
50	0.387	5	132	197	5.87
70	0.268	4	166	247	8.19
95	0.193	4	198	293	11.09
120	0.153	3	236	345	13.98
150	0.124	3	-	391	17.46
185	0.0991	3	-	449	21.50
240	0.0754	3	-	529	27.86
300	0.0601	3	-	609	34.79
400	0.0470	3	-	724	46.34

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA — 1 Core

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm²	pcs	-				Kg/Km	mm	m
1.5	1	re	0.8	1.4	6	49	80	1,000
1.5	7	rm	0.8	1.4	7	55	90	1,000
2.5	1	re	0.8	1.4	7	66	90	1,000
2.5	7	rm	0.8	1.4	7	70	90	1,000
4	1	re	1.0	1.4	8	91	100	1,000
4	7	rm	1.0	1.4	8	97	100	1,000
6	1	re	1.0	1.4	8	113	100	1,000
6	7	rm	1.0	1.4	9	121	110	1,000
10	1	re	1.0	1.4	9	157	110	1,000
10	7	rm	1.0	1.4	9	168	110	1,000
16	7	rm	1.0	1.4	10	234	140	1,000
25	7	rm	1.2	1.4	12	344	150	1,000
35	7	rm	1.2	1.4	13	445	160	1,000
50	19	rm	1.4	1.4	15	578	180	1,000
70	19	rm	1.4	1.4	17	793	210	1,000
95	19	rm	1.6	1.5	19	1,079	230	1,000
120	67	rm	1.6	1.5	21	1,319	260	1,000
150	37	rm	1.8	1.6	23	1,622	280	1,000
185	37	rm	2.0	1.7	25	2,009	300	1,000
240	61	rm	2.2	1.8	29	2,612	350	1,000
300	61	rm	2.4	1.9	32	3,236	390	1,000
400	61	rm	2.6	2.0	35	4,077	420	500
500	61	rm	2.8	2.1	39	5,139	470	500

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
			⊙⊙⊙	⊙⊙⊙	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	21	33	0.19
2.5	7.41	10	25	45	0.32
4	4.61	10	46	58	0.50
6	3.08	8	58	74	0.73
10	1.83	6	80	98	1.20
16	1.15	5	100	107	1.91
25	0.727	5	135	138	2.96
35	0.524	4	170	185	4.13
50	0.387	4	205	196	5.87
70	0.268	3	260	240	8.19
95	0.193	3	320	289	11.09
120	0.153	3	375	329	13.98
150	0.124	3	430	374	17.46
185	0.0991	3	490	418	21.50
240	0.0754	3	590	481	27.86
300	0.0601	3	680	552	34.79
400	0.0470	3	825	632	41.50
500	0.0366	2	960	730	51.84

Note : This is only general information. For other specific requirement, please contact our marketing.







Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA 2 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm²	pcs	-	mm	mm	mm	Kg/Km	mm	m
1.5	1	re	0.8	1.8	12	205	150	1,000
1.5	7	rm	0.8	1.8	13	213	160	1,000
2.5	1	re	0.8	1.8	13	243	160	1,000
2.5	7	rm	0.8	1.8	14	259	170	1,000
4	1	re	1.0	1.8	15	326	180	1,000
4	7	rm	1.0	1.8	16	351	200	1,000
6	1	re	1.0	1.8	16	390	200	1,000
6	7	rm	1.0	1.8	17	422	210	1,000
10	1	re	1.0	1.8	18	514	220	1,000
10	7	rm	1.0	1.8	18	557	220	1,000
16	7	rm	1.0	1.8	21	744	260	1,000
25	7	rm	1.2	1.8	24	1,066	290	1,000
35	7	rm	1.2	1.8	26	1,342	320	1,000
50	19	rm	1.4	1.8	30	1,735	360	1,000
70	19	rm	1.4	1.9	33	2,331	400	1,000
95	19	rm	1.6	2.0	39	3,159	470	1,000
120	37	rm	1.6	2.1	42	3,829	510	500
150	37	rm	1.8	2.2	46	4,667	560	500
185	37	rm	2.0	2.4	51	5,805	620	500
240	61	rm	2.2	2.6	58	7,482	700	500
300	61	rm	2.4	2.7	64	9,253	770	500

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	21	27	0.19
2.5	7.41	10	29	36	0.32
4	4.61	10	38	47	0.50
6	3.08	8	48	59	0.73
10	1.83	6	66	78	1.20
16	1.15	5	90	102	1.91
25	0.727	5	120	134	2.96
35	0.524	4	150	160	4.13
50	0.387	4	180	187	5.87
70	0.268	3	230	230	8.19
95	0.193	3	275	280	11.09
120	0.153	3	320	320	13.98
150	0.124	3	375	355	17.46
185	0.0991	3	430	409	21.50
240	0.0754	3	510	472	27.86
300	0.0601	3	590	525	34.79

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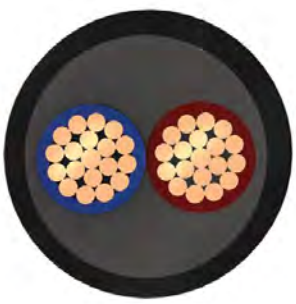




Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

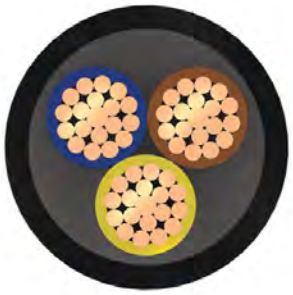
IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA 3 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm²	pcs	-	mm			Kg/Km	mm	m
1.5	1	re	0.8	1.8	13	229	160	1,000
1.5	7	rm	0.8	1.8	13	237	160	1,000
2.5	1	re	0.8	1.8	14	276	170	1,000
2.5	7	rm	0.8	1.8	14	295	170	1,000
4	1	re	1.0	1.8	16	377	200	1,000
4	7	rm	1.0	1.8	16	406	200	1,000
6	1	re	1.0	1.8	17	459	210	1,000
6	7	rm	1.0	1.8	17	495	210	1,000
10	1	re	1.0	1.8	19	620	220	1,000
10	7	rm	1.0	1.8	19	669	230	1,000
16	7	rm	1.0	1.8	22	912	270	1,000
25	7	rm	1.2	1.8	25	1,325	300	1,000
35	7	rm	1.2	1.8	28	1,688	340	1,000
35	19	sm	1.2	1.8	28	1,411	300	1,000
50	19	sm	1.4	1.8	30	1,829	340	1,000
70	19	sm	1.4	2.0	34	2,527	380	1,000
95	19	sm	1.6	2.1	36	3,404	440	1,000
120	37	sm	1.6	2.2	38	4,155	460	500
150	37	sm	1.8	2.3	43	5,119	520	500
185	37	sm	2.0	2.5	47	6,324	570	500
240	37	sm	2.2	2.7	53	8,224	640	500
300	37	sm	2.4	3.1	59	10,304	710	300



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.73
10	1.83	6	60	69	1.20
16	1.15	5	80	89	1.91
25	0.727	5	105	116	2.96
35	0.524	4	130	138	4.13
50	0.387	4	160	165	5.87
70	0.268	3	200	205	8.19
95	0.193	3	245	245	11.09
120	0.153	3	285	285	13.98
150	0.124	3	325	315	17.46
185	0.0991	3	370	355	21.50
240	0.0754	3	435	415	27.86
300	0.0601	3	500	465	34.79

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Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA

4 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm²	pcs	-	mm			Kg/Km	mm	m
1.5	1	re	0.8	1.8	14	262	170	1,000
1.5	7	rm	0.8	1.8	14	272	170	1,000
2.5	1	re	0.8	1.8	15	320	180	1,000
2.5	7	rm	0.8	1.8	15	343	180	1,000
4	1	re	1.0	1.8	17	443	210	1,000
4	7	rm	1.0	1.8	18	477	220	1,000
6	1	re	1.0	1.8	18	546	220	1,000
6	7	rm	1.0	1.8	19	589	230	1,000
10	1	re	1.0	1.8	20	749	240	1,000
10	7	rm	1.0	1.8	21	807	260	1,000
16	7	rm	1.0	1.8	24	1,113	290	1,000
25	7	rm	1.2	1.8	28	1,630	340	1,000
35	7	rm	1.2	1.8	30	2,092	360	1,000
35	19	sm	1.2	1.8	28	1,869	340	1,000
50	19	sm	1.4	1.9	32	2,491	390	1,000
70	19	sm	1.4	2.1	36	3,381	440	1,000
95	19	sm	1.6	2.2	40	4,534	480	500
120	37	sm	1.6	2.3	44	5,596	530	500
150	37	sm	1.8	2.5	49	6,877	590	500
185	37	sm	2.0	2.7	53	8,462	640	500
240	37	sm	2.2	2.9	60	10,999	720	300
300	37	sm	2.4	3.1	66	13,616	800	300



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.73
10	1.83	6	60	69	1.20
16	1.15	5	80	89	1.91
25	0.727	5	105	116	2.96
35	0.524	4	130	138	4.13
50	0.387	4	160	165	5.87
70	0.268	3	200	205	8.19
95	0.193	3	245	245	11.09
120	0.153	3	285	285	13.98
150	0.124	3	325	315	17.46
185	0.0991	3	370	355	21.50
240	0.0754	3	435	415	27.86
300	0.0601	3	500	465	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA

3 Cores + ground

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm²	pcs	-	mm			Kg/Km	mm	m
3 x 25 + 16	7/7	rm/rm	1.2/1.0	1.8	27	1,501	330	1,000
3 x 35 + 16	7/7	rm/rm	1.2/1.0	1.8	29	1,846	350	1,000
3 x 35 + 16	19/7	sm/rm	1.2/1.0	1.8	28	1,668	340	1,000
3 x 50 + 25	19/7	sm/rm	1.4/1.2	1.9	32	2,224	390	1,000
3 x 70 + 35	19/7	sm/rm	1.4/1.2	2.0	36	3,024	440	1,000
3 x 95 + 50	19/19	sm/rm	1.6/1.4	2.2	40	4,051	480	500
3 x 120 + 70	37/19	sm/rm	1.6/1.4	2.3	44	5,083	530	500
3x 150 + 70	37/19	sm/rm	1.8/1.4	2.4	49	6,052	590	500
3 x 185 + 95	37/19	sm/rm	2.0/1.6	2.6	53	7,535	640	500
3x 240 + 120	37/37	sm/rm	2.2/1.6	2.8	60	9,725	720	300
3 x 300 + 150	37/37	sm/rm	2.4/1.8	2.9	65	11,983	780	300



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
3 x 25 + 16	0.727/1.15	5/5	105	116	2.96
3 x 35 + 16	0.524/1.15	4/5	130	138	4.13
3 x 50 + 25	0.387/0.727	4/5	160	165	5.87
3 x 70 + 35	0.268/0.524	3/4	200	205	8.19
3 x 95 + 50	0.193/0.387.	3/4	245	245	11.09
3 x 120 + 70	0.153/0.268	3/3	285	285	13.98
3x 150 + 70	0.124/0.268	3/3	325	315	17.46
3 x 185 + 95	0.0991/0.193	3/3	370	355	21.50
3x 240 + 120	0.0754/0.153	3/3	435	415	27.86
3 x 300 + 150	0.0601/0.124	3/3	500	465	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

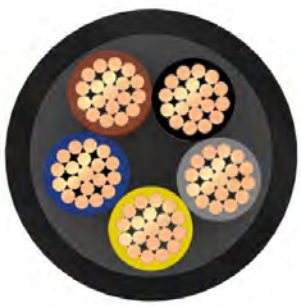
Copper conductor, PVC insulated and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA

5 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
mm^2	pcs	-	mm			Kg/Km	mm	m
1.5	1	re	0.8	1.8	15	306	180	1,000
1.5	7	rm	0.8	1.8	15	317	180	1,000
2.5	1	re	0.8	1.8	16	375	200	1,000
2.5	7	rm	0.8	1.8	16	401	200	1,000
4	1	re	1.0	1.8	18	529	220	1,000
4	7	rm	1.0	1.8	19	568	230	1,000
6	1	re	1.0	1.8	19	652	230	1,000
6	7	rm	1.0	1.8	20	701	240	1,000
10	1	re	1.0	1.8	21	897	260	1,000
10	7	rm	1.0	1.8	23	974	280	1,000
16	7	rm	1.0	1.8	26	1,343	320	1,000
25	7	rm	1.2	1.8	30	1,992	360	1,000
35	7	rm	1.2	1.9	33	2,569	400	1,000
50	19	rm	1.4	2.0	39	3,421	470	500



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm^2	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.73
10	1.83	6	60	69	1.20
16	1.15	5	80	89	1.91
25	0.727	5	105	116	2.96
35	0.524	4	130	138	4.13
50	0.387	4	160	165	5.87

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA — **Control cable 1.5 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
pcs	pcs	-	mm			Kg/Km	mm	m
7	1	re	0.8	1.8	16	37	200	1,000
7	7	rm	0.8	1.8	16	348	200	1,000
8	1	re	0.8	1.8	17	372	210	1,000
8	7	rm	0.8	1.8	17	385	210	1,000
10	1	re	0.8	1.8	19	448	230	1,000
10	7	rm	0.8	1.8	19	463	230	1,000
12	1	re	0.8	1.8	19	499	230	1,000
12	7	rm	0.8	1.8	20	516	240	1,000
14	1	re	0.8	1.8	20	554	240	1,000
14	7	rm	0.8	1.8	21	573	260	1,000
16	1	re	0.8	1.8	21	621	260	1,000
16	7	rm	0.8	1.8	22	642	270	1,000
19	1	re	0.8	1.8	22	690	270	1,000
19	7	rm	0.8	1.8	22	714	270	1,000
21	1	re	0.8	1.8	23	747	280	1,000
21	7	rm	0.8	1.8	23	773	280	1,000
24	1	re	0.8	1.8	25	845	300	1,000
24	7	rm	0.8	1.8	26	874	320	1,000
30	1	re	0.8	1.8	26	994	320	1,000
30	7	rm	0.8	1.8	27	1,029	330	1,000
40	1	re	0.8	1.8	29	1,253	350	500
40	7	rm	0.8	1.8	30	1,296	360	500
52	1	re	0.8	1.9	33	1,619	400	500
52	7	rm	0.8	1.9	34	1,674	410	500
61	1	re	0.8	2.0	36	1,854	420	500
61	7	rm	0.8	2.0	36	1,918	440	500

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	12.1	12	10	14	0.19
8	12.1	12	10	14	0.19
10	12.1	12	9	12	0.19
12	12.1	12	9	12	0.19
14	12.1	12	8	10	0.19
16	12.1	12	8	10	0.19
19	12.1	12	7	9	0.19
21	12.1	12	7	9	0.19
24	12.1	12	6	8	0.19
30	12.1	12	6	8	0.19
40	12.1	12	5	7	0.19
52	12.1	12	5	7	0.19
61	12.1	12	4	6	0.19



Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA

Control cable 2.5 mm2

No of cores	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
pcs	pcs	-	mm			Kg/Km	mm	m
7	1	re	0.8	1.8	17	423	210	1,000
7	7	rm	0.8	1.8	18	451	220	1,000
8	1	re	0.8	1.8	18	470	220	1,000
8	7	rm	0.8	1.8	19	502	230	1,000
10	1	re	0.8	1.8	20	569	240	1,000
10	7	rm	0.8	1.8	21	608	260	1,000
12	1	re	0.8	1.8	21	640	260	1,000
12	7	rm	0.8	1.8	22	685	270	1,000
14	1	re	0.8	1.8	22	717	270	1,000
14	7	rm	0.8	1.8	23	767	280	1,000
16	1	re	0.8	1.8	23	805	280	1,000
16	7	rm	0.8	1.8	24	861	290	1,000
19	1	re	0.8	1.8	24	905	290	1,000
19	7	rm	0.8	1.8	25	970	300	1,000
21	1	re	0.8	1.8	25	984	300	1,000
21	7	rm	0.8	1.8	26	1,055	320	1,000
24	1	re	0.8	1.8	27	1,115	330	1,000
24	7	rm	0.8	1.8	29	1,195	350	1,000
30	1	re	0.8	1.8	29	1,326	350	500
30	7	rm	0.8	1.8	30	1,422	360	500
40	1	re	0.8	1.9	32	1,704	390	500
40	7	rm	0.8	1.9	34	1,829	410	500
52	1	re	0.8	2.0	36	2,193	440	500
52	7	rm	0.8	2.0	38	2,355	460	500
61	1	re	0.8	2.1	38	2,529	460	500
61	7	rm	0.8	2.1	40	2,716	480	500



ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	7.41	10	16	19	0.32
8	7.41	10	16	19	0.32
10	7.41	10	13	16	0.32
12	7.41	10	13	16	0.32
14	7.41	10	12	14	0.32
16	7.41	10	12	14	0.32
19	7.41	10	11	12	0.32
21	7.41	10	11	12	0.32
24	7.41	10	10	11	0.32
30	7.41	10	10	11	0.32
40	7.41	10	8	9	0.32
52	7.41	10	8	9	0.32
61	7.41	10	7	8	0.32

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/PVC (NYY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated and PVC sheathed

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage

DIMENSIONAL & MECHANICAL DATA — **Control cable 4 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness		Approximately		Bending radius min	Standard delivery length
			Insulation	Outer sheath	Overall diameter	Net Weight		
pcs	pcs	-	mm			Kg/Km	mm	m
7	1	re	1.0	1.8	20	596	240	500
7	7	rm	1.0	1.8	20	639	240	500
8	1	re	1.0	1.8	21	667	260	500
8	7	rm	1.0	1.8	22	715	270	500
10	1	re	1.0	1.8	24	813	290	500
10	7	rm	1.0	1.8	25	873	300	500
12	1	re	1.0	1.8	24	924	290	500
12	7	rm	1.0	1.8	26	993	320	500
14	1	re	1.0	1.8	26	1,042	320	500
14	7	rm	1.0	1.8	27	1,121	330	500
16	1	re	1.0	1.8	27	1,180	330	500
16	7	rm	1.0	1.8	28	1,268	340	500
19	1	re	1.0	1.8	28	1,333	340	500
19	7	rm	1.0	1.8	30	1,435	360	500
21	1	re	1.0	1.8	29	1,454	350	500
21	7	rm	1.0	1.8	31	1,566	380	500
24	1	re	1.0	1.9	33	1,706	400	500
24	7	rm	1.0	1.9	35	1,836	420	500
30	1	re	1.0	2.0	35	2,049	420	500
30	7	rm	1.0	2.0	37	2,206	450	500
40	1	re	1.0	2.1	39	2,639	470	500
40	7	rm	1.0	2.1	41	2,843	500	500
52	1	re	1.0	2.3	45	3,424	540	500
52	7	rm	1.0	2.3	47	3,690	570	500
61	1	re	1.0	2.4	47	3,952	570	500
61	7	rm	1.0	2.4	50	4,259	600	500



ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	4.61	50	22	24	0.50
8	4.61	50	22	24	0.50
10	4.61	50	18	20	0.50
12	4.61	50	18	20	0.50
14	4.61	50	17	18	0.50
16	4.61	50	17	18	0.50
19	4.61	50	15	16	0.50
21	4.61	50	15	16	0.50
24	4.61	50	13	14	0.50
30	4.61	50	13	14	0.50
40	4.61	50	11	12	0.50
52	4.61	50	11	12	0.50
61	4.61	50	10	11	0.50

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/AWA/PVC (NYRY) 0.6/1 kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Aluminium wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

1 Core

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Dia of ALwire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
25	7	rm	1.2	0.9	1.8	10.9	17	534	210	1,000
35	7	rm	1.2	0.	1.8	12.0	18	650	220	1,000
50	19	rm	1.4	1.25	1.8	13.7	21	845	260	1,000
70	19	rm	1.4	1.25	1.8	15.5	23	1,088	280	1,000
85	19	rm	1.6	1.25	1.8	17.8	25	1,403	300	1,000
120	37	rm	1.6	1.6	1.8	19.4	27	1,722	330	1,000
150	37	rm	1.8	1.6	1.8	21.4	29	2,045	350	1,000
185	37	rm	2.0	1.6	1.8	23.5	31	2,457	380	1,000
240	61	rm	2.2	1.6	1.9	26.5	34	3,113	410	1,000
300	61	rm	2.4	2.0	2.0	29.3	38	3,866	460	1,000
400	61	rm	2.6	2.0	2.1	33.0	42	4,825	510	500
500	61	rm	2.8	2.0	2.2	36.6	46	5,965	560	500

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C				Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR		In GROUND		
			⁂	⊙⊙⊙	⁂	⊙⊙⊙	
mm²	Ω/Km	MΩ.Km	A		A		kA
25	0.727	5	126	129	128	133	2.96
35	0.524		152	159	153	159	4.13
50	0.387	4	186	189	181	189	5.87
70	0.268		233	240	221	232	8.19
95	0.193	3	285	294	265	278	11.09
120	0.153		334	344	303	319	13.98
150	0.124	3	375	388	334	352	17.46
185	0.0991		429	445	375	398	21.50
240	0.0754	3	492	508	424	448	27.86
300	0.0601		591	623	493	531	34.79
400	0.0470	3	653	693	531	577	41.50
500	0.0366		787	856	629	699	51.84

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/SWA/PVC (NYRGbY)
Cu/PVC/SFA/PVC (NYFGbY)
0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

2 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
1,5	1	re	0,8	0,9	1,8	8,6	14	370	240	1,000
1,5	7	rm	0,8	0,9	1,8	8,9	15	410	260	1,000
2,5	1	re	0,8	0,9	1,8	9,6	15	425	257	1,000
2,5	7	rm	0,8	0,9	1,8	9,8	16	467	290	1,000
4	1	re	1,0	0,9	1,8	10,6	16	515	290	1,000
4	7	rm	1,0	0,9	1,8	11,4	17	596	300	1,000
6	1	re	1,0	0,9	1,8	11,6	17	590	310	1,000
6	7	rm	1,0	0,9	1,8	12,5	19	784	260	1,000
10	1	re	1,0	0,9	1,8	13,2	20	850	350	1,000
10	7	rm	1,0	0,9	1,8	14,2	21	877	260	1,000
16	7	rm	1,0	0,9	1,8	16,3	23	1,108	280	1,000
25	7	rm	1,2	1,6	1,8	19,7	28	1,778	340	1,000
35	7	rm	1,2	1,6	1,8	22,0	30	2,126	360	1,000
50	19	rm	1,4	1,6	1,8	25,4	33	2,627	400	1,000
70	19	rm	1,4	2,0	1,9	29,0	39	3,572	460	1,000
95	19	rm	1,6	2,0	2,2	33,9	44	4,637	530	1,000
120	37	rm	1,6	2,0	2,3	37,1	47	5,449	570	500
150	37	rm	1,8	2,5	2,4	41,0	52	6,859	630	500
185	37	rm	2,0	2,5	2,6	45,8	57	8,224	690	500
240	61	rm	2,2	2,5	2,8	51,8	64	10,205	770	300
300	61	rm	2,4	2,5	2,9	57,7	70	12,282	840	300
NYFGbY										
25	7	rm	1,2	0,8	1,8	19,7	26	1.522	320	1.000
35	7	rm	1,2	0,8	1,8	22	28	1.857	340	1.000
50	19	rm	1,4	0,8	1,9	25,4	32	2.330	390	1.000
70	19	rm	1,4	0,8	2	29,4	36	3.055	440	1.000
95	19	rm	1,6	0,8	2,1	33,9	41	3.943	500	500
120	37	rm	1,6	0,8	2,2	37,1	44	4.681	590	500
150	37	rm	1,8	0,8	2,3	41,4	49	5.670	590	500
185	37	rm	2	0,8	2,5	45,8	54	6.849	650	500
240	61	rm	2,2	0,8	2,7	51,8	60	8.679	720	300
300	61	rm	2,4	0,8	2,8	57,7	66	10.577	800	300





ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	21	27	0.19
2.5	7.41	10	39	36	0.32
4	4.61	10	37	48	0.50
6	3.08	8	45	60	0.72
10	1.83	6	65	77	1.20
16	1.15	5	89	101	1.91
25	0.727	5	119	113	2.96
35	0.524	4	148	158	4.13
50	0.387	4	178	185	5.87
70	0.268	3	228	228	8.19
95	0.193	3	272	277	11.09
120	0.153	3	317	317	13.98
150	0.124	3	371	351	17.46
185	0.0991	3	426	405	21.50
240	0.0754	3	505	467	27.86
300	0.0601	3	584	520	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/SWA/PVC (NYRGbY)
Cu/PVC/SFA/PVC (NYFGbY)
0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

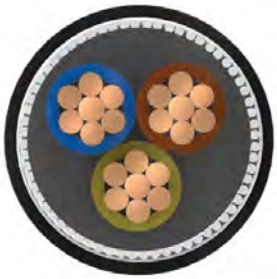
Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

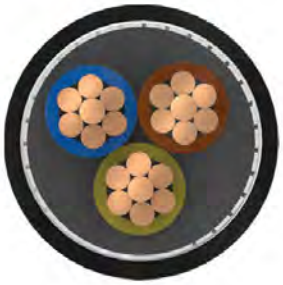
Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

3 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
1,5	1	re	0,8	0,9	1,8	8,6	14	420	192	1,000
1,5	7	rm	0,8	0,9	1,8	9,2	15	448	260	1,000
2,5	1	re	0,8	0,9	1,8	11,6	15	480	205	1,000
2,5	7	rm	0,8	0,9	1,8	10,1	16	515	265	1,000
4	1	re	1,0	1.25	1,8	11,8	18	707	220	1,000
4	7	rm	1,0	1.25	1,8	12,1	19	761	300	1,000
6	1	re	1,0	1.25	1,8	12,4	19	808	230	1,000
6	7	rm	1,0	1.25	1,8	13,3	21	892	260	1,000
10	1	re	1,0	1.25	1,8	15,6	21	910	270	1,000
16	7	rm	1,0	0.9	1,8	17,4	24	1,294	290	1,000
25	7	rm	1,2	1.6	1,8	21,1	29	2,089	350	1,000
35	7	rm	1,2	1.6	1,8	23,5	32	2,526	390	1,000
35	19	sm	1,2	1.6	1,8	20,7	29	2,158	350	1,000
50	19	sm	1,4	2.0	2,0	23,5	32	2,692	390	1,000
70	19	sm	1,4	2.0	2,0	26,8	36	3,687	440	1,000
95	19	sm	1,6	2.0	2,3	30,9	41	4,771	500	500
120	37	sm	1,6	2.0	2,4	33,4	43	5,634	520	500
150	37	sm	1,8	2.5	2,5	37,3	49	7,144	590	500
185	37	sm	2,0	2.5	2,7	41,1	53	8,526	640	300
240	37	sm	2,2	2.5	2,9	46,7	59	10,694	710	300
300	37	sm	2,4	2,5	3,1	51,6	64	12,916	770	300
NYFGbY										
25	7	rm	1,2	0,8	1,8	21,1	28	1.811	340	1.000
35	7	rm	1,2	0,8	1,8	23,5	30	2.235	360	1.000
35	19	sm	1,2	0,8	1,8	20,7	27	1.896	330	1.000
50	19	sm	1,4	0,8	1,9	23,5	30	2.391	360	1.000
70	19	sm	1,4	0,8	2.0	26,8	34	3.139	410	1.000
95	19	sm	1,6	0,8	2.2	30,9	38	4.128	460	500
120	37	sm	1,6	0,8	2.3	33,4	41	4.939	500	500
150	37	sm	1,8	0,8	2.4	37,3	45	5.972	540	500
185	37	sm	2	0,8	2.6	41,1	49	7.271	590	500
240	37	sm	2,2	0,8	2.8	46,7	55	9.298	660	300
300	37	sm	2,4	0,8	3.0	51,6	60	11.384	720	300





ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.72
10	1.83	6	59	68	1.20
16	1.15	5	79	88	1.91
25	0.727	5	104	115	2.96
35	0.524	4	129	136	4.13
50	0.387	4	158	163	5.87
70	0.268	3	198	203	8.19
95	0.193	3	242	242	11.09
120	0.153	3	282	282	13.98
150	0.124	3	322	312	17.46
185	0.0991	3	366	351	21.50
240	0.0754	3	430	411	27.86
300	0.0601	3	595	460	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/SWA/PVC (NYRGbY)
Cu/PVC/SFA/PVC (NYFGbY)
0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA — **3Cores + 1 ground**

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv. steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm^2	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
3 x 50 + 25	19/7	sm/rm	1.4/1.2	2.0	2.0	27.4	37	1,420	450	1,000
3 x 70 + 35	19/7	sm/rm	1.4/1.2	2.0	2.1	31.2	41	4,369	500	1,000
3 x 95 + 50	19/19	sm/rm	1.6/1.4	2.0	2.2	35.2	45	5,545	540	500
3 x 120 + 70	37/19	sm/rm	1.6/1.4	2.5	2.3	39.0	50	7,105	600	500
3 x 150 + 70	37/19	sm/rm	1.8/1.4	2.5	2.5	43.4	55	8,316	660	500
3 x 185 + 95	37/19	sm/rm	2.0/1.6	2.5	2.6	47.2	59	9,986	710	250
3 x 240 + 120	37/37	sm/rm	2.2/1.6	2.5	2.8	53.5	65	12,477	780	250
3 x 300 + 150	37/37	sm/rm	2.4/1.8	2.5	3.0	58.9	71	15,026	860	200
NYFGbY										
3 x 50 + 25	19/7	sm/rm	1.4/1.2	0.8	2.0	27.4	34	2,847	410	1,000
3 x 70 + 35	19/7	sm/rm	1.4/1.2	0.8	2.1	31.2	38	3,746	460	1,000
3 x 95 + 50	19/19	sm/rm	1.6/1.4	0.8	2.2	35.2	42	4,848	510	500
3 x 120 + 70	37/19	sm/rm	1.6/1.4	0.8	2.3	39.0	46	5,971	560	500
3 x 150 + 70	37/19	sm/rm	1.8/1.4	0.8	2.5	43.4	51	7,061	620	500
3 x 185 + 95	37/19	sm/rm	2.0/1.6	0.8	2.6	47.2	55	8,584	660	500
3 x 240 + 120	37/37	sm/rm	2.2/1.6	0.8	2.8	53.5	62	10,927	750	500
3 x 300 + 150	37/37	sm/rm	2.4/1.8	0.8	3.0	58.9	68	13,340	820	200





ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm^2	Ω/Km	MΩ.Km	A		kA
3 x 50 + 25	0.387/0.727	4/5	158	163	5.87
3 x 70 + 35	0.268/0.524	3/4	198	203	8.19
3 x 95 + 50	0.193/0.387	3/4	242	242	11.09
3 x 120 + 70	0.153/0.268	3/3	282	282	13.98
3 x 150 + 70	0.124/0.268	3/3	322	312	17.46
3 x 185 + 95	0.0991/0.193	3/3	366	351	21.50
3 x 240 + 120	0.0754/0.153	3/3	430	411	27.86
3 x 300 + 150	0.0601/0.124	3/3	495	460	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/SWA/PVC (NYRGbY)
Cu/PVC/SFA/PVC (NYFGbY)
0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

4 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
1,5	1	re	0,8	0,9	1,8	10,6	16	495	195	1,000
1,5	7	rm	0,8	0,9	1,8	10,8	16	500	265	1,000
2,5	1	re	0,8	0,9	1,8	11,6	17	520	207	1,000
2,5	7	rm	0,8	0,9	1,8	11,0	17	580	290	1,000
4	1	re	1,0	1.25	1,8	13,6	19	665	232	1,000
4	7	rm	1,0	1.25	1,8	13,3	20	855	250	1,000
6	1	re	1,0	1.25	1,8	14,6	20	802	244	1,000
6	7	rm	1,0	1.25	1,8	14,6	22	996	270	1,000
10	1	re	1,0	1.25	1,8	16,6	22	1101	268	1,000
10	7	rm	1,0	1.25	1,8	16,7	23	1,177	280	1,000
16	7	rm	1,0	1.6	1,8	19,3	27	1,807	330	1,000
25	7	rm	1,2	1.6	1,8	23,4	32	2,467	390	1,000
35	7	rm	1,2	1.6	1,9	26,1	34	3,021	410	1,000
35	19	sm	1,2	1.6	1,9	24,0	32	2,741	390	1,000
50	19	sm	1,4	2.0	2,1	27,8	37	3,731	450	1,000
70	19	sm	1,4	2.0	2,2	31,2	41	4,730	500	1,000
95	19	sm	1,6	2.5	2,4	35,2	46	6,427	560	500
120	37	sm	1,6	2.5	2,5	39,0	50	7,667	600	500
150	37	sm	1,8	2.5	2,7	43,4	55	9,168	660	500
185	37	sm	2,0	2.5	2,9	47,6	60	11,034	720	500
240	37	sm	2,2	2,5	3,1	53,5	66	13,817	600	500
300	37	sm	2,4	2,5	3,3	58,9	72	16,702	870	200
NYFGbY										
16	7	rm	1.0	0,8	1.8	19.3	26	1.567	320	1.000
25	7	sm	1.2	0,8	1.8	23.4	30	2.176	360	1.000
35	7	rm	1.2	0,8	1.9	26.1	33	2.691	400	1.000
35	19	sm	1.2	0,8	1.9	24.0	31	2.433	380	1.000
50	19	sm	1.4	0,8	2.0	27.8	35	3.141	420	1.000
70	19	sm	1.4	0,8	2.1	31.2	38	4.086	460	1.000
95	19	sm	1.6	0,8	2.3	35.2	43	5.352	520	500
120	37	sm	1.6	0,8	2.4	39.0	47	6.506	570	500
150	37	sm	1.8	0,8	2.6	43.4	51	7.885	620	500
185	37	sm	2.0	0,8	2.8	47.8	56	9.624	680	500
240	37	sm	2.2	0,8	3.0	53.5	62	12.232	750	500
300	37	sm	2.4	0,8	3.2	58.9	68	14.978	820	200





ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.72
10	1.83	6	59	68	1.20
16	1.15	5	79	88	1.91
25	0.727	5	104	115	2.96
35	0.524	4	129	136	4.13
50	0.387	4	158	163	5.87
70	0.268	3	198	203	8.19
95	0.193	3	242	242	11.09
120	0.153	3	282	282	13.98
150	0.124	3	322	312	17.46
185	0.0991	3	366	351	21.50
240	0.0754	3	430	411	27.86
300	0.0601	3	595	460	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/SWA/PVC (NYRGbY)
Cu/PVC/SFA/PVC (NYFGbY)
0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

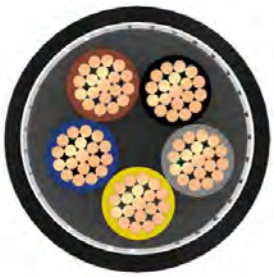
Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

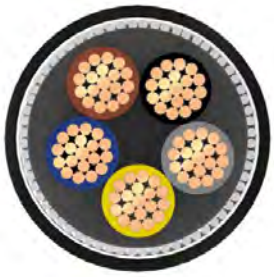
Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

5 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
1,5	7	rm	0,8	0,9	1,8	10,8	17	500	340	1,000
1,5	1	re	0,8	0,9	1,8	10,6	16	510	195	1,000
2,5	7	rm	0,8	0,9	1,8	12,0	18	520	400	1,000
2,5	1	re	0,8	1.25	1,8	11,6	17	615	208	1,000
4	7	rm	1,0	1.25	1,8	14,0	19	680	480	1,000
4	1	re	1,0	1.25	1,8	13,6	19	790	232	1,000
6	7	rm	1,0	1.25	1,8	15,2	21	820	480	1,000
6	1	re	1,0	1.25	1,8	15,6	21	1050	260	1,000
10	7	rm	1,0	1.25	1,8	17,1	24	1130	540	1,000
10	1	re	1,0	1.6	1,8	18,2	25	1470	305	1,000
16	7	rm	1,0	1.6	1,9	21,3	30	2,124	360	1,000
25	7	rm	1,2	1.6	2,0	25,9	34	2,929	410	1,000
35	7	rm	1,2	2.0	2,0	28,9	38	3,820	460	1,000
50	19	rm	1,4	2.0	2,1	34,0	43	4,877	520	1,000
NYFGbY										
16	7	rm	1.0	0,8	1.8	21.3	280	1.830	340	1.000
25	7	rm	1.2	0,8	1.9	25.9	330	2.589	400	1.000
35	7	rm	1.2	0,8	2.0	28.9	360	3.248	440	1.000
50	19	rm	1.4	0,8	2.1	34.0	410	4.205	500	1.000





ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	34	0.32
4	4.61	10	34	41	0.50
6	3.08	8	44	52	0.72
10	1.83	6	59	68	1.20
16	1.15	5	79	88	1.91
25	0.727	5	104	115	2.96
35	0.524	4	129	136	4.13
50	0.387	4	158	163	5.87

Note : This is only general information. For other specific requirement, please contact our marketing.







Cu/PVC/SWA/PVC (NYRGbY) & Cu/PVC/SFA/PVC (NYFGbY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA

Control cable 1.5 mm2

No of cores	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
7	1	re	0.8	0.9	1.8	11.4	18	578	220	1,000
7	7	rm	0.8	0.9	1.8	11.8	18	595	220	1,000
8	1	re	0.8	0.9	1.8	12.4	19	629	230	1,000
8	7	rm	0.8	0.9	1.8	12.8	19	651	230	1,000
10	1	re	0.8	0.9	1.8	14.5	21	740	260	1,000
10	7	rm	0.8	0.9	1.8	15.0	22	766	270	1,000
12	1	re	0.8	0.9	1.8	14.9	21	801	260	1,000
12	7	rm	0.8	0.9	1.8	15.5	22	828	270	1,000
14	1	re	0.8	0.9	1.8	15.7	22	871	270	1,000
14	7	rm	0.8	0.9	1.8	16.3	23	901	280	1,000
16	1	re	0.8	0.9	1.8	16.6	23	953	280	1,000
16	7	rm	0.8	0.9	1.8	17.3	24	984	290	1,000
19	1	re	0.8	1.6	1.8	17.5	26	1,329	320	1,000
19	7	rm	0.8	1.6	1.8	18.2	26	1,372	320	1,000
21	1	re	0.8	1.6	1.8	18.4	27	1,422	330	1,000
21	7	rm	0.8	1.6	1.8	19.2	27	1,467	330	1,000
24	1	re	0.8	1.6	1.8	20.5	29	1,591	350	1,000
24	7	rm	0.8	1.6	1.8	21.4	29	1,640	350	1,000
30	1	re	0.8	1.6	1.8	21.8	30	1,777	360	500
30	7	rm	0.8	1.6	1.8	22.7	31	1,831	380	500
40	1	re	0.8	2.0	1.9	24.5	34	2,342	410	500
40	7	rm	0.8	2.0	1.9	25.5	35	2,414	420	500
52	1	re	0.8	2.0	2.1	28.3	38	2,860	460	500
52	7	rm	0.8	2.0	2.1	29.5	39	2,971	470	500
61	1	re	0.8	2.0	2.1	30.1	40	3,169	480	500
61	7	rm	0.8	2.0	2.1	31.3	41	3,288	500	500
NYFGbY										
21	1	re	0.8	0.8	1.8	18.4	25	1,173	300	1,000
21	7	rm	0.8	0.8	1.8	19.2	26	1,227	320	1,000
24	1	re	0.8	0.8	1.8	20.5	27	1,329	330	1,000
24	7	rm	0.8	0.8	1.8	21.4	28	1,362	340	1,000
30	1	re	0.8	0.8	1.8	21.8	28	1,483	340	1,000
30	7	rm	0.8	0.8	1.8	22.7	29	1,547	350	1,000
40	1	re	0.8	0.8	1.9	24.5	31	1,819	380	500
40	7	rm	0.8	0.8	1.9	25.5	32	1,892	390	500
52	1	re	0.8	0.8	2.0	28.3	35	2,270	420	500
52	7	rm	0.8	0.8	2.0	29.5	36	2,356	440	500
61	1	re	0.8	0.8	2.1	30.1	37	2,546	450	500
61	7	rm	0.8	0.8	2.1	31.3	38	2,640	460	500

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	12.1	12	10	14	0.19
8	12.1	12	10	14	0.19
10	12.1	12	9	12	0.19
12	12.1	12	9	12	0.19
14	12.1	12	8	10	0.19
16	12.1	12	8	10	0.19
19	12.1	12	7	9	0.19
21	12.1	12	7	9	0.19
24	12.1	12	6	8	0.19
30	12.1	12	6	8	0.19
40	12.1	12	5	7	0.19
50	12.1	12	5	7	0.19
61	12.1	12	4	6	0.19

Note : This is only general information. For other specific requirement, please contact our marketing.







Cu/PVC/SWA/PVC (NYRGbY) & Cu/PVC/SFA/PVC (NYFGbY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel wire
or flat steel wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA — **Control cable 2.5 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
7	1	re	0.8	0.9	1.8	12.6	19	684	230	1,000
7	7	rm	0.8	0.9	1.8	13.3	20	723	240	1,000
8	1	re	0.8	0.9	1.8	13.5	20	747	240	1,000
8	7	rm	0.8	0.9	1.8	14.4	21	794	260	1,000
10	1	re	0.8	0.9	1.8	16.0	22	891	270	1,000
10	7	rm	0.8	0.9	1.8	16.9	23	946	280	1,000
12	1	re	0.8	0.9	1.8	16.5	23	972	280	1,000
12	7	rm	0.8	0.9	1.8	17.5	24	1,033	290	1,000
14	1	re	0.8	1.6	1.8	17.4	25	1,356	320	1,000
14	7	rm	0.8	1.6	1.8	18.5	27	1,442	330	1,000
16	1	re	0.8	1.6	1.8	18.4	26	1,480	320	1,000
16	7	rm	0.8	1.6	1.8	19.5	28	1,572	340	1,000
19	1	re	0.8	1.6	1.8	19.4	28	1,616	340	1,000
19	7	rm	0.8	1.6	1.8	20.3	29	1,717	350	1,000
21	1	re	0.8	1.6	1.8	20.4	29	1,714	350	1,000
21	7	rm	0.8	1.6	1.8	21.7	30	1,838	360	500
24	1	re	0.8	1.6	1.9	22.8	31	1,950	380	500
24	7	rm	0.8	1.6	1.9	24.3	33	2,068	400	500
30	1	re	0.8	1.6	1.9	24.2	33	2,199	400	500
30	7	rm	0.8	1.6	1.9	25.8	34	2,350	410	500
40	1	re	0.8	2.0	2.1	27.3	37	2,916	450	500
40	7	rm	0.8	2.0	2.1	29.0	39	3,099	470	500
52	1	re	0.8	2.0	2.2	31.5	41	3,585	500	500
52	7	rm	0.8	2.0	2.2	33.5	43	3,831	520	500
61	1	re	0.8	2.0	2.3	33.5	43	4,008	520	500
61	7	rm	0.8	2.0	2.3	35.7	46	4,280	560	500
NYFGbY										
16	1	re	0.8	0.8	1.8	18.4	25	1,231	300	1,000
16	7	rm	0.8	0.8	1.8	19.5	26	1,316	320	1,000
19	1	re	0.8	0.8	1.8	19.4	26	1,360	320	1,000
19	7	rm	0.8	0.8	1.8	20.6	27	1,455	330	1,000
21	1	re	0.8	0.8	1.8	20.4	27	1,468	330	1,000
21	7	rm	0.8	0.8	1.8	21.7	28	1,544	340	1,000
24	1	re	0.8	0.8	1.8	22.8	29	1,633	350	1,000
24	7	rm	0.8	0.8	1.8	24.3	31	1,745	380	500
30	1	re	0.8	0.8	1.9	24.2	31	1,891	380	500
30	7	rm	0.8	0.8	1.9	25.8	33	2,019	400	500
40	1	re	0.8	0.8	2.0	27.3	34	2,326	410	500
40	7	rm	0.8	0.8	2.0	29.0	36	2,509	440	500
52	1	re	0.8	0.8	2.1	31.5	39	2,916	470	500
52	7	rm	0.8	0.8	2.1	33.5	41	3,137	500	500
61	1	re	0.8	0.8	2.2	33.5	41	3,315	500	500
61	7	rm	0.8	0.8	2.2	35.7	43	3,536	520	500

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	7.41	10	16	19	0.32
8	7.41	10	16	19	0.32
10	7.41	10	13	16	0.32
12	7.41	10	13	16	0.32
14	7.41	10	12	14	0.32
16	7.41	10	12	14	0.32
19	7.41	10	11	12	0.32
21	7.41	10	11	12	0.32
24	7.41	10	10	11	0.32
30	7.41	10	10	11	0.32
40	7.41	10	8	9	0.32
50	7.41	10	8	9	0.32
61	7.41	10	7	8	0.32

Note : This is only general information. For other specific requirement, please contact our marketing.







Cu/PVC/SWA/PVC (NYRGbY) & Cu/PVC/SFA/PVC (NYFGbY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, Galvanized round steel wire or flat steel wire armoured and PVC sheathed cable

Main Uses : used for indoor and outdoor installation direct burial, preferably used where considerable mechanical strees must be envisaged

DIMENSIONAL & MECHANICAL DATA — **Control cable 4 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness			0.9			Bending radius min	Standard delivery length
			Insulation	Galv.steel wire armour	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	mm	m
NYRGbY										
7	1	re	1.0	0.9	1.8	15.2	22	903	270	500
7	7	rm	1.0	0.9	1.8	16.2	23	962	280	500
8	1	re	1.0	1.6	1.8	16.5	25	1,287	300	500
8	7	rm	1.0	1.6	1.8	17.6	26	1,355	320	500
10	1	re	1.0	1.6	1.8	19.5	28	1,524	340	500
10	7	rm	1.0	1.6	1.8	20.8	29	1,621	350	500
12	1	re	1.0	1.6	1.8	20.2	28	1,654	340	500
12	7	rm	1.0	1.6	1.8	21.5	30	1,760	360	500
14	1	re	1.0	1.6	1.9	21.3	30	1,823	360	500
14	7	rm	1.0	1.6	1.9	22.7	31	1,939	380	500
16	1	re	1.0	1.6	1.9	22.6	31	1,998	380	500
16	7	rm	1.0	1.6	1.9	24.0	32	2,140	390	500
19	1	re	1.0	1.6	1.9	23.9	32	2,189	390	500
19	7	rm	1.0	1.6	1.9	25.4	34	2,345	410	500
21	1	re	1.0	1.6	2.0	25.2	34	2,373	410	500
21	7	rm	1.0	1.6	2.0	26.8	35	2,539	420	500
24	1	re	1.0	2.0	2.1	28.6	38	2,974	460	500
24	7	rm	1.0	2.0	2.1	30.4	40	3,162	480	500
30	1	re	1.0	2.0	2.2	30.4	40	3,386	480	500
0	7	rm	1.0	2.0	2.2	32.4	42	3,627	510	500
40	1	re	1.0	2.0	2.3	34.2	44	4,146	530	500
40	7	rm	1.0	2.0	2.3	36.5	46	4,435	560	500
52	1	re	1.0	2.5	2.5	39.4	51	5,537	620	500
52	7	rm	1.0	2.5	2.5	42.0	53	5,931	640	500
61	1	re	1.0	2.5	2.6	40.0	53	6,196	660	500
61	7	rm	1.0	2.5	2.6	44.7	56	6,633	680	500
NYFGbY										
10	1	re	1.0	0.8	1.8	19.5	26	1,269	320	500
10	7	rm	1.0	0.8	1.8	20.8	27	1,359	330	500
12	1	re	1.0	0.8	1.8	20.2	27	1,385	330	500
12	7	rm	1.0	0.8	1.8	21.5	28	1,481	340	500
14	1	re	1.0	0.8	1.8	21.3	28	1,530	340	500
14	7	rm	1.0	0.8	1.8	22.7	29	1,639	350	500
16	1	re	1.0	0.8	1.8	22.6	29	1,697	350	500
16	7	rm	1.0	0.8	1.8	24.0	31	1,816	380	500
19	1	re	1.0	0.8	1.9	23.9	30	1,897	380	500
19	7	rm	1.0	0.8	1.9	25.4	32	2,030	390	500
21	1	re	1.0	0.8	1.9	25.2	32	2,049	390	500
21	7	rm	1.0	0.8	1.9	26.8	34	2,192	410	500
24	1	re	1.0	0.8	2.0	28.6	35	2,359	420	500
24	7	rm	1.0	0.8	2.0	30.4	37	2,547	450	500
30	1	re	1.0	0.8	2.1	30.4	37	2,768	450	500
30	7	rm	1.0	0.8	2.1	32.4	39	2,959	470	500
40	1	re	1.0	0.8	2.2	34.2	41	3,427	500	500
40	7	rm	1.0	0.8	2.2	36.5	44	3,692	530	500
52	1	re	1.0	0.8	2.4	39.4	47	4,337	570	500
52	7	rm	1.0	0.8	2.4	42.0	50	4,663	600	500
61	1	re	1.0	0.8	2.5	40.0	50	4,929	600	500
61	7	rm	1.0	0.8	2.5	44.7	53	5,298	640	500

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
7	4.61	50	22	24	0.50
8	4.61	50	22	24	0.50
10	4.61	50	18	20	0.50
12	4.61	50	18	20	0.50
14	4.61	50	17	18	0.50
16	4.61	50	17	18	0.50
19	4.61	50	15	16	0.50
21	4.61	50	15	16	0.50
24	4.61	50	13	14	0.50
30	4.61	50	13	14	0.50
40	4.61	50	11	12	0.50
50	4.61	50	11	12	0.50
61	4.61	50	10	11	0.50

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

1 Core

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
1.5	1	re	0.8	0.1	1.8	10.0	9	110	110	1,000
1.5	7	rm	0.8	0.1	1.8	10.0	9	128	110	1,000
2.5	1	re	0.8	0.1	1.8	10.0	10	130	122	1,000
2.5	7	rm	0.8	0.1	1.8	10.0	10	135	122	1,000
4	1	re	1.0	0.1	1.8	10.0	10	165	122	1,000
4	7	rm	1.0	0.1	1.8	10.0	10	175	122	1,000
6	1	re	1.0	0.1	1.8	10.0	11	195	135	1,000
6	7	rm	1.0	0.1	1.8	10.0	11	206	135	1,000
10	1	re	1.0	0.1	1.8	10.0	12	262	150	1,000
10	7	rm	1.0	0.1	1.8	10.0	12	270	150	1,000
16	7	rm	1.0	0.1	1.8	10.0	13	325	160	1,000
25	7	rm	1.2	0.1	1.8	10.9	16	460	200	1,000
35	7	rm	1.2	0.1	1.8	12.0	17	605	210	1,000
50	19	rm	1.4	0.1	1.8	13.7	19	757	230	1,000
70	19	rm	1.4	0.1	1.8	15.5	20	993	240	1,000
95	19	rm	1.6	0.1	1.8	17.8	23	1,295	280	1,000
120	37	rm	1.6	0.1	1.8	19.4	24	1,552	290	1,000
150	37	rm	1.8	0.1	1.8	21.4	26	1,865	320	1,000
185	37	rm	2.0	0.1	1.8	23.5	28	2,262	340	1,000
240	61	rm	2.2	0.1	1.8	26.5	31	2,882	380	1,000
300	61	rm	2.4	0.1	1.9	29.3	34	3,533	410	1,000
400	61	rm	2.6	0.1	2.0	33.0	38	4,451	460	500
500	61	rm	2.8	0.1	2.1	36.6	42	5,554	510	500



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C				Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR		In GROUND		
			⁂	⊙⊙⊙	⁂	⊙⊙⊙	
mm²	Ω/Km	MΩ.Km	A		A		kA
1.5	12.1	12	-	16	-	33	0.19
2.5	7.41	10	-	25	-	44	0.32
4	4.61	10	-	45	-	57	0.50
6	3.08	8	-	57	-	73	0.73
10	1.83	6	-	79	-	97	1.20
16	1.15	4	85	99	97	106	1.91
25	0.727	4	118	134	124	137	2.96
35	0.524	3	143	168	149	163	4.13
50	0.387	3	178	203	176	194	5.87
70	0.268	3	223	257	216	238	8.19
95	0.193	3	277	317	260	286	11.09
120	0.153	3	327	371	295	326	13.98
150	0.124	3	376	426	335	370	17.46
185	0.0991	3	436	485	379	414	21.50
240	0.0754	3	525	584	432	476	27.86
300	0.0601	3	604	673	485	546	34.79
400	0.0470	3	733	817	573	626	51.50
500	0.0366	2	851	950	652	723	51.84

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

2 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
1.5	1	re	0.8	0.1	1.8	10.0	13	206	180	1,000
1.5	7	rm	0.8	0.1	1.8	10.0	13	210	180	1,000
2.5	1	re	0.8	0.1	1.8	10.0	13	250	180	1,000
2.5	7	rm	0.8	0.1	1.8	10.0	13	260	180	1,000
4	1	re	1.0	0.1	1.8	10.7	15	340	200	1,000
4	7	rm	1.0	0.1	1.8	11.3	15	355	200	1,000
6	1	re	1.0	0.1	1.8	11.7	17	437	210	1,000
6	7	rm	1.0	0.1	1.8	12.4	17	471	210	1,000
10	1	re	1.0	0.1	1.8	13.3	18	567	220	1,000
10	7	rm	1.0	0.1	1.8	14.2	19	614	230	1,000
16	7	rm	1.0	0.1	1.8	16.3	21	808	260	1,000
25	7	rm	1.2	0.1	1.8	19.7	25	1,142	300	1,000
35	7	rm	1.2	0.1	1.8	22.0	27	1,426	330	1,000
50	19	rm	1.4	0.1	1.8	25.4	30	1,830	360	1,000
70	19	rm	1.4	0.1	1.9	29.0	34	2,440	410	1,000
95	19	rm	1.6	0.1	2.0	33.9	39	3,285	470	1,000
120	37	rm	1.6	0.1	2.1	37.1	43	3,967	520	500
150	37	rm	1.8	0.1	2.2	41.0	47	4,819	570	500
185	37	rm	2.0	0.1	2.4	45.8	52	5,975	630	500
240	61	rm	2.2	0.1	2.6	51.8	58	7,674	700	500
300	61	rm	2.4	0.1	2.7	57.7	64	9,466	770	300



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	21	27	0.19
2.5	7.41	10	29	36	0.32
4	4.61	10	38	46	0.50
6	3.08	8	47	58	0.73
10	1.83	6	65	77	1.20
16	1.15	5	89	101	1.91
25	0.727	5	119	133	2.96
35	0.524	4	148	158	4.13
50	0.387	4	178	185	5.87
70	0.268	3	228	228	8.19
95	0.193	3	272	277	11.09
120	0.153	3	317	317	13.98
150	0.124	3	371	351	17.46
185	0.0991	3	426	405	21.50
240	0.0754	3	505	467	27.86
300	0.0601	3	584	520	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC NYSY 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

3 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
1.5	1	re	0.8	0.1	1.8	10.1	13	275	180	1,000
1.5	7	rm	0.8	0.1	1.8	10.1	13	280	180	1,000
2.5	1	re	0.8	0.1	1.8	10.1	14	338	180	1,000
2.5	7	rm	0.8	0.1	1.8	10.1	14	337	180	1,000
4	1	re	1.0	0.1	1.8	11.4	16	423	200	1,000
4	7	rm	1.0	0.1	1.8	12.1	17	454	210	1,000
6	1	re	1.0	0.1	1.8	12.5	17	509	210	1,000
6	7	rm	1.0	0.1	1.8	13.3	18	548	220	1,000
10	1	re	1.0	0.1	1.8	14.2	19	676	230	1,000
10	7	rm	1.0	0.1	1.8	15.2	20	729	240	1,000
16	7	rm	1.0	0.1	1.8	17.5	22	980	270	1,000
25	7	rm	1.2	0.1	1.8	21.2	26	1,405	320	1,000
35	7	rm	1.2	0.1	1.8	23.5	28	1,777	340	1,000
35	7	sm	1.2	0.1	1.8	20.7	26	1,490	320	1,000
50	19	sm	1.4	0.1	1.8	23.5	28	1,918	340	1,000
70	19	sm	1.4	0.1	1.9	26.9	32	2,620	390	1,000
95	19	sm	1.6	0.1	2.1	30.9	36	3,520	440	500
120	37	sm	1.6	0.1	2.2	33.4	39	4,280	470	500
150	37	sm	1.8	0.1	2.3	37.4	43	5,259	520	500
185	37	sm	2.0	0.1	2.5	41.2	47	6,478	570	500
240	37	sm	2.2	0.1	2.7	46.7	53	8,398	640	500
300	37	sm	2.4	0.1	2.9	51.6	59	10,377	710	300

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductormax	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	40	0.50
6	3.08	8	43	51	0.73
10	1.83	6	59	68	1.20
16	1.15	5	79	88	1.91
25	0.727	5	104	115	2.96
35	0.524	4	129	137	4.13
50	0.387	4	158	163	5.87
70	0.268	3	198	203	8.19
95	0.193	3	242	242	11.09
120	0.153	3	282	282	13.98
150	0.124	3	322	312	17.46
185	0.0991	3	366	351	21.50
240	0.0754	3	431	411	27.86
300	0.0601	3	495	460	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA 4 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
mm²	pcs	-	mm			mm		Kg/Km	mm	m
1.5	1	re	0.8	0.1	1.8	10.0	14	324	180	1,000
1.5	7	rm	0.8	0.1	1.8	10.0	15	321	180	1,000
2.5	1	re	0.8	0.1	1.8	10.4	15	363	180	1,000
2.5	7	rm	0.8	0.1	1.8	10.9	16	387	200	1,000
4	1	re	1.0	0.1	1.8	12.5	17	494	210	1,000
4	7	rm	1.0	0.1	1.8	13.3	18	539	220	1,000
6	1	re	1.0	0.1	1.8	13.7	19	601	230	1,000
6	7	rm	1.0	0.1	1.8	14.6	19	646	230	1,000
10	1	re	1.0	0.1	1.8	15.6	20	810	240	1,000
10	7	rm	1.0	0.1	1.8	16.7	22	872	270	1,000
16	7	rm	1.0	0.1	1.8	19.3	24	1,187	290	1,000
25	7	rm	1.2	0.1	1.8	23.4	28	1,719	340	1,000
35	7	rm	1.2	0.1	1.8	26.1	31	2,191	380	1,000
35	19	sm	1.2	0.1	1.8	24.0	29	1,960	350	1,000
50	19	sm	1.4	0.1	1.9	27.8	33	2,596	400	1,000
70	19	sm	1.4	0.1	2.1	31.2	37	3,498	450	1,000
95	19	sm	1.6	0.1	2.2	35.2	41	4,666	50	500
120	37	sm	1.6	0.1	2.3	39.0	45	5,741	540	500
150	37	sm	1.8	0.1	2.5	43.4	50	7,039	600	500
185	37	sm	2.0	0.1	2.7	47.6	54	8,697	650	500
240	37	sm	2.2	0.1	2.9	53.5	61	11,198	740	300
300	37	sm	2.4	0.1	3.1	58.9	66	13,834	800	300



ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
mm²	Ω/Km	MΩ.Km	A		kA
1.5	12.1	12	18	24	0.19
2.5	7.41	10	25	32	0.32
4	4.61	10	34	40	0.50
6	3.08	8	43	51	0.73
10	1.83	6	59	6	1.20
16	1.15	5	79	88	1.91
25	0.727	5	104	115	2.96
35	0.524	4	129	137	4.13
50	0.387	4	158	163	5.87
70	0.268	3	198	203	8.19
95	0.193	3	242	242	11.09
120	0.153	3	282	282	13.98
150	0.124	3	322	312	17.46
185	0.0991	3	366	351	21.50
240	0.0754	3	431	411	27.86
300	0.0601	3	495	460	34.79

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

Control cable 1.5 mm2

No of cores	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	mm	m
5	1	re	0.8	0.1	1.8	10.5	15	332	180	1,000
5	7	rm	0.8	0.1	1.8	10.9	16	343	200	1,000
6	1	re	0.8	0.1	1.8	11.4	16	379	200	1,000
5	7	rm	0.8	0.1	1.8	11.8	17	391	210	1,000
7	1	re	0.8	0.1	1.8	11.4	16	383	200	1,000
7	7	rm	0.8	0.1	1.8	11.8	17	396	210	1,000
8	1	re	0.8	0.1	1.8	12.4	17	422	210	1,000
8	7	rm	0.8	0.1	1.8	12.8	18	436	220	1,000
10	1	re	0.8	0.1	1.8	14.5	19	505	230	1,000
10	7	rm	0.8	0.1	1.8	15.0	20	523	240	1,000
12	1	re	0.8	0.1	1.8	14.9	20	557	240	1,000
12	7	rm	0.8	0.1	1.8	15.5	20	577	240	1,000
14	1	re	0.8	0.1	1.8	15.7	21	616	260	1,000
14	7	rm	0.8	0.1	1.8	16.3	21	637	260	1,000
16	1	re	0.8	0.1	1.8	16.6	21	685	260	1,000
16	7	rm	0.8	0.1	1.8	17.3	22	709	270	1,000
19	1	re	0.8	0.1	1.8	17.5	22	758	270	1,000
19	7	rm	0.8	0.1	1.8	18.2	23	785	280	1,000
21	1	re	0.8	0.1	1.8	18.4	23	819	280	1,000
21	7	rm	0.8	0.1	1.8	19.2	24	847	290	1,000
24	1	re	0.8	0.1	1.8	20.5	25	923	300	1,000
24	7	rm	0.8	0.1	1.8	21.4	26	956	320	1,000
30	1	re	0.8	0.1	1.8	21.8	27	1,077	330	1,000
30	7	rm	0.8	0.1	1.8	22.7	28	1,115	340	1,000
40	1	re	0.8	0.1	1.8	24.5	29	1,345	350	1,000
40	7	rm	0.8	0.1	1.8	25.5	30	1,392	360	1,000
52	1	re	0.8	0.1	1.9	28.3	33	1,725	400	500
52	7	rm	0.8	0.1	1.9	29.5	35	1,785	420	500
61	1	re	0.8	0.1	2.0	30.1	35	1,967	420	500
61	7	rm	0.8	0.1	2.0	31.3	37	2,035	450	500



ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
5	12.1	12	18	24	0.19
6	12.1	12	11	15	0.19
7	12.1	12	10	14	0.19
8	12.1	12	10	14	0.19
10	12.1	12	9	12	0.19
12	12.1	12	9	12	0.19
14	12.1	12	8	10	0.19
16	12.1	12	8	10	0.19
19	12.1	12	7	9	0.19
21	12.1	12	7	9	0.19
24	12.1	12	6	8	0.19
30	12.1	12	6	8	0.19
40	12.1	12	5	7	0.19
50	12.1	12	5	7	0.19
61	12.1	12	4	6	0.19

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA — **Control cable 2.5 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	mm	m
5	1	re	0.8	0.1	1.8	11.5	16	401	200	1,000
5	7	rm	0.8	0.1	1.8	12.2	17	425	210	1,000
6	1	re	0.8	0.1	1.8	12.6	17	459	210	1,000
5	7	rm	0.8	0.1	1.8	13.3	18	487	220	1,000
7	1	re	0.8	0.1	1.8	12.6	17	473	210	1,000
7	7	rm	0.8	0.1	1.8	13.3	18	504	220	1,000
8	1	re	0.8	0.1	1.8	13.6	18	524	220	1,000
8	7	rm	0.8	0.1	1.8	14.4	19	559	230	1,000
10	1	re	0.8	0.1	1.8	16.0	21	632	260	1,000
10	7	rm	0.8	0.1	1.8	16.9	22	674	270	1,000
12	1	re	0.8	0.1	1.8	16.5	21	705	260	1,000
12	7	rm	0.8	0.1	1.8	17.5	22	753	270	1,000
14	1	re	0.8	0.1	1.8	17.4	22	785	270	1,000
14	7	rm	0.8	0.1	1.8	18.5	23	839	280	1,000
16	1	re	0.8	0.1	1.8	18.4	23	876	280	1,000
16	7	rm	0.8	0.1	1.8	19.5	24	930	290	1,000
19	1	re	0.8	0.1	1.8	19.4	24	980	290	1,000
19	7	rm	0.8	0.1	1.8	20.6	25	1,049	300	1,000
21	1	re	0.8	0.1	1.8	20.4	25	1,062	300	1,000
21	7	rm	0.8	0.1	1.8	21.7	27	1,138	330	1,000
24	1	re	0.8	0.1	1.8	22.8	28	1,202	340	1,000
24	7	rm	0.8	0.1	1.8	24.3	29	1,287	350	1,000
30	1	re	0.8	0.1	1.8	24.2	29	1,417	350	1,000
30	7	rm	0.8	0.1	1.8	25.8	31	1,519	380	1,000
40	1	re	0.8	0.1	1.9	27.3	32	1,806	390	500
40	7	rm	0.8	0.1	1.9	29.0	34	1,938	410	500
52	1	re	0.8	0.1	2.0	31.5	37	2,311	450	500
52	7	rm	0.8	0.1	2.0	33.5	39	2,480	470	500
61	1	re	0.8	0.1	2.1	33.5	39	2,655	470	500
61	7	rm	0.8	0.1	2.1	35.7	41	2,849	500	500



ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
5	7.41	10	25	32	0.32
6	7.41	10	17	20	0.32
7	7.41	10	16	19	0.32
8	7.41	10	16	19	0.32
10	7.41	10	13	16	0.32
12	7.41	10	13	16	0.32
14	7.41	10	12	14	0.32
16	7.41	10	12	14	0.32
19	7.41	10	11	12	0.32
21	7.41	10	11	12	0.32
24	7.41	10	10	11	0.32
30	7.41	10	10	11	0.32
40	7.41	10	8	9	0.32
50	7.41	10	8	9	0.32
61	7.41	10	7	8	0.32

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CTS/PVC (NYSY) 0.6/1(1.2) kV

IEC 60502-1/ SNI IEC 60502-1

Copper conductor, PVC insulated, copper tape screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA — **Control cable 4 mm2**

No of cores	No of wire and conductor shape		Nominal Thickness			Approximately			Bending radius min	Standard delivery length
			Insulation	Copper Tape	Outer Sheath	Inner Sheath diameter	Overall Diameter	Net Weight		
pcs	pcs	-	mm			mm		Kg/Km	230	m
5	1	re	1.0	0.1	1.8	13.9	19	548	230	500
5	7	rm	1.0	0.1	1.8	14.8	20	585	240	500
6	1	re	1.0	0.1	1.8	15.2	20	633	240	500
5	7	rm	1.0	0.1	1.8	16.2	21	675	280	500
7	1	re	1.0	0.1	1.8	15.2	20	656	340	500
7	7	rm	1.0	0.1	1.8	16.2	21	702	260	500
8	1	re	1.0	0.1	1.8	16.5	21	731	260	500
8	7	rm	1.0	0.1	1.8	17.6	22	783	270	500
10	1	re	1.0	0.1	1.8	19.5	24	888	290	500
10	7	rm	1.0	0.1	1.8	20.8	26	953	320	500
12	1	re	1.0	0.1	1.8	20.2	25	1,002	300	500
12	7	rm	1.0	0.1	1.8	21.5	26	1,078	320	500
14	1	re	1.0	0.1	1.8	21.3	26	1,124	320	500
14	7	rm	1.0	0.1	1.8	22.7	28	1,207	340	500
16	1	re	1.0	0.1	1.8	22.6	27	1,266	330	500
16	7	rm	1.0	0.1	1.8	24.0	29	1,359	350	500
19	1	re	1.0	0.1	1.8	23.9	29	1,424	350	500
19	7	rm	1.0	0.1	1.8	25.4	30	1,531	360	500
21	1	re	1.0	0.1	1.8	25.2	30	1,549	360	500
21	7	rm	1.0	0.1	1.8	26.8	32	1,666	390	500
24	1	re	1.0	0.1	1.9	28.6	24	1,814	410	500
24	7	rm	1.0	0.1	1.9	30.4	26	1,950	440	500
30	1	re	1.0	0.1	2.0	30.4	26	2,163	440	500
30	7	rm	1.0	0.1	2.0	32.4	28	2,327	460	500
40	1	re	1.0	0.1	2.1	34.2	40	2,767	480	500
40	7	rm	1.0	0.1	2.1	36.5	42	2,979	510	500
52	1	re	1.0	0.1	2.3	39.4	15	3,571	540	500
52	7	rm	1.0	0.1	2.3	42.0	48	3,846	580	500
61	1	re	1.0	0.1	2.4	41.9	48	4,108	580	500
61	7	rm	1.0	0.1	2.4	44.7	51	4,425	620	500



ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
5	3.08	8	43	51	0.50
6	3.08	8	29	32	0.50
7	3.08	8	28	31	0.50
8	3.08	8	28	31	0.50
10	3.08	8	24	26	0.50
12	3.08	8	24	26	0.50
14	3.08	8	22	23	0.50
16	3.08	8	22	213	0.50
19	3.08	8	19	20	0.50
21	3.08	8	19	20	0.50
24	3.08	8	17	18	0.50
30	3.08	8	17	18	0.50
40	3.08	8	15	16	0.50
50	3.08	8	15	16	0.50
61	3.08	8	13	14	0.50

Note : This is only general information. For other specific requirement, please contact our marketing.



Cu/PVC/CWS/PVC (NYCY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, copper wire screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

1 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Cross sectional area of screen	Approximately		Bending radius min	Standard delivery length
			Insulation	Outer Sheath		Overall Diameter	Net Weight		
mm²	pcs	-	mm	mm	mm²	mm	Kg/Km	mm	m
16	7	rm	1,0	1,8	16	16	491	210	1000
25	7	rm	1,2	1,8	16	18	613	240	1000
35	7	rm	1,2	1,8	16	19	720	260	1000
50	19	rm	1,4	1,8	25	20	956	300	1000
70	19	rm	1,4	1,8	35	23	1258	340	1000
95	19	rm	1,6	1,8	50	26	1710	390	1000
120	37	rm	1,6	1,8	70	28	2159	420	1000
150	37	rm	1,8	1,8	70	31	2458	460	1000
185	37	rm	2,0	1,8	95	32	3057	490	1000
240	61	rm	2,2	1,9	120	36	3934	560	1000
300	61	rm	2,4	2,0	150	40	4858	620	500
400	61	rm	2,6	2,1	185	43	6045	690	500
500	61	rm	2,8	2,3	240	48	7680	770	500

ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C				Short circuit current of conductor at 1.0 sec
	DC conductor max.	Insulation min (Calculated)	In AIR		In GROUND		
			⁂	⁂	⁂	⁂	
mm²	Ω/Km	MΩ.Km	A		A		kA
16	1,15	4	85	99	97	106	1,91
25	0,727	4	118	134	124	137	2,96
35	0,524	3	143	168	149	163	4,13
50	0,387	3	178	203	176	194	5,87
70	0,268	3	223	257	216	238	8,19
95	0,193	3	277	317	260	286	11,09
120	0,153	3	327	371	295	326	13,98
150	0,124	3	376	426	335	370	17,46
185	0,0991	3	436	485	379	414	21,50
240	0,0754	3	525	584	432	476	27,86
300	0,0601	3	604	673	485	546	34,79
400	0,0470	3	733	817	573	626	41,50
500	0,0366	3	851	950	652	723	51,84

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/CWS/PVC (NYCY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, copper wire screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

2 Cores

DIMENSIONAL & MECHANICAL DATA

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Cross sectional area of screen	Approximately		Bending radius min	Standard delivery length
			Insulation	Outer Sheath		Overall Diameter	Net Weight		
mm²	pcs	-	mm	mm	mm²	mm	Kg/Km	mm	m
1,5	7	rm	0,8	1,8	1,5	14	235	120	1000
2,5	7	rm	0,8	1,8	2,5	15	290	130	1000
4	7	rm	1,0	1,8	4	17	402	150	1000
6	7	rm	1,0	1,8	6	19	492	160	1000
10	7	rm	1,0	1,8	10	20	653	180	1000
16	7	rm	1,0	1,8	16	23	893	210	1000
25	7	rm	1,2	1,8	16	26	1201	250	1000
35	7	rm	1,2	1,8	16	28	1461	270	1000
50	19	rm	1,4	1,8	25	32	1915	310	1000
70	19	rm	1,4	1,9	35	36	2587	350	1000
95	19	rm	1,6	2,1	50	42	3565	410	1000
120	37	rm	1,6	2,2	70	46	4426	450	500
150	37	rm	1,8	2,3	70	50	5223	490	500
185	37	rm	2,0	2,5	95	56	6552	550	500
240	61	rm	2,2	2,7	120	62	8404	620	500
300	61	rm	2,4	2,9	150	69	10429	690	300

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max.	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
1,5	12,1	12	21	27	0,19
2,5	7,41	10	29	36	0,32
4	4,61	10	38	46	0,50
6	3,08	8	47	58	0,73
10	1,83	6	65	77	1,20
16	1,15	5	89	101	1,91
25	0,727	5	119	133	2,96
35	0,524	4	148	158	4,13
50	0,387	4	178	185	5,87
70	0,268	3	228	228	8,19
95	0,193	3	272	277	11,09
120	0,153	3	317	317	13,98
150	0,124	3	371	351	17,46
185	0,0991	3	426	405	21,50
240	0,0754	3	505	467	27,86
300	0,0601	3	584	520	34,79

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/CWS/PVC (NYCY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, copper wire screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

3 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Cross sectional area of screen	Approximately		Bending radius min	Standard delivery length
			Insulation	Outer Sheath		Overall Diameter	Net Weight		
mm²	pcs	-	mm	mm	mm²	mm	Kg/Km	mm	m
1,5	7	rm	0,8	1,8	1,5	15	299	120	1000
2,5	7	rm	0,8	1,8	2,5	15	331	130	1000
4	7	rm	1,0	1,8	4	17	452	150	1000
6	7	rm	1,0	1,8	6	19	561	170	1000
10	7	rm	1,0	1,8	10	21	767	190	1000
16	7	rm	1,0	1,8	16	24	1061	220	1000
25	7	rm	1,2	1,8	16	27	1453	250	1000
35	7	rm	1,2	1,8	16	30	1806	280	1000
50	19	rm	1,4	1,9	25	30	2074	280	1000
70	19	rm	1,4	2,0	35	35	2850	320	1000
95	19	rm	1,6	2,2	50	39	3914	370	1000
120	37	rm	1,6	2,3	70	42	4840	400	500
150	37	rm	1,8	2,4	70	47	5802	440	500
185	37	rm	2,0	2,6	95	51	7226	490	500
240	61	rm	2,2	2,8	120	58	9374	550	300
300	61	rm	2,4	3,0	150	63	11576	610	300

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max.	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
1,5	12,1	12	18	24	0,19
2,5	7,41	10	25	32	0,32
4	4,61	10	34	40	0,50
6	3,08	8	43	51	0,73
10	1,83	6	59	68	1,20
16	1,15	5	79	88	1,91
25	0,727	5	104	115	2,96
35	0,524	4	129	137	4,13
50	0,387	4	158	163	5,87
70	0,268	3	198	203	8,19
95	0,193	3	242	242	11,09
120	0,153	3	282	282	13,98
150	0,124	3	322	312	17,46
185	0,0991	3	366	351	21,50
240	0,0754	3	431	411	27,86
300	0,0601	3	495	460	34,79

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/CWS/PVC (NYCY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, copper wire screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

4 Cores

Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Cross sectional area of screen	Approximately		Bending radius min	Standard delivery length
			Insulation	Outer Sheath		Overall Diameter	Net Weight		
mm²	pcs	-	mm	mm	mm²	mm	Kg/Km	mm	m
1,5	7	rm	0,8	1,8	1,5	15	306	120	1000
2,5	7	rm	0,8	1,8	2,5	16	375	140	1000
4	7	rm	1,0	1,8	4	19	524	160	1000
6	7	rm	1,0	1,8	6	20	655	180	1000
10	7	rm	1,0	1,8	10	23	905	200	1000
16	7	rm	1,0	1,8	16	26	1258	230	1000
25	7	rm	1,2	1,8	16	29	1754	270	1000
35	7	rm	1,2	1,8	16	32	2203	300	1000
50	19	rm	1,4	2,0	25	35	2721	320	1000
70	19	rm	1,4	2,1	35	38	3722	360	1000
95	19	rm	1,6	2,3	50	44	5022	410	500
120	37	rm	1,6	2,4	70	48	6276	460	500
150	37	rm	1,8	2,6	70	53	7633	510	500
185	37	rm	2,0	2,8	95	58	9413	550	300
240	61	rm	2,2	3,0	120	66	12180	630	300
300	61	rm	2,4	3,2	150	74	15180	720	300

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max.	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
1,5	12,1	12	18	24	0,19
2,5	7,41	10	25	32	0,32
4	4,61	10	34	40	0,50
6	3,08	8	43	51	0,73
10	1,83	6	59	68	1,20
16	1,15	5	79	88	1,91
25	0,727	5	104	115	2,96
35	0,524	4	129	137	4,13
50	0,387	4	158	163	5,87
70	0,268	3	198	203	8,19
95	0,193	3	242	242	11,09
120	0,153	3	282	282	13,98
150	0,124	3	322	312	17,46
185	0,0991	3	366	351	21,50
240	0,0754	3	431	411	27,86
300	0,0601	3	495	460	34,79

Note : This is only general information. For other specific requirement, please contact our marketing.





Cu/PVC/CWS/PVC (NYCY) 0.6/1(1.2) kV

IEC 60502-1 / SNI IEC 60502-1

Copper conductor, PVC insulated, copper wire screened and PVC sheathed cable

Main Uses : used for indoor, in ducts installation for laying in the ground, where not sustain mechanical damage and need for electrical screen

DIMENSIONAL & MECHANICAL DATA

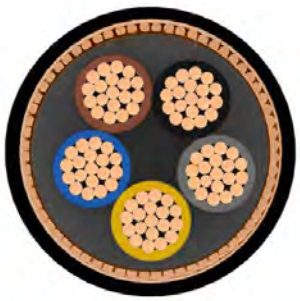
5 Cores

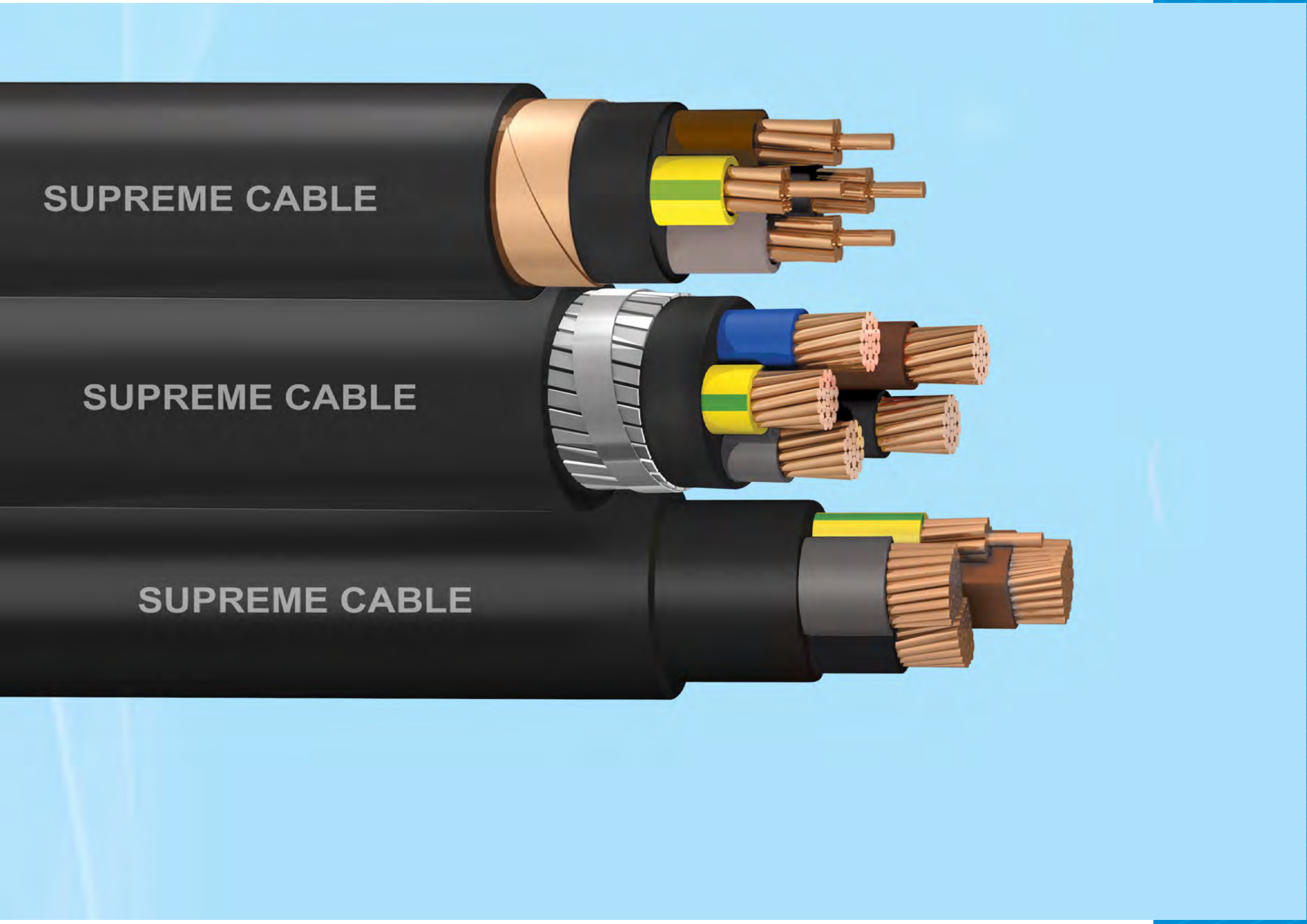
Nominal cross-sectional area	No of wire and conductor shape		Nominal Thickness		Cross sectional area of screen	Approximately		Bending radius min	Standard delivery length
			Insulation	Outer Sheath		Overall Diameter	Net Weight		
mm²	pcs	-	mm	mm	mm²	mm	Kg/Km	mm	m
1,5	7	rm	0,8	1,8	1,5	16	352	130	1000
2,5	7	rm	0,8	1,8	2,5	17	433	140	1000
4	7	rm	1,0	1,8	4	20	613	170	1000
6	7	rm	1,0	1,8	6	22	766	190	1000
10	7	rm	1,0	1,8	10	24	1068	210	1000
16	7	rm	1,0	1,8	16	27	1478	240	1000
25	7	rm	1,2	1,8	16	32	2109	290	1000
35	7	rm	1,2	1,8	16	35	3699	320	1000
50	19	rm	1,4	2,0	25	41	3625	370	1000

ELECTRICAL DATA

No of cores	Resistance at 20 °C		Current Carrying Capacity at 30 °C		Short circuit current of conductor at 1.0 sec
	DC conductor max.	Insulation min (Calculated)	In AIR	In GROUND	
pcs	Ω/Km	MΩ.Km	A		kA
1,5	12,1	12	18	24	0,19
2,5	7,41	10	25	32	0,32
4	4,61	10	34	40	0,50
6	3,08	8	43	51	0,73
10	1,83	6	59	68	1,20
16	1,15	5	79	88	1,91
25	0,727	5	104	115	2,96
35	0,524	4	129	137	4,13
50	0,387	4	158	163	5,87

Note : This is only general information. For other specific requirement, please contact our marketing.



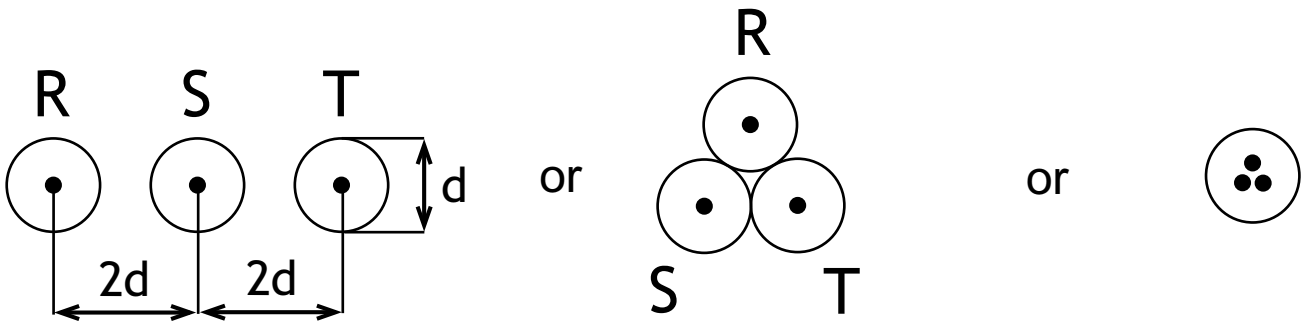

SUPREME CABLE
SUPREME CABLE
SUPREME CABLE

Installation Guide & Derating Factors

Conditions for current carrying capacity

The tabulated current ratings are designed by the conditions as below :

- One circuit of three phase load.



- Load factor = 1.0
- Maximum operating conductor temperature :

  70°C (PVC insulation) and 90°C (XLPE insulation)
  No other heat sources installed near the group of cables.
- Cable laying :

in air :

- Ambient temperature : 30°C
- The cable have to protected against heat radiation of the sun as well as sufficiently large and ventilated rooms whose temperature is not perceptibly increased by the heat dissipating from the loaded cable.

in ground :

- Soil temperature : 30°C
- Depth of laying : 70 cm
- Specific thermal resistivity of soil :100°C.cm/Watt

NOTE :

If the actual installed conditions are different from the above mentioned condition, the tabulated current ratings should be multiplied by the appropriate derating factors as shown in tables on the next pages.

DERATING FACTORS

A. Grouping in the ground.

1 Variation in ground temperature.

	Ground temperatures (°C)						
	20	25	30	35	40	45	50
XLPE insulation	1.08	1.04	1.00	0.96	0.91	0.87	0.82
PVC insulation	1.12	1.07	1.00	0.94	0.87	0.79	0.71

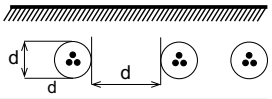
2 Variation in thermal resistivity of soil.

	Thermal resistivity of soil (°C.cm/watt)			
	70	100	150	250
XLPE insulation	1.12	1.0	0.87	0.78
PVC insulation	1.11	1.0	0.82	0.70

3 Variation in depth of laying.

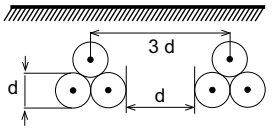
	Depth of laying (cm)					
	50	70	100	120	160	200
XLPE insulation	1.02	1.00	0.98	0.97	0.95	0.94
PVC insulation	1.01	1.00	0.99	0.98	0.97	0.96

4 **GROUPING** of **multicore** cables.



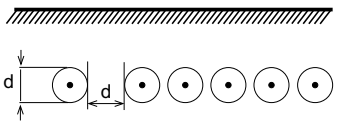
	Number 0f grouping							
	1	2	3	4	5	6	8	10
XLPE insulation	1.00	0.86	0.76	0.71	0.67	0.64	0.60	0.57
PVC insulation	1.00	0.85	0.75	0.68	0.64	0.60	0.56	0.53

5 **GROUPING** of **single core** cables (**Trefoil** formation)



	Number 0f grouping							
	1	2	3	4	5	6	8	10
XLPE insulation	1.00	0.89	0.82	0.78	0.75	0.73	0.70	0.68
PVC insulation	1.00	0.90	0.82	0.79	0.76	0.74	0.71	0.69

6 **GROUPING** of **single core** cables (**Flat** formation)



	Number 0f grouping							
	1	2	3	4	5	6	8	10
XLPE insulation	1.00	0.87	0.77	0.73	0.70	0.68	0.65	0.63
PVC insulation	1.00	0.87	0.78	0.74	0.70	0.68	0.65	0.63

B. Grouping in air.

1 Variation in air temperature.

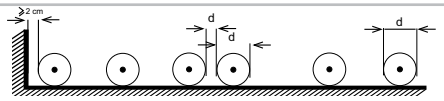
	Air temperatures (°C)							
	20	25	30	35	40	45	50	55
XLPE insulation	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76
PVC insulation	1.12	1.07	1.00	0.93	0.87	0.79	0.71	0.61

2 Single core cables in three phase system.

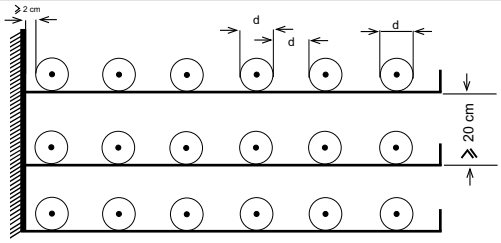
2.1 Flat formation.

Minimum distance from the wall is 2.0 cm. Clearance between systems = Cable diameter (d)	Number of system		
	1	2	3

2.1.1 Laid on the ground in flat formation.

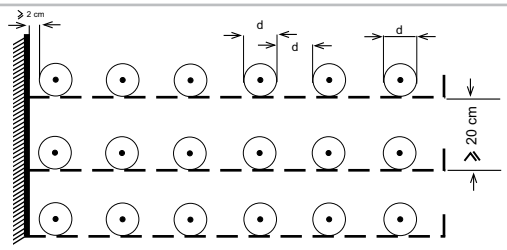
	Derating factor		
	0.92	0.89	0.88

2.1.2 Laid on troughs (air circulation is restricted)



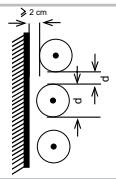
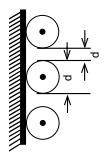
Number of troughs	Derating factor		
1	0.92	0.89	0.88
2	0.87	0.84	0.83
3	0.84	0.82	0.81
6	0.82	0.80	0.79

2.1.3 Laid on the racks in flat formation.



Number of racks	Derating factor		
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

2.1.4 Arranged on structures or on the wall.

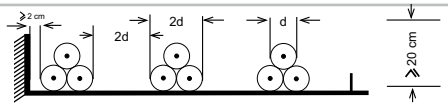
		Derating factor		
		0.94	0.91	0.89
	Touching the wall.	0.89	0.86	0.84

B. Grouping in air (continued)

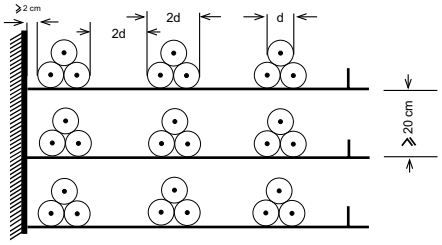
2.2 Trefoil formation.

Minimum distance from the wall is 2.0 cm. Clearance between systems = 2 x Cable diameter (2 d)	Number of system		
	1	2	3

2.2.1 Laid on the ground in trefoil formation.

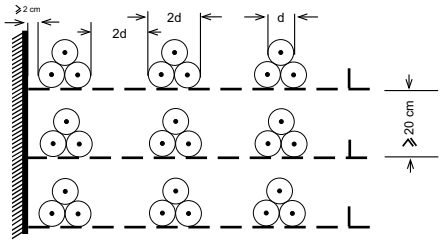
	Derating factor		
	0.95	0.90	0.88

2.2.2 Laid on troughs (air circulation is restricted)



Number of troughs	Derating factor		
1	0.95	0.90	0.88
2	0.90	8.85	0.83
3	0.88	0.83	0.81
6	0.86	0.81	0.79

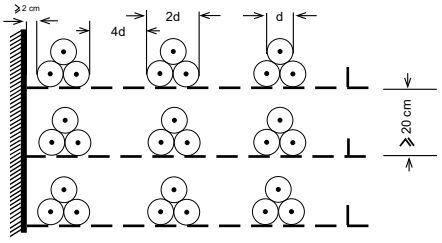
2.2.3 Laid on the racks in trefoil formation.



Number of racks	Derating factor		
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

2.2.4 Arrangement for which a reduction of the current rating is not necessary (for any number of systems)

- Minimum distance from the wall is 2.0 cm.
- Clearance between cables = 4 x cable diameter (4d).



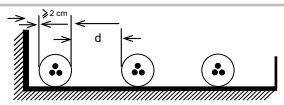
B. Grouping in air (continued).

3 Multicore cables in three phase system and single core cables in DC system.

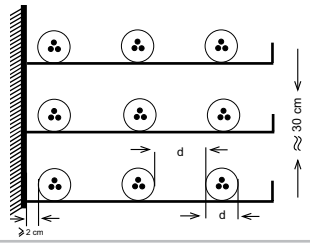
3.1 Minimum distance from the wall is 2.0 cm.
Clearance between cables = Cable diameter (d)

Number of system				
1	2	3	6	9

3.1.1 Laid on the ground in flat formation.

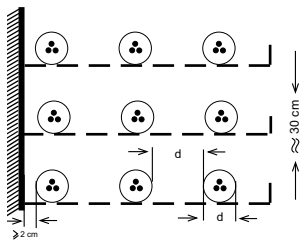
	Derating factor				
	0.95	0.90	0.88	0.85	0.84

3.1.2 Laid on troughs (air circulation is restricted)



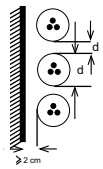
Number of troughs	Derating factor				
1	0.95	0.90	0.88	0.85	0.84
2	0.90	0.85	0.83	0.81	0.80
3	0.88	0.83	0.81	0.79	0.78
6	0.86	0.81	0.79	0.77	0.76

3.1.3 Laid on the racks in flat formation.



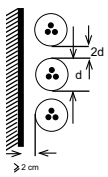
Number of troughs	Derating factor				
1	1.00	0.98	0.96	0.93	0.92
2	1.00	0.95	0.93	0.90	0.89
3	1.00	0.94	0.92	0.89	0.88
6	1.00	0.93	0.90	0.87	0.86

3.1.4 Arranged on structures or on the wall.

	Derating factor				
	1.00	0.93	0.90	0.87	0.86

3.1.5 Arrangement for which a reduction of the current rating is not necessary (for any number of cables)

- Minimum distance from the wall is 2.0 cm.
- Clearance between cables = 2 x cable diameter (2d).

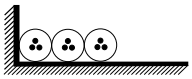


B. Grouping in air (continued).

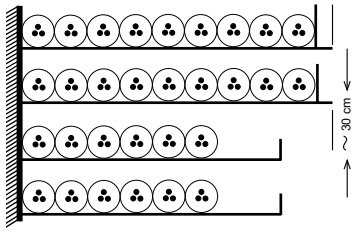
3.2 Cables touching throughout and in contact with the wall.

Number of system				
1	2	3	6	9

3.2.1 Laid on the ground in flat formation.

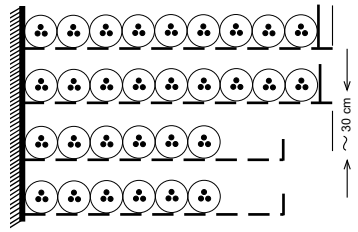
	Derating factor				
	0.90	0.84	0.80	0.75	0.73

3.2.2 Laid on troughs (air circulation is restricted)



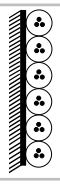
Number of troughs	Derating factor				
1	0.95	0.84	0.80	0.75	0.73
2	0.95	0.80	0.76	0.71	0.69
3	0.95	0.78	0.74	0.70	0.68
6	0.95	0.76	0.72	0.68	0.66

3.2.3 Laid on the racks in flat formation.



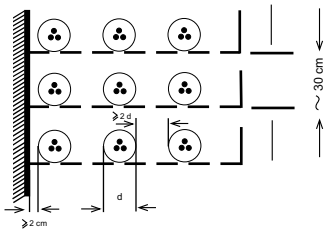
Number of troughs	Derating factor				
1	0.95	0.84	0.80	0.75	0.73
2	0.95	0.80	0.76	0.71	0.69
3	0.95	0.78	0.74	0.70	0.68
6	0.95	0.76	0.72	0.68	0.66

3.2.4 Arranged on structures or on the wall.

	Derating factor				
	0.95	0.78	0.73	0.68	0.66

3.2.5 Arrangement for which a reduction of the current rating is not necessary (for any number of cables)

- Minimum distance from the wall is 2.0 cm.
- Clearance between cables = 2 x cable diameter (2d).



CONVERSION TABLE

Nominal cross sectional area			Wire gauge			
mm^2	Inc^2	Circular Mils (CM)	Equivalent Metric CSA	AWG	BWG	SWG
	0.0005	644	0.325	22	-	-
	0.0006	487	0.397	-	22	22
	0.0006	821	0.416	21	-	-
0.50	0.0008	987	-	-	-	-
	0.0008	1,021	0.517	20	-	-
	0.0008	1,025	0.519	-	21	21
	0.0009	1,198	0.607	-	20	-
	0.0010	1,289	0.653	19	-	-
	0.0010	1,297	0.657	-	-	20
	0.0013	1,601	0.811	-	-	19
0.75	0.0012	1,481	-	-	-	-
	0.0013	1,625	0.823	18	-	-
	0.0014	1,765	0.894	-	19	-
1.0	0.0016	1,974	-	-	-	-
	0.0016	2,053	1.040	17	-	-
	0.0016	2,304	1.167	-	-	18
	0.0019	2,402	1.217	-	18	-
	0.0020	2,584	1.309	16	-	-
1.5	0.0023	2,961	-	-	-	-
	0.0025	3,137	1.589	-	-	17
	0.0026	3,257	1.650	15	-	-
	0.0026	3,366	1.705	-	17	-
	0.0032	4,096	2.075	-	-	16
	0.0032	4,108	2.081	14	-	-
	0.0033	4,226	2.141	-	16	-
2.5	0.0039	4,935	-	-	-	-
	0.0040	5,180	2.624	13	-	-
	0.0040	5,186	2.627	-	15	15
	0.0050	6,402	3.243	-	-	14
	0.0051	6,532	3.309	12	-	-
	0.0054	6,891	3.491	-	14	-
4	0.0062	7,896	-	-	-	-
	0.0065	8,236	4.172	11	-	-
	0.0066	8,466	4.269	-	-	13
	0.0071	9,072	4.573	-	13	-
	0.0082	10,387	5.262	10	-	-
	0.0085	10,819	5.481	-	-	12
	0.0093	11,883	6.020	-	12	-
6	0.0093	11,844	-	-	-	-
	0.0103	13,092	6.632	9	-	-
	0.0106	13,459	6.816	-	-	11
	0.0113	14,404	7.297	-	11	-
	0.0129	16,388	8.302	-	-	10
	0.0130	16,518	8.368	8	-	-
	0.0141	17,959	9.098	-	10	-
10	0.0155	19,740	-	-	-	-
	0.0163	20,766	10.520	-	-	9
	0.0164	20,826	10.550	7	-	-
	0.0172	21,911	11.100	-	9	-
	0.0201	25,603	12.970	-	-	8
	0.0206	26,254	13.300	6	-	-
	0.0214	27,241	13.800	-	8	-
	0.0243	30,992	15.700	-	-	7
16	0.0248	31,584	-	-	-	-
	0.0255	32,413	16.420	-	7	-
	0.0260	33,104	16.770	5	-	-

Nominal cross sectional area			Wire gauge			
mm^2	Inc^2	Circular Mils (CM)	Equivalent Metric CSA	AWG	BWG	SWG
	0.0290	36,874	18.68	-	-	6
	0.0324	41,217	20.88	-	6	-
	0.0326	41,750	21.15	4	-	-
	0.0353	44,948	22.77	-	-	5
	0.0380	48,402	24.52	-	5	-
25	0.0388	49,350	-	-	-	-
	0.0413	52,627	26.66	3	-	-
	0.0423	53,831	27.27	-	-	4
	0.0445	56,654	28.70	-	4	-
	0.0499	63,523	32.18	-	-	3
	0.0521	66,386	33.63	2	-	-
	0.0527	67,096	33.99	-	3	-
35	0.0543	69,090	-	-	-	-
	0.0598	76,196	28.60	-	-	2
	0.0633	80,677	40.87	-	2	-
	0.0657	83,717	42.41	1	-	-
	0.0707	90,014	45.60	-	1	1
50	0.0775	98,700	-	-	-	-
	0.0824	404,997	53.19	-	-	1/0
	0.0829	105,589	53.49	1/0	-	-
	0.0908	115,637	58.58	-	1/0	-
	0.0951	121,125	61.36	-	-	2/0
	0.1045	133,087	67.42	2/0	-	-
70	0.1085	138,180	-	-	-	-
	0.1087	138,417	70.12	-	-	3/
	0.1134	144,438	73.17	-	2/	-
	0.1257	160,032	81.07	-	-	4/0
	0.1318	167,849	85.03	3/0	-	-
	0.1419	180,660	91.52	-	3/0	-
	0.1466	186,661	94.56	-	-	5/0
95	0.1473	187,530	-	-	-	-
	0.1616	206,086	104.40	-	4/0	-
	0.1691	211,613	107.20	4/0	-	-
	0.1860	215,363	109.10	-	-	6/0
120	0.1860	236,880	-	-	-	-
	0.1963	249,987	126.64	-	-	-
	0.1964	250,106	126.70	-	5/0	7/0
	0.2091	266,332	134.92	5/0	-	-
150	0.2325	296,100	-	-	-	-
	0.2356	300,048	152.00	-	-	-
	0.2642	336,488	170.46	6/0	-	-
185	0.2868	365,190	-	-	-	-
	0.3142	400,150	202.71	-	-	-
240	0.3720	473,760	-	-	-	-
	0.3927	500,113	253.35	-	-	-
300	0.4650	592,200	-	-	-	-
	0.4712	600,096	304.00	-	-	-
	0.5498	700,198	354.71	-	-	-
400	0.6200	789,600	-	-	-	-
	0.6283	800,161	405.35	-	-	-
500	0.7750	987,000		-	-	-
	0.7854	1,000,246	506.71	-	-	-
625	0.9688	1,233,750	-	-	-	-
630	0.9765	1,243,620	-	-	-	-
800	1.2400	1,597,200	-	-	-	-
1,000	1.5500	1,974,000	-	-	-	-

Note : • AWG = American Wire Gauge • BWG = Birmingham Wire Gauge • SWG = British Standard Wire Gauge