

MasterTec®

Wire & Cable

Strive to power up everyone's life

Low Voltage Power Cable

Aluminium Conductor



www.mastertec-wirecable.com





COMPANY INTRODUCTION

MASTER TEC WIRE & CABLE

Founded in 2005, with a decade of wires and cables manufacturing experience. Our current factory located at Rembia Industrial Park, Alor Gajah Melaka. Currently we have 4 manufacturing plants in Melaka. We principally involved in the manufacturing and distribution of power cables, control cables, instrumentation cables, trading of power cables, fibre optic cables, and other related products.

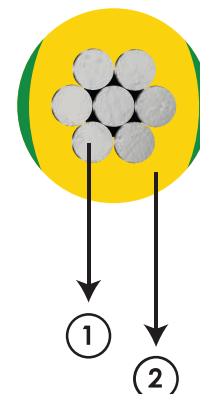
We have extensive experience in wires & cables since 2006. We have established a reputable MASTER TEC brand and track record for our LV power cables, control cables and instrumentation cables. Through our brand, customers recognise our products and they have given the assurance and confidence of our product's quality, performance, safety and durability.

CABLE TYPE	CORE	VOLTAGE (KV)	STANDARD	PAGE
AL / PVC (NAYA)	1 CORE	600 / 1000	IEC 60502-1	1
AL / PVC / PVC (NAYY)	1 CORE	600 / 1000	IEC 60502-1, MS 2100	2
AL / PVC / PVC (NAYY)	2 CORES ~ 4 CORES	600 / 1000	IEC 60502-1, MS 2102	3 - 5
AL / PVC / PVC / AWA / PVC (NAYRY)	1 CORE	600 / 1000	IEC 60502-1, MS 2101	6
AL / PVC / PVC / SWA / PVC (NAYRY)	2 CORES ~ 4 CORES	600 / 1000	IEC 60502-1, MS 2103	7 - 9
AL / XLPE / PVC (NA2XY)	1 CORE	600 / 1000	IEC 60502-1	10
AL / XLPE / PVC (NA2XY)	2 CORES ~ 4 CORES	600 / 1000	IEC 60502-1	11-13
AL / XLPE / PVC / AWA / PVC (NA2XRY)	1 CORE	600 / 1000	IEC 60502-1	14
AL / XLPE / PVC / SWA / PVC (NA2XRY)	2 CORES ~ 4 CORES	600 / 1000	IEC 60502-1	15 - 17
Technical Data				18 - 25
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*DISCLAIMER

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AL / PVC - 600 / 1000 VOLT (NAYA)		IEC 60502-1
1-CORE : ALUMINIUM CONDUCTOR AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - PVC Insulated
Voltage Rating : 600 / 1000 Volt	Insulation Colour : Black / Red / Brown / Grey / Blue / Green / Green with double Yellow line	
Specification : IEC 60502-1		
Conductor Operating Temperature : 70°C		

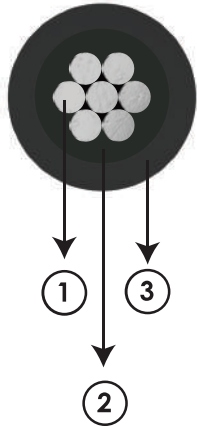


DIMENSIONAL & MECHANICAL DATA							
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation	Approximately		Bending Radius Min	Standard Delivery Length
				Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	kg/km	mm	m
16	7	compacted	1.0	6.8	73	54.4	1,000
25	7	compacted	1.2	8.4	111	67.2	1,000
35	7	compacted	1.2	9.5	141	76	1,000
50	7	compacted	1.4	11.0	190	88	1,000
70	12	compacted	1.4	12.5	255	100	1,000
95	15	compacted	1.6	14.8	350	118.4	1,000
120	15	compacted	1.6	15.9	423	127.2	1,000
150	15	compacted	1.8	17.8	522	142.4	1,000
185	30	compacted	2.0	20.2	658	161.6	1,000
240	30	compacted	2.2	22.7	852	181.6	1,000
300	30	compacted	2.4	25.2	1052	201.6	1,000
400	53	compacted	2.6	28.2	1336	225.6	1,000
500	53	compacted	2.8	31.7	1692	254	1,000



ELECTRICAL DATA							
Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity	Voltage Drop			
	DC Conductor Max	Insulation Min (calculated)		Single-Phase (cable spaced*)	Single-Phase (cable touching)	Three-Phase (cable spaced*, flat)	Three-Phase (cable touching, trefoil)
mm ²	Ω/km	MΩ.km	A	mV/A/m			
16	1.910	5.833	73	4.5	4.5	3.9	3.9
25	1.200	5.407	97	2.9	2.9	2.5	2.5
35	0.868	4.838	120	2.1	2.1	1.8	1.8
50	0.641	4.898	128	1.55	1.55	1.4	1.35
70	0.443	4.158	166	1.1	1.05	0.96	0.92
95	0.320	3.970	203	0.82	0.79	0.74	0.69
120	0.253	3.611	237	0.67	0.64	0.61	0.55
150	0.206	3.631	274	0.55	0.52	0.52	0.45
185	0.164	3.596	316	0.47	0.43	0.46	0.37
240	0.125	3.541	375	0.4	0.35	0.4	0.3
300	0.100	3.396	434	0.35	0.3	0.36	0.26
400	0.078	3.310	507	0.32	0.26	0.34	0.22
500	0.0605	3.123	590	0.29	0.23	0.32	0.195

Note: For condition of current carrying capacity please refer to Table 1 Appendix A



AL / PVC / PVC - 600 / 1000 VOLT (NAPPY)		IEC 60502-1, MS 2100
1-CORE : ALUMINIUM CONDUCTOR, PVC INSULATED AND PVC SHEATHED CABLE		
Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking.		Construction : 1 - Aluminium Conductor 2 - PVC Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt	Insulation Colour : Black or as per order	
Specification : IEC 60502-1, MS 2100		
Conductor Operating Temperature : 70°C	Outer Sheath Colour : Black or as per order	

DIMENSIONAL & MECHANICAL DATA

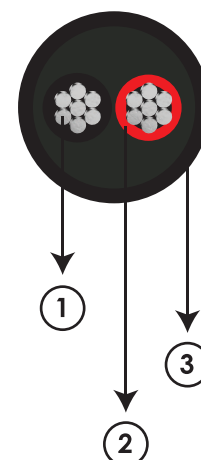
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.00	1.4	9.6	128	77	1000
25	7	compacted	1.20	1.4	11.2	178	90	1000
35	7	compacted	1.20	1.4	12.3	215	98	1000
50	7	compacted	1.40	1.4	13.8	274	110	1000
70	12	compacted	1.40	1.4	15.3	349	122	1000
95	15	compacted	1.60	1.5	17.8	468	142	1000
120	15	compacted	1.60	1.5	18.9	549	151	1000
150	15	compacted	1.80	1.6	21.0	671	168	1000
185	30	compacted	2.00	1.7	23.6	837	189	1000
240	30	compacted	2.20	1.7	26.1	1051	209	1000
300	30	compacted	2.40	1.8	28.8	1284	230	1000
400	53	compacted	2.60	1.9	32.0	1609	256	1000
500	53	compacted	2.8	2.1	35.9	2030	287	1000
630	54	compacted	2.8	2.2	39.7	2512	318	1000

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop			
	DC Conductor Max	Insulation Min (calculated)	In Air (trefoil touching)	Trunking (in conduit on wall)	Single-Phase (cable spaced*)	Single-Phase (cable touching)	Three-Phase (cable spaced*, flat)	Three-Phase (cable touching, trefoil)
mm²	Ω/km	MΩ.km	A	A	mV/A/m			
16	1.9100	5.8330	73	48	4.5	4.5	3.9	3.9
25	1.2000	5.4070	97	62	2.9	2.9	2.5	2.5
35	0.8680	4.8380	120	77	2.1	2.1	1.8	1.8
50	0.6410	4.8980	128	104	1.55	1.55	1.4	1.35
70	0.4430	4.1580	166	133	1.1	1.05	0.96	0.92
95	0.3200	3.9700	203	161	0.82	0.79	0.74	0.69
120	0.2530	3.6110	237	186	0.67	0.64	0.61	0.55
150	0.2060	3.6310	274	204	0.55	0.52	0.52	0.45
185	0.1640	3.5960	316	230	0.47	0.43	0.46	0.37
240	0.1250	3.5410	375	269	0.4	0.35	0.4	0.3
300	0.1000	3.3960	434	306	0.35	0.3	0.36	0.26
400	0.0778	3.3100	507	352	0.32	0.26	0.34	0.22
500	0.0605	3.123	590	405	0.29	0.23	0.32	0.195
630	0.0469	2.776	680	462	0.28	0.21	0.31	0.18

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / PVC / PVC - 600 / 1000 VOLT (NAPP)		IEC 60502-1, MS 2102	
2-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED AND PVC SHEATHED CABLE			
Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking.		Construction : 1 - Aluminium Conductor 2 - PVC Insulated 3 - PVC Sheathed	
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 2-Cores (Red, Black) or (Brown, Blue)	
Specification : IEC 60502-1, MS 2102			
Conductor Operating Temperature : 70°C		Outer Sheath Colour : Black or as per order	

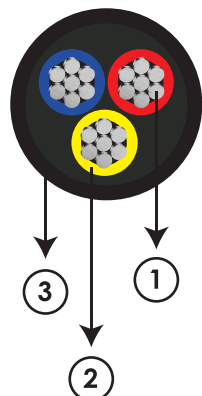


DIMENSIONAL & MECHANICAL DATA								
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compact	1.0	1.8	17.2	386	138	1000
25	7	compact	1.2	1.8	20.4	548	163	1000
35	7	compact	1.2	1.8	22.6	672	181	1000
50	7	compact	1.4	1.8	25.6	868	205	1000
70	12	compact	1.4	1.8	28.6	1105	229	1000
95	15	compact	1.6	2.0	33.6	1513	269	1000
120	15	compact	1.6	2.1	36.0	1775	288	1000
150	15	compact	1.8	2.2	40.0	2180	320	1000
185	30	compact	2.0	2.4	45.2	2757	362	1000
240	30	compact	2.2	2.5	50.4	3474	403	1000
300	30	compact	2.4	2.7	55.8	4264	446	1000

ELECTRICAL DATA						
Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Trunking (in conduit on wall)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.833	61	48	4.5	3.9
25	1.200	5.407	78	62	2.9	2.5
35	0.868	4.838	96	77	2.1	1.8
50	0.641	4.898	117	92	1.55	1.35
70	0.443	4.158	150	116	1.05	0.92
95	0.320	3.970	183	139	0.79	0.68
120	0.253	3.611	212	160	-	0.55
150	0.206	3.631	245	176	-	0.44
185	0.164	3.596	280	199	-	0.37
240	0.125	3.541	330	232	-	0.3
300	0.100	3.396	381	265	-	0.25

Note: For condition of current carrying capacity please refer to Table 1 Appendix A





AL / PVC / PVC - 600 / 1000 VOLT (NAPP)		IEC 60502-1, MS 2102
3-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED AND PVC SHEATHED CABLE		
Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking.		Construction : 1 - Aluminium Conductor 2 - PVC Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt	Insulation Colour : 3-Cores (Red, Yellow, Blue) or (Brown, Black, Grey)	
Specification : IEC 60502-1, MS 2102		
Conductor Operating Temperature : 70°C	Outer Sheath Colour : Black or as per order	

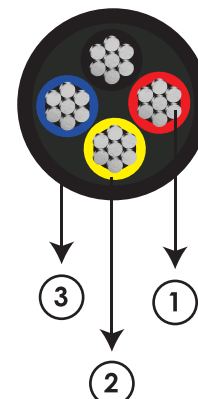
DIMENSIONAL & MECHANICAL DATA								
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.0	1.8	18.3	451	146	1000
25	7	compacted	1.2	1.8	21.8	646	174	1000
35	7	compacted	1.2	1.8	24.1	790	193	1000
50	7	compacted*	1.4	1.8	27.4	1029	219	1000
70	12	compacted*	1.4	1.9	30.8	1332	246	1000
95	15	compacted*	1.6	2.1	36.1	1812	289	1000
120	15	compacted*	1.6	2.1	38.5	2122	308	1000
150	15	compacted*	1.8	2.3	43.0	2625	344	500
185	30	compacted*	2.0	2.5	48.6	3315	389	500
240	30	compacted*	2.2	2.7	54.4	4218	435	500
300	30	compacted*	2.4	2.9	60.2	5176	482	500

Note: *shape can be compacted or sector

ELECTRICAL DATA						
Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Trunking (in conduit on wall)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.833	61	48	4.5	3.9
25	1.200	5.407	78	62	2.9	2.5
35	0.868	4.838	96	77	2.1	1.8
50	0.641	4.898	117	92	1.55	1.35
70	0.443	4.158	150	116	1.05	0.92
95	0.320	3.97	183	139	0.79	0.68
120	0.253	3.611	212	160	-	0.55
150	0.206	3.631	245	176	-	0.44
185	0.164	3.596	280	199	-	0.37
240	0.125	3.541	330	232	-	0.3
300	0.100	3.396	381	265	-	0.25

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / PVC / PVC - 600 / 1000 VOLT (NAPP)		IEC 60502-1, MS 2102	
4-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED AND PVC SHEATHED CABLE			
Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking.		Construction : 1 - Aluminium Conductor 2 - PVC Insulated 3 - PVC Sheathed	
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 4-Cores (Red, Yellow, Blue, Black) or (Brown, Black, Grey, Blue)	
Specification : IEC 60502-1, MS 2102			
Conductor Operating Temperature : 70°C		Outer Sheath Colour : Black or as per order	



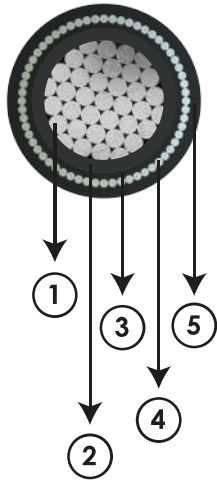
DIMENSIONAL & MECHANICAL DATA								
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.0	1.8	20.1	551	161	1000
25	7	compacted	1.2	1.8	23.9	788	191	1000
35	7	compacted	1.2	1.8	26.6	974	213	1000
50	7	sector*	1.4	1.8	27.8	1041	222	1000
70	12	sector*	1.4	1.9	31.3	1362	250	1000
95	15	sector*	1.6	2.1	36.2	1831	290	500
120	15	sector*	1.6	2.2	39.3	2199	314	500
150	15	sector*	1.8	2.3	43.4	2688	347	500
185	30	sector*	2.0	2.5	50.2	3359	402	500
240	30	sector*	2.2	2.7	54.4	4277	435	500
300	30	sector*	2.4	3.0	63.2	5333	506	300

Note: *shape can be compacted or sector

ELECTRICAL DATA						
Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Trunking (in conduit on wall)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.8330	61	48	4.5	3.9
25	1.200	5.4070	78	62	2.9	2.5
35	0.868	4.8380	96	77	2.1	1.8
50	0.641	3.7230	117	92	1.55	1.35
70	0.443	3.1390	150	116	1.05	0.92
95	0.320	3.0310	183	139	0.79	0.68
120	0.253	2.7850	212	160	-	0.55
150	0.206	2.7910	245	176	-	0.44
185	0.164	2.7300	280	199	-	0.37
240	0.125	2.6780	330	232	-	0.3
300	0.100	2.7220	381	265	-	0.25

Note: For condition of current carrying capacity please refer to Table 1 Appendix A





AL / PVC / PVC / AWA / PVC - 600 / 1000 VOLT (NAYRY)

IEC 60502-1, MS 2101

1-CORE : ALUMINIUM CONDUCTOR, PVC INSULATED, PVC BEDDING, ALUMINIUM WIRE ARMoured AND PVC SHEATHED CABLE

Application : This cable is primarily used for main power supply such as in switchgears and power station. It can be installed in cable ducts, cable trenches and cable trunking. The armoured cable is ideal for ground emplacement if a higher electrical or mechanical protection is required.

Construction : 1 - Aluminium Conductor
2 - PVC Insulated
3 - PVC Bedding
4 - Armoured
5 - PCV Sheathed

Voltage Rating : 600 / 1000 Volt

Insulation Colour : Black or as per order

Specification : IEC 60502-1, MS 2101

Conductor Operating Temperature : 70°C

Outer Sheath Colour : Black or as per order

DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.0	1.80	16.2	333	162	1,000
25	7	compacted	1.2	1.80	17.8	410	178	1,000
35	7	compacted	1.2	1.80	18.9	461	189	1,000
50	7	compacted	1.4	1.80	20.4	547	204	1,000
70	12	compacted	1.4	1.80	21.9	644	219	1,000
95	15	compacted	1.6	1.80	24.2	792	242	1,000
120	15	compacted	1.6	1.80	25.3	891	253	1,000
130	15	compacted	1.8	1.80	27.2	1033	272	1,000
185	30	compacted	2.0	1.90	29.8	1239	298	1,000
240	30	compacted	2.2	1.90	32.3	1490	323	500
300	30	compacted	2.4	2.10	36.0	1855	360	500
400	53	compacted	2.6	2.20	39.6	2279	396	500
500	53	compacted	2.8	2.30	43.3	2756	433	500
630	54	compacted	2.8	2.50	48.3	3450	483	500

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop			
	DC Conductor Max	Insulation Min (calculated)	In Air (trefoil touching)	Clipped Direct (flat touching)	Single-Phase (spaced)	Single-Phase (touching)	Three-Phase (flat & spaced)	Three-Phase (touching & trefoil)
mm ²	Ω/km	MΩ.km	A	A	mV/A/m			
16	1.910	5.8330	-	-	-	-	-	-
25	1.200	5.4070	-	-	-	-	-	-
35	0.868	4.8380	-	-	-	-	-	-
50	0.641	4.8980	131	133	1.55	1.55	1.35	1.35
70	0.443	4.1580	168	168	1.1	1.1	1	0.93
95	0.320	3.9700	205	202	0.86	0.81	0.8	0.7
120	0.253	3.6110	238	233	0.71	0.66	0.68	0.57
150	0.206	3.6310	275	267	0.6	0.54	0.58	0.47
185	0.164	3.5960	315	303	0.52	0.45	0.51	0.39
240	0.125	3.5410	372	354	0.44	0.37	0.44	0.32
300	0.100	3.3960	430	405	0.39	0.32	0.4	0.27
400	0.078	3.3100	497	452	0.36	0.28	0.38	0.24
500	0.061	3.1230	568	501	0.33	0.25	0.35	0.22
630	0.0605	3.123	568	-	0.31	0.23	0.32	0.2

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / PVC / PVC / SWA / PVC - 600 / 1000 VOLT (NAYRY)

IEC 60502-1, MS 2103

**2-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED, PVC BEDDING, GALVANISED STEEL
WIRE ARMoured AND PVC SHEATHED CABLE**

Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking. The armoured cable is ideal for ground emplacement if a higher electrical or mechanical protection is required.

Construction : 1 - Aluminium Conductor
2 - PVC Insulated
3 - PVC Bedding
4 - Armoured
5 - PCV Sheathed

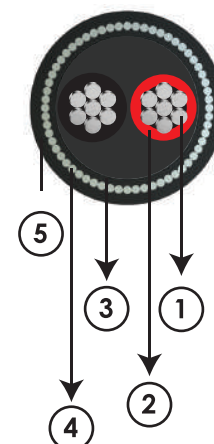
Voltage Rating : 600 / 1000 Volt

Insulation Colour : 2-Cores (Red, Black) or (Brown, Blue)

Specification : IEC 60502-1, MS 2103

Conductor Operating Temperature : 70°C

Outer Sheath Colour : Black or as per order



DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compact	1.0	1.80	22.5	793	225	1,000
25	7	compact	1.2	1.80	26.4	1132	264	1,000
35	7	compact	1.2	1.80	28.6	1303	286	1,000
50	7	compact	1.4	1.90	31.8	1564	318	1,000
70	12	compact	1.4	2.10	36.0	2065	360	1,000
95	15	compact	1.6	2.20	41.2	2608	412	1,000
120	15	compact	1.6	2.30	44.0	2950	440	1,000
130	15	compact	1.8	2.50	49.6	3854	496	1,000
185	30	compact	2.0	2.70	54.8	4541	548	1,000
240	30	compact	2.2	2.90	60.2	5371	602	500
300	30	compact	2.4	3.00	65.8	6297	658	500
400	53	compact	2.6	3.30	72.4	7474	724	500

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Direct In Ground (laid directly)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.833	61	-	4.5	3.9
25	1.200	5.407	80	77.5	2.9	2.5
35	0.868	4.838	99	93.2	2.1	1.8
50	0.641	4.898	119	110.1	1.55	1.35
70	0.443	4.158	151	135.5	1.05	0.92
95	0.320	3.97	186	159.8	0.79	0.68
120	0.253	3.611	216	181.5	-	0.55
150	0.206	3.631	250	204.5	-	0.44
185	0.164	3.596	287	229.9	-	0.37
240	0.125	3.541	342	263.8	-	0.3
300	0.100	3.396	399	298.9	-	0.25
400	0.0778	3.31	462	346.1	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A



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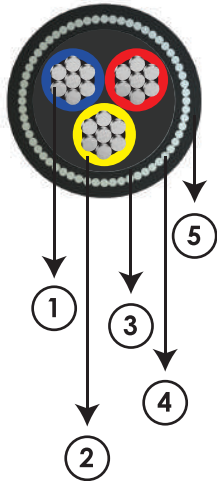


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7



AL / PVC / PVC / SWA / PVC - 600 / 1000 VOLT (NARY)

IEC 60502-1, MS 2103

3-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED, PVC BEDDING, GALVANISED STEEL WIRE ARMoured AND PVC SHEATHED CABLE

Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking. The armoured cable is ideal for ground emplacement if a higher electrical or mechanical protection is required.

Construction : 1 - Aluminium Conductor
2 - PVC Insulated
3 - PVC Bedding
4 - Armoured
5 - PCV Sheathed

Voltage Rating : 600 / 1000 Volt

Insulation Colour : 3-Cores (Red, Yellow, Blue) or (Brown, Black, Grey)

Specification : IEC 60502-1, MS 2103

Conductor Operating Temperature : 70°C

Outer Sheath Colour : Black or as per order

DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.00	1.8	24.3	1008	243	1000
25	7	compacted	1.20	1.8	27.8	1286	278	1000
35	7	compacted	1.20	1.9	30.3	1495	303	1000
50	7	compacted*	1.40	2.0	34.6	2020	346	1000
70	12	compacted*	1.40	2.2	38.9	2481	389	1000
95	15	compacted*	1.60	2.3	44.1	3092	441	1000
120	15	compacted*	1.60	2.5	47.9	3843	479	1000
150	15	compacted*	1.80	2.6	52.6	4522	526	500
180	30	compacted*	2.00	2.8	58.1	5336	581	500
240	30	compacted*	2.20	3.0	64.3	6450	643	500
300	30	compacted*	2.40	3.2	70.1	7552	701	500
400	53	compacted*	2.6	3.50	78.9	9890	789	500

Note: *shape can be compacted or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Direct In Ground (laid directly)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.833	61	-	4.5	3.9
25	1.200	5.407	80	77.5	2.9	2.5
35	0.868	4.838	99	93.2	2.1	1.8
50	0.641	4.898	119	110.1	1.55	1.35
70	0.443	4.158	151	135.5	1.05	0.92
95	0.320	3.970	186	159.8	0.79	0.68
120	0.253	3.611	216	181.5	-	0.55
150	0.206	3.631	250	204.5	-	0.44
185	0.164	3.596	287	229.9	-	0.37
240	0.125	3.541	342	263.8	-	0.3
300	0.100	3.396	399	298.9	-	0.25
400	0.0778	3.31	462	346.1	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / PVC / PVC / SWA / PVC - 600 / 1000 VOLT (NAYRY)

IEC 60502-1, MS 2103

**4-CORES : ALUMINIUM CONDUCTOR, PVC INSULATED, PVC BEDDING, GALVANISED STEEL
WIRE ARMoured AND PVC SHEATHED CABLE**

Application : This cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cable ladders and in cable trunking. The armoured cable is ideal for ground emplacement if a higher electrical or mechanical protection is required.

Construction : 1 - Aluminium Conductor
2 - PVC Insulated
3 - PVC Bedding
4 - Armoured
5 - PCV Sheathed

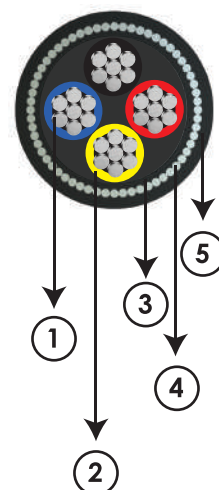
Voltage Rating : 600 / 1000 Volt

Specification : IEC 60502-1, MS 2103

Conductor Operating Temperature : 70°C

Insulation Colour : 4-Cores (Red, Yellow, Blue, Black) or (Brown, Black, Grey, Blue)

Outer Sheath Colour : Black or as per order



DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	1.0	1.80	26.1	1154	261	1000
25	7	compacted	1.2	1.9	30.1	1503	301	1000
35	7	compacted	1.2	2.0	33.0	1760	330	1000
50	7	sector*	1.4	2.0	34.8	2173	348	1000
70	12	sector*	1.4	2.2	38.9	2691	389	1000
95	15	sector*	1.6	2.3	43.6	3328	436	1000
120	15	sector*	1.6	2.5	47.9	4186	479	1000
150	15	sector*	1.8	2.6	52.4	4944	524	500
185	30	sector*	2.0	2.8	59.2	5908	592	500
240	30	sector*	2.2	3.0	63.8	7112	638	500
300	30	sector*	2.4	3.3	72.6	8604	726	500
400	53	sector*	2.6	3.70	86.60	11905	866	500

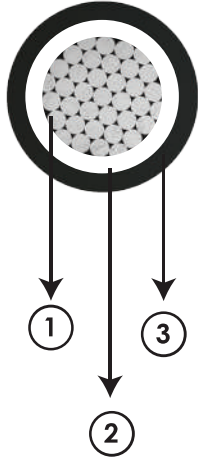
Note: *shape can be compacted or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Direct In Ground (laid directly)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	5.8330	61	-	4.5	3.9
25	1.200	5.4070	80	77.5	2.9	2.5
35	0.868	4.8380	99	93.2	2.1	1.8
50	0.641	3.7230	119	110.1	1.55	1.35
70	0.443	3.1390	151	135.5	1.05	0.92
95	0.320	3.0310	186	159.8	0.79	0.68
120	0.253	2.7850	216	181.5	-	0.55
150	0.206	2.7910	250	204.5	-	0.44
185	0.164	2.7300	287	229.9	-	0.37
240	0.125	2.6780	342	263.8	-	0.3
300	0.100	2.7220	399	298.9	-	0.25
400	0.0778	3.31	462	346.1	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A





AL / XLPE / PVC - 600 / 1000 VOLT (NA2XY)		IEC 60502-1
1-CORE : ALUMINIUM CONDUCTOR, XLPE INSULATED AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt		Insulation Colour : Natural or as per order
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C		Outer Sheathed Colour : Black or as per order

DIMENSIONAL & MECHANICAL DATA

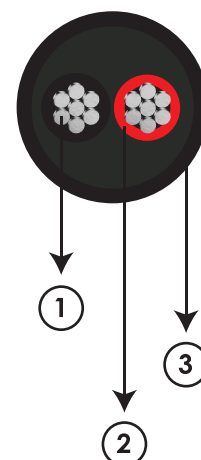
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	0.7	1.4	9.0	107	72	1,000
25	7	compacted	0.9	1.4	10.6	149	84.8	1,000
35	7	compacted	0.9	1.4	11.7	184	93.6	1,000
50	7	compacted	1.0	1.4	13.0	231	104	1,000
70	12	compacted	1.1	1.4	14.7	305	117.6	1,000
95	15	compacted	1.1	1.4	16.6	393	132.8	1,000
120	15	compacted	1.2	1.5	18.1	483	144.8	1,000
150	15	compacted	1.4	1.5	20.0	583	160	1,000
185	30	compacted	1.6	1.6	22.6	730	180.8	1,000
240	30	compacted	1.7	1.7	25.1	928	200.8	1,000
300	30	compacted	1.8	1.8	27.6	1133	220.8	1,000
400	53	compacted	2.0	1.9	30.8	1430	246.4	1,000
500	53	compacted	2.2	2.0	34.5	1803	276	1,000
630	54	compacted	2.4	2.2	38.9	2300	311.2	1,000

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop			
	DC Conductor Max	Insulation Min (calculated)	In Air (trefoil touching)	Clipped Direct (flat touching or trefoil)	Single-Phase (conduit / trunking)	Single-Phase (cable touching)	Three-Phase (cable spaced*, flat)	Three-Phase (cable touching, trefoil)
mm²	Ω/km	MΩ.km	A	A	mV/A/m			
16	1.9100	431.337	-	94	-	-	4.2	4.2
25	1.2000	418.172	97	123	-	-	2.7	2.7
35	0.8680	375.935	120	136	-	-	1.95	1.95
50	0.6410	365.456	159	148	1.72	1.66	1.48	1.45
70	0.4430	334.042	206	174	1.21	1.14	1.02	0.98
95	0.3200	282.301	253	211	0.91	0.84	0.78	0.73
120	0.2530	275.886	296	245	0.74	0.67	0.64	0.59
150	0.2060	286.849	343	283	0.61	0.55	0.54	0.47
185	0.1640	292.239	395	323	0.53	0.46	0.47	0.39
240	0.1250	279.470	471	382	0.43	0.36	0.41	0.32
300	0.1000	259.033	547	440	0.38	0.31	0.37	0.27
400	0.0778	259.033	638	594	-	0.27	0.34	0.23
500	0.0605	248.310	743	692	-	0.23	0.32	0.2
630	0.0469	238.780	849	791	-	0.21	0.31	0.185

Note: For condition of current carrying capacity please refer to Table 1 Appendix A
*Spacings larger than one cable diameter will result in larger voltage drop

AL / XLPE / PVC - 600 / 1000 VOLT (NA2XY)		IEC 60502-1
2-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt	Insulation Colour : 2-Cores (Red, Black) or (Brown, Blue)	
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C	Outer Sheathed Colour : Black or as per order	



DIMENSIONAL & MECHANICAL DATA

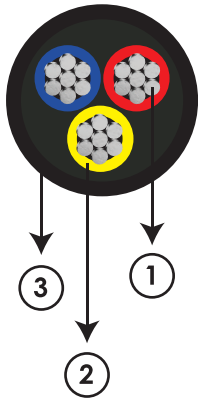
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compact	0.7	1.8	1.8	270	14.4	1000
25	7	compact	0.9	1.8	1.8	383	14.4	1000
35	7	compact	0.9	1.8	1.8	471	14.4	1000
50	7	compact	1.0	1.8	1.8	594	14.4	1000
70	12	compact	1.1	1.8	1.8	784	14.4	1000
95	15	compact	1.1	1.9	1.9	1025	15.2	1000
120	15	compact	1.2	2.0	2.0	1251	16.0	1000
150	15	compact	1.4	2.2	2.2	1552	17.6	1000
185	30	compact	1.6	2.3	2.3	1939	18.4	1000
240	30	compact	1.7	2.5	2.5	2456	20.0	1000
300	30	compact	1.8	2.6	2.6	2976	20.8	1000
400	53	compact	2.0	2.9	2.9	3784	23.2	1000



ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Clipped Direct	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	431.337	77	76	4.8	4.2
25	1.200	418.172	97	90	3.1	2.7
35	0.868	375.935	120	112	2.2	1.95
50	0.641	365.456	146	136	1.165	1.45
70	0.443	334.042	187	174	1.15	0.97
95	0.320	282.301	227	211	0.84	0.72
120	0.253	275.886	263	245	-	0.58
150	0.206	286.849	304	283	-	0.47
185	0.164	292.239	347	323	-	0.39
240	0.125	279.470	409	382	-	0.31
300	0.100	259.033	471	440	-	0.26
400	0.078	259.033	546	510	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A



AL / XLPE / PVC - 600 / 1000 VOLT (NA2XY)		IEC 60502-1
3-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt	Insulation Colour : 3-Cores (Red, Yellow, Blue) or (Brown, Black, Grey)	
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C	Outer Sheathed Colour : Black or as per order	

DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	0.7	1.8	17.2	329	138	1000
25	7	compacted	0.9	1.8	20.7	474	166	1000
35	7	compacted	0.9	1.8	23.0	586	184	1000
50	7	compacted*	1.0	1.8	25.8	744	206	1000
70	12	compacted*	1.1	1.9	30.1	1017	241	1000
95	15	compacted*	1.1	2.0	34.3	1325	274	1000
120	15	compacted*	1.2	2.1	37.4	1621	299	1000
150	15	compacted*	1.4	2.3	41.8	2001	334	1000
185	30	compacted*	1.6	2.4	47.2	2503	378	1000
240	30	compacted*	1.7	2.6	52.6	3187	421	1000
300	30	compacted*	1.8	2.8	57.9	3890	463	1000
400	53	compacted*	2.0	3.0	64.8	4925	518	1000

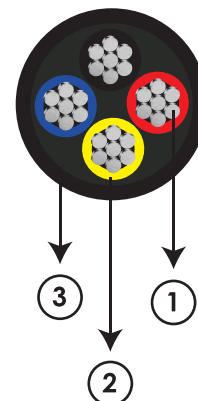
Note: *shape can be compacted or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Clipped Direct	Single-Phase	Three-Phase
mm²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.9100	431.337	77	76	4.8	4.2
25	1.2000	418.172	97	90	3.1	2.7
35	0.8680	375.935	120	112	2.2	1.95
50	0.6410	365.456	146	136	1.165	1.45
70	0.4430	334.042	187	174	1.15	0.97
95	0.3200	282.301	227	211	0.84	0.72
120	0.2530	275.886	263	245	-	0.58
150	0.2060	286.849	304	283	-	0.47
185	0.1640	292.239	347	323	-	0.39
240	0.1250	279.470	409	382	-	0.31
300	0.1000	259.033	471	440	-	0.26
400	0.0778	259.033	546	510	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / XLPE / PVC - 600 / 1000 VOLT (NA2XY)		IEC 60502-1
4-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Sheathed
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 4-Cores (Red, Yellow, Blue, Black) or (Brown, Black, Grey, Blue)
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C		Outer Sheathed Colour : Black or as per order



DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compact	0.7	1.8	18.8	401	150	1000
25	7	compact	0.9	1.8	22.7	583	182	1000
35	7	compact	0.9	1.8	25.3	724	202	1000
50	7	sector*	1.0	1.8	25.7	846	206	1000
70	12	sector*	1.1	1.9	29.7	1156	238	1000
95	15	sector*	1.1	2.0	33.4	1509	267	1000
120	15	sector*	1.2	2.1	36.9	1864	295	1000
150	15	sector*	1.4	2.2	41.0	2281	328	1000
185	30	sector*	1.6	2.4	47.4	2881	379	1000
240	30	sector*	1.7	2.6	51.5	3661	412	1000
300	30	sector*	1.8	2.9	60.3	4570	482	1000
400	53	sector*	2.0	3.0	63.7	5703	510	1000

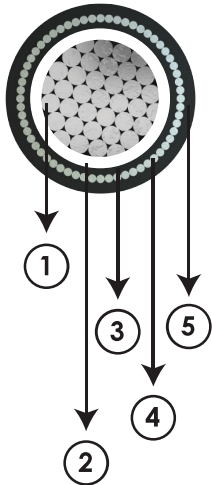
Note: *shape can be compacted or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	Clipped Direct	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.9100	431.337	77	76	4.8	4.2
25	1.2000	418.172	97	90	3.1	2.7
35	0.8680	375.935	120	112	2.2	1.95
50	0.6410	274.103	146	136	1.165	1.45
70	0.4430	250.458	187	174	1.15	0.97
95	0.3200	213.079	227	211	0.84	0.72
120	0.2530	213.435	263	245	-	0.58
150	0.2060	220.421	304	283	-	0.47
185	0.1640	220.192	347	323	-	0.39
240	0.1250	210.271	409	382	-	0.31
300	0.1000	206.688	471	440	-	0.26
400	0.0778	195.053	546	510	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A





AL / XLPE / PVC / AWA / PVC - 600 / 1000 VOLT (NA2XRY)		IEC 60502-1
1-CORE : ALUMINIUM CONDUCTOR, XLPE INSULATED, PVC BEDDING, ALUMINIUM WIRE ARMoured AND PVC SHEATHED CABLE		
Application : This cable is primarily used for main power supply. It can be installed in cable ducts, in cable trunking, on cable trays, and on cable ladders.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Bedding 4 - Armoured 5 - PCV Sheathed
Voltage Rating : 600 / 1000 Volt		Insulation Colour : Natural or as per order
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C		Outer Sheath Colour : Black or as per order

DIMENSIONAL & MECHANICAL DATA

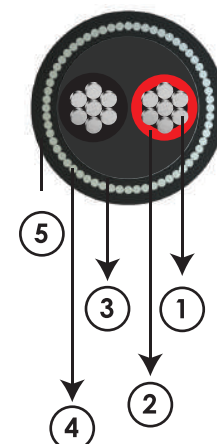
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation			Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Diameter of Aluminium Wire Armour	Outer Sheath	Overall Diameter	Net Weight		
mm²	min	shape	mm	mm	mm	mm	kg/km	mm	m
16	7	compacted	0.7	1.6	1.8	15.6	302	156.0	1,000
25	7	compacted	0.9	1.6	1.8	17.2	372	172.0	1,000
35	7	compacted	0.9	1.6	1.8	18.3	420	183.0	1,000
50	7	compacted	1.0	1.6	1.8	19.6	493	196.0	1,000
70	12	compacted	1.1	1.6	1.8	21.3	590	213.0	1,000
85	15	compacted	1.1	1.6	1.8	23.2	713	232.0	1,000
120	15	compacted	1.2	1.6	1.8	24.5	815	245.0	1,000
150	15	compacted	1.4	1.6	1.8	26.4	944	264.0	1,000
185	30	compacted	1.6	1.6	1.8	28.8	1119	288.0	1,000
240	30	compacted	1.7	1.6	1.9	31.3	1355	313.0	1,000
300	30	compacted	1.8	2.0	2.0	34.6	1671	346.0	1,000
400	53	compacted	2.0	2.0	2.1	38.2	2056	382.0	500
500	53	compacted	2.2	2.0	2.3	42.1	2519	421.0	500
630	53	compacted	2.4	2.5	2.4	47.3	3210	473.0	500

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop		
	DC Conductor Max	Insulation Min (calculated)	In Air (trefoil touching)	In Ground (ducting or direct)	Single-Phase (spaced)	Single-Phase (touching)	Three-Phase (trefoil, touching)
mm²	Ω/km	MΩ.km	A	A	mV/A/m		
16	1.91	431.337	-	-	-	-	-
25	1.200	418.172	-	-	-	-	-
35	0.868	375.935	-	-	-	-	-
50	0.641	365.456	162	177	1.6	1.6	1.4
70	0.443	334.042	207	218	1.15	1.15	0.98
95	0.320	282.301	252	260	0.9	0.85	0.74
120	0.253	275.886	292	296	0.74	0.69	0.6
150	0.206	286.849	337	331	0.62	0.57	0.49
185	0.1640	292.239	391	374	0.54	0.47	0.41
240	0.1250	279.470	465	433	0.45	0.39	0.34
300	0.1000	259.033	540	486	0.4	0.33	0.29
400	0.0778	259.033	625	563	0.36	0.29	0.25
500	0.0605	248.310	714	629	0.34	0.25	0.22
630	0.0469	238.780	801	701	0.31	0.24	0.2

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / XLPE / PVC / SWA / PVC - 600 / 1000 VOLT (NA2XRY)		IEC 60502-1
2-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED, GALVANISED STEEL WIRE ARMoured AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Bedding 4 - Armoured 5 - PCV Sheathed
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 2-Cores (Red, Black) or (Brown, Blue)
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C		Outer Sheath Colour : Black or as per order

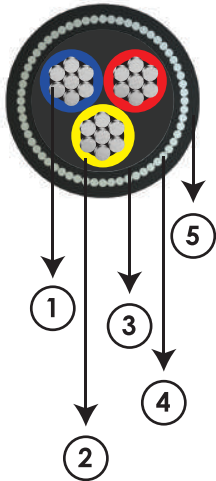


DIMENSIONAL & MECHANICAL DATA								
Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	0.7	1.8	21.3	704	213	1,000
25	7	compacted	0.9	1.8	25.2	1027	252	1,000
35	7	compacted	0.9	1.8	27.4	1189	274	1,000
50	7	compacted	1	1.9	30.2	1403	302	1,000
70	12	compacted	1.1	2.0	34.6	1915	346	1,000
95	15	compacted	1.1	2.2	39.2	2356	392	1,000
120	15	compacted	1.2	2.3	42.4	2707	424	500
150	15	compacted	1.4	2.4	47.4	3515	474	500
185	30	compacted	1.6	2.6	53.0	4201	530	500
240	30	compacted	1.7	2.8	58.0	4957	580	300
300	30	compacted	1.8	3.0	63.4	5833	634	300

ELECTRICAL DATA						
Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	In Ground (direct)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.910	431.337	74	88	4.8	4.2
25	1.200	418.172	98	112	3.1	2.7
35	0.868	375.935	120	135	2.2	1.95
50	0.641	365.456	145	159	1.165	1.45
70	0.443	334.042	185	195	1.15	0.97
95	0.320	282.301	224	231	0.84	0.72
120	0.253	275.886	264	261	-	0.58
150	0.206	286.849	305	295	-	0.47
185	0.164	292.239	350	330	-	0.39
240	0.125	279.470	418	379	-	0.31
300	0.100	259.033	488	429	-	0.26

Note: For condition of current carrying capacity please refer to Table 1 Appendix A





AL / XLPE / PVC / SWA / PVC - 600 / 1000 VOLT (NA2XRY)		IEC 60502-1
3-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED, GALVANISED STEEL WIRE ARMOURED AND PVC INSULATED CABLE		
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Bedding 4 - Armoured 5 - PCV Sheathed
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 3-Cores (Red, Yellow, Blue) or (Brown, Black, Grey)
Specification : IEC 60502-1		
Conductor Operating Temperature : 90°C		Outer Sheath Colour : Black or as per order

DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compacted	0.7	1.8	22	788	223	1,000
25	7	compacted	0.9	1.8	27	1156	265	1,000
35	7	compacted	0.9	1.8	29	1343	288	1,000
50	7	compacted*	1.0	1.9	32	1609	318	1,000
70	12	compacted*	1.1	2.1	38	2271	375	1,000
95	15	compacted*	1.1	2.3	42	2777	419	1,000
120	15	compacted*	1.2	2.4	45	3197	450	500
150	15	compacted*	1.4	2.5	51	4143	506	500
185	30	compacted*	1.6	2.7	56	4909	562	300
240	30	compacted*	1.7	2.9	62	5927	620	300
300	30	compacted*	1.8	3.1	67	6876	673	300

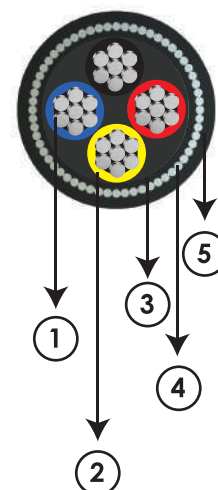
Note: *shape can be compacted or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	In Ground (direct)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.91	431	74	88	4.8	4.2
25	1.200	418	98	112	3.1	2.7
35	0.868	376	120	135	2.2	1.95
50	0.641	365	145	159	1.165	1.45
70	0.443	334	185	195	1.15	0.97
95	0.320	282	224	231	0.84	0.72
120	0.253	276	264	261	-	0.58
150	0.206	287	305	295	-	0.47
185	0.164	292	350	330	-	0.39
240	0.125	279	418	379	-	0.31
300	0.100	259	488	429	-	0.26

Note: For condition of current carrying capacity please refer to Table 1 Appendix A

AL / XLPE / PVC / SWA / PVC - 600 / 1000 VOLT (NA2XRY)		IEC 60502-1	
4-CORES : ALUMINIUM CONDUCTOR, XLPE INSULATED, GALVANISED STEEL WIRE ARMoured AND PVC INSULATED CABLE			
Application : This cable is used in light fitting, and in switching and control equipment. It can be installed in conduit, in cable trunking and on cable trays.		Construction : 1 - Aluminium Conductor 2 - XLPE Insulated 3 - PVC Bedding 4 - Armoured 5 - PCV Sheathed	
Voltage Rating : 600 / 1000 Volt		Insulation Colour : 4-Cores (Red, Yellow, Blue, Black) or (Brown, Black, Grey, Blue)	
Specification : IEC 60502-1			
Conductor Operating Temperature : 90°C		Outer Sheath Colour : Black or as per order	



DIMENSIONAL & MECHANICAL DATA

Nominal Cross Sectional Area	No. of Wires and Conductor Shape		Nominal Thickness Insulation		Approximately		Bending Radius Min	Standard Delivery Length
			Insulation	Outer Sheath	Overall Diameter	Net Weight		
mm ²	min	shape	mm	mm	mm	kg/km	mm	m
16	7	compactd	0.7	1.8	24.6	1026	246.0	1,000
25	7	compactd	0.9	1.8	28.5	1322	285.0	1,000
35	7	compactd	0.9	1.9	31.3	1570	313.0	1,000
50	7	sector*	1.0	1.9	31.7	1695	317.0	1,000
70	12	sector*	1.1	2.1	36.7	2352	367.0	1,000
95	15	sector*	1.1	2.2	40.8	2910	408.0	1,000
120	15	sector*	1.2	2.3	44.3	3390	443.0	500
150	15	sector*	1.4	2.5	50.0	4399	500.0	500
185	30	sector*	1.6	2.7	56.4	5327	564.0	500
240	30	sector*	1.7	2.9	60.9	6352	609.0	300
300	30	sector*	1.8	3.2	69.7	7697	697.0	300
400	53	sector*	2.0	3.3	73.1	8980	731.0	200

Note: *shape can be compactd or sector

ELECTRICAL DATA

Nominal Cross Sectional Area	Resistance at 20°C		Current Carrying Capacity		Voltage Drop	
	DC Conductor Max	Insulation Min (calculated)	In Air (on perforated cable tray)	In Ground (direct)	Single-Phase	Three-Phase
mm ²	Ω/km	MΩ.km	A	A	mV/A/m	
16	1.9100	431.337	74	88.5	4.8	4.2
25	1.2000	418.172	98	112.5	3.1	2.7
35	0.8680	375.935	120	135.0	2.2	1.95
50	0.6410	274.103	145	159.0	1.165	1.45
70	0.4430	250.458	185	195.0	1.15	0.97
95	0.3200	213.079	224	231.0	0.84	0.72
120	0.2530	213.435	264	260.9	-	0.58
150	0.2060	220.421	305	295.4	-	0.47
185	0.1640	220.192	350	329.9	-	0.39
240	0.1250	210.271	418	379.4	-	0.31
300	0.1000	206.688	488	428.9	-	0.26
400	0.0778	195.053	551	574.4	-	0.21

Note: For condition of current carrying capacity please refer to Table 1 Appendix A



Single-core Cables with PVC Insulation, with or without Outer Sheath 450/750V or 600/1000V
Table PN1-A : Current-Carrying Capacity (Amp) [AL/PVC or AL/PVC/PVC]

Conductor Operating Temperature : 70°C
Ambient Temperature : 30°C

Conductor Cross Sectional Area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (in free air on a perforated cable tray, horizontal or vertical)				
	2-cables, single-phase a.c. or d.c.		3 or 4 cables, three-phase a.c.		2-cables, single-phase a.c. or d.c. flat and touching		Touching			Spaced By One Diameter	
							2-cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, single-phase a.c. or d.c. or 3 cables three-phase	
	2	3	4	5	6	7	8	9	10	11	12
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	44	41	54	48	66	59	83	73	73	91	83
25	58	53	71	62	83	73	111	97	97	119	111
35	71	65	86	77	103	90	137	120	120	139	137
50	93	84	118	104	125	110	149	133	128	169	152
70	118	107	150	133	160	140	192	173	166	217	196
95	142	129	181	161	195	170	235	212	203	265	241
120	164	149	210	186	226	197	273	247	237	308	282
150	189	170	234	204	261	227	316	287	274	356	327
185	215	194	266	230	298	259	363	330	316	407	376
240	252	227	312	269	352	305	430	392	375	482	447
300	289	261	358	306	406	351	497	455	434	557	519
400	-	-	413	352	511	472	543	502	507	625	584
500	-	-	477	405	591	546	629	582	590	726	680
630	-	-	545	462	679	626	722	669	680	837	787
800	-	-	-	-	771	709	820	761	776	956	902
1000	-	-	-	-	900	823	953	836	907	1125	1066

Table PN1-B : Voltage Drop (Per Amp Per Meter) [AL/PVC or AL/PVC/PVC]

Conductor Operating Temperature : 70°C
Ambient Temperature : 30°C

Conductor Cross Sectional Area	2 cables d.c.	2 cables, single-phase a.c.									3 or 4 cables, three-phase a.c.											
		Reference Methods A & B (enclosed in conduit or trunking)			Reference Methods C & F (clipped direct, on tray or in free air)						Reference Methods A & B (enclosed in conduit or trunking)			Reference Methods C & F (clipped direct, on tray or in free air)								
					Cables Touching			Cables Spaced*						Cables Touching, Trefoil			Cables Touching, Flat			Cables Spaced*, Flat		
1	2	3			4			5			6			7			8			9		
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)		
16	4.5		4.5			4.5			4.5			3.9			3.9			3.9			3.9	
25	2.9		2.9			2.9			2.9			2.5			2.5			2.5			2.5	
35	2.1		2.1			2.1			2.1			1.8			1.8			1.8			1.8	
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
50	1.550	1.600	0.300	1.600	1.550	0.190	1.550	1.550	0.280	1.550	1.350	0.260	1.400	1.350	0.165	1.350	1.350	0.240	1.350	1.350	0.320	1.400
70	1.050	1.100	0.300	1.150	1.050	0.185	1.050	1.050	0.270	1.100	0.940	0.260	0.970	0.910	0.160	0.920	0.910	0.240	0.940	0.910	0.310	0.960
95	0.770	0.810	0.290	0.860	0.770	0.185	0.790	0.770	0.270	0.820	0.700	0.250	0.740	0.670	0.160	0.690	0.670	0.230	0.710	0.670	0.310	0.740
120	0.610	0.640	0.290	0.700	0.610	0.180	0.640	0.610	0.270	0.670	0.550	0.250	0.610	0.530	0.155	0.550	0.530	0.230	0.580	0.530	0.310	0.610
150	0.490	0.510	0.280	0.590	0.490	0.175	0.520	0.490	0.260	0.550	0.450	0.240	0.510	0.420	0.155	0.450	0.420	0.230	0.480	0.420	0.300	0.520
185	0.390	0.420	0.280	0.500	0.400	0.175	0.430	0.390	0.260	0.470	0.360	0.240	0.440	0.340	0.150	0.370	0.340	0.230	0.410	0.340	0.300	0.460
240	0.300	0.320	0.270	0.420	0.300	0.170	0.350	0.300	0.260	0.400	0.280	0.240	0.370	0.260	0.150	0.300	0.260	0.220	0.350	0.260	0.300	0.400
300	0.240	0.260	0.270	0.370	0.240	0.170	0.300	0.240	0.260	0.350	0.230	0.230	0.320	0.210	0.145	0.260	0.210	0.220	0.310	0.210	0.300	0.360
400	0.190	0.220	0.270	0.350	0.195	0.165	0.260	0.195	0.250	0.320	0.190	0.230	0.300	0.170	0.145	0.220	0.170	0.220	0.280	0.170	0.290	0.340
500	0.150	0.180	0.260	0.320	0.155	0.165	0.230	0.155	0.250	0.290	0.155	0.230	0.270	0.140	0.140	0.195	0.140	0.220	0.260	0.135	0.290	0.320
630	0.120	0.150	0.260	0.300	0.130	0.160	0.210	0.125	0.250	0.280	0.125	0.220	0.260	0.110	0.140	0.180	0.110	0.220	0.240	0.110	0.290	0.310
800	0.099	-	-	-	0.105	0.160	0.190	0.100	0.250	0.270	-	-	-	0.094	0.135	0.165	0.094	0.210	0.230	0.089	0.290	0.300
1000	0.075	-	-	-	0.086	0.155	0.180	0.082	0.240	0.260	-	-	-	0.077	0.135	0.155	0.077	0.210	0.220	0.071	0.290	0.290

Note: Spacings larger than one cable diameter will result in larger voltage drop

PVC Insulated Cables

Multi-core Cables with PVC Insulation, PVC Outer Sheath 600/1000V

Table PN2-A : Current-Carrying Capacity (Amp) [AL/PVC/PVC]

Conductor Operating Temperature : 70°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)	
	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.
1	2	3	4	5	6	7	8	9
(mm ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	44	41	54	48	66	59	73	61
25	58	53	71	62	83	73	89	78
35	71	65	86	77	103	90	111	96
50	86	78	104	92	125	110	135	117
70	108	98	131	116	160	140	173	150
95	130	118	157	139	195	170	210	183
120	-	135	-	160	-	197	-	212
150	-	155	-	176	-	227	-	245
185	-	176	-	199	-	259	-	280
240	-	207	-	232	-	305	-	330
300	-	237	-	265	-	351	-	381
400	-	274	-	307	-	407	-	441

Table PN2-B : Voltage Drop (Per Amp Per Meter) [AL/PVC/PVC]

Conductor Operating Temperature : 70°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	2-cores cable d.c.	2-cores cable, single-phase a.c.			3-cores or 4-cores cable, three-phase a.c.		
1	1	2			3		
(mm ²)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
16	4.5		4.5			3.9	
		r	x	z	r	x	z
25	2.900	2.900	0.175	2.900	2.500	0.150	2.500
35	2.100	2.100	0.170	2.100	1.800	0.150	1.800
50	1.550	1.550	0.170	1.550	1.350	0.145	1.350
70	1.050	1.050	0.165	1.050	0.900	0.140	0.920
95	0.770	0.770	0.160	0.790	0.670	0.140	0.680
120	-	-	-	-	0.530	0.135	0.550
150	-	-	-	-	0.420	0.135	0.440
185	-	-	-	-	0.340	0.135	0.370
240	-	-	-	-	0.260	0.130	0.300
300	-	-	-	-	0.210	0.130	0.250
400	-	-	-	-	0.165	0.130	0.210

Single-core Cables with PVC Insulation, Armoured, PVC Outer Sheath 600/1000V
Table PA1-A : Current-Carrying Capacity (Amp) [AL/PVC/PVC/AWA/PVC]

Conductor Operating Temperature : 70°C
Ambient Temperature : 30°C

Conductor Cross Sectional Area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)								
	Touching		Touching			Spaced By One Cable Diameter					
	2 cables, single-phase a.c. or d.c. flat	3 or 4 cables, three-phase a.c. flat	2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.	
						Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
1	2	3	4	5	6	7	8	9	10	11	12
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
50	143	133	152	141	131	167	157	168	159	169	155
70	183	168	194	178	168	214	202	212	200	213	196
95	221	202	234	214	205	261	247	259	245	255	236
120	255	233	270	246	238	303	288	299	285	293	272
150	294	267	310	282	275	349	333	340	323	335	312
185	334	303	352	319	315	400	382	389	371	379	354
240	393	354	413	374	372	472	452	457	437	443	415
300	452	405	474	427	430	545	523	520	498	505	475
400	518	452	543	479	497	638	613	583	559	551	518
500	586	501	616	534	568	742	715	655	629	604	568
630	658	550	692	589	642	859	828	724	696	656	618
800	728	596	769	642	715	986	952	802	770	707	666
1000	819	651	868	706	808	1171	1133	866	832	770	726

Table PA1-B : Voltage Drop (Per Amp Per Meter) [AL/PVC/PVC/AWA/PVC]

Conductor Operating Temperature : 70°C
Ambient Temperature : 30°C

Conductor Cross Sectional Area	2 cables, d.c.	Reference Methods C & F (clipped direct, on tray or in free air)														
		2 cables, single-phase a.c.						3 or 4 cables, three-phase a.c.								
		Touching			Spaced*			Trefoil And Touching			Flat And Touching			Flat And Spaced*		
		(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)		
1	2	3			4			5			6			7		
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
50	1.550	1.550	0.230	1.550	1.550	0.310	1.550	1.350	0.195	1.350	1.350	0.270	1.350	1.300	0.340	1.350
70	1.050	1.050	0.220	1.100	1.050	0.300	1.100	0.920	0.190	0.930	0.930	0.260	0.960	0.950	0.330	1.000
95	0.770	0.780	0.210	0.810	0.810	0.290	0.860	0.680	0.185	0.700	0.700	0.250	0.750	0.730	0.320	0.800
120	0.610	0.620	0.210	0.660	0.650	0.290	0.710	0.540	0.180	0.570	0.570	0.250	0.620	0.600	0.320	0.680
150	0.490	0.500	0.200	0.540	0.530	0.280	0.600	0.440	0.175	0.470	0.460	0.240	0.520	0.500	0.310	0.580
185	0.390	0.410	0.195	0.450	0.440	0.280	0.520	0.350	0.170	0.390	0.380	0.240	0.450	0.420	0.300	0.510
240	0.300	0.320	0.190	0.370	0.340	0.270	0.440	0.280	0.165	0.320	0.300	0.230	0.380	0.330	0.290	0.440
300	0.240	0.260	0.185	0.320	0.280	0.260	0.390	0.220	0.160	0.270	0.240	0.230	0.340	0.280	0.290	0.400
400	0.190	0.220	0.185	0.280	0.260	0.250	0.360	0.185	0.155	0.240	0.220	0.220	0.320	0.270	0.260	0.380
500	0.150	0.180	0.180	0.250	0.220	0.250	0.330	0.155	0.155	0.220	0.195	0.220	0.290	0.240	0.250	0.350
630	0.120	0.150	0.175	0.230	0.195	0.240	0.310	0.130	0.150	0.200	0.170	0.210	0.270	0.210	0.240	0.320
800	0.097	0.135	0.170	0.220	0.180	0.230	0.290	0.115	0.145	0.185	0.160	0.200	0.260	0.200	0.220	0.300
1000	0.075	0.115	0.160	0.200	0.165	0.210	0.270	0.100	0.140	0.175	0.150	0.185	0.240	0.190	0.195	0.270

Note: Spacings larger than one cable diameter will result in larger voltage drop

PVC Insulated Cables Multi-core, Armoured

Multi-core Cables with PVC Insulation, Armoured, PVC Outer Sheath 600/1000V

Table PA2-A : Current-Carrying Capacity (Amp) [AL/PVC/PVC/SWA/PVC]

Conductor Operating Temperature : 70°C

Ambient Temperature : 30°C

Ground parameters for cable buried in ground

1) Maximum conductor temperature : 70°C

2) Ground temperature : 15°C

3) Air temperature : 30°C

4) Soil thermal resistivity : 1.2 K. m/W

5) Laying depth in ground : 0.5 meter

Conductor Cross Sectional Area	Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in ground)		Reference Method D (in ducting in ground)	
	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.
1	2	3	4	5	6	7	8	9
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	68	58	71	61	-	-	-	-
25	89	76	94	80	93.2	77.5	116.6	96.9
35	109	94	115	99	112.6	93.2	140.8	116.6
50	131	113	139	119	131.9	110.1	165.0	137.8
70	165	143	175	151	163.4	135.5	204.4	169.6
95	199	174	211	186	192.4	159.8	240.7	199.9
120	-	202	-	216	-	181.5	-	227.1
150	-	232	-	250	-	204.5	-	255.9
185	-	265	-	287	-	229.9	-	287.7
240	-	312	-	342	-	263.8	-	330.1
300	-	360	-	399	-	298.9	-	374.0
400	-	418	-	462	-	346.1	-	433.0

Table PA2-B : Voltage Drop (Per Amp Per Meter) [AL/PVC/PVC/SWA/PVC]

Conductor Operating Temperature : 70°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	2-cores cable, d.c.	2-cores cable, single-phase a.c.			3-cores or 4-cores cable, three-phase a.c.		
1	2	3			4		
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
16	4.5		4.5			3.9	
		r	x	z	r	x	z
25	2.90	2.900	0.175	2.900	2.500	0.150	2.500
35	2.10	2.100	0.170	2.100	1.800	0.150	1.800
50	1.55	1.550	0.170	1.550	1.350	0.145	1.350
70	1.05	1.050	0.165	1.050	0.900	0.140	0.920
95	0.77	0.770	0.160	0.790	0.670	0.140	0.680
120	-	-	-	-	0.530	0.135	0.550
150	-	-	-	-	0.420	0.135	0.440
185	-	-	-	-	0.340	0.135	0.370
240	-	-	-	-	0.260	0.130	0.300
300	-	-	-	-	0.210	0.130	0.250
400	-	-	-	-	0.165	0.130	0.210

Single-core Cables with XLPE Insulation, Unarmoured with or without Outer Sheath 600/1000V

Table XN1-A : Current-Carrying Capacity (Amp) [AL/XLPE or AL/XLPE/PVC or AL/XLPE/LSOH or AL/MGT/XLPE/PVC-FR or AL/MGT/XLPE/LSOH or AL/MGT/XLEVA/LSOH]

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (In free air on a perforated cable tray, horizontal or vertical)				
	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables, three-phase a.c. flat and touching or trefoil	Touching			Spaced By One Diameter	
							2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, single-phase a.c. or d.c. or 3 cables three-phase a.c. flat	
	2	3	4	5	6	7	8	9	10	11	12
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	-	-	72	62	113	94	-	-	-	78	78
25	-	-	94	80	147	123	99	97	97	99	89
35	-	-	117	101	154	136	129	125	120	122	121
50	125	113	157	140	177	148	184	165	159	210	188
70	158	142	200	179	198	174	237	215	206	271	244
95	191	171	242	217	241	211	289	264	253	332	300
120	220	197	281	251	280	245	337	308	296	387	351
150	253	226	307	267	324	283	389	358	343	448	408
185	288	256	351	300	371	323	447	413	395	515	470
240	338	300	412	351	439	382	530	492	471	611	561
300	387	344	471	402	508	440	613	571	547	708	652
400	-	-	-	-	658	594	679	628	638	798	742
500	-	-	-	-	765	692	786	728	743	927	865
630	-	-	-	-	871	791	903	936	849	1058	990
800	-	-	-	-	1001	911	1025	951	979	1218	1143
1000	-	-	-	-	1176	1072	1191	1108	1151	1440	1355

Table XN1-B : Voltage Drop (Per Amp Per Meter) [AL/XLPE or AL/XLPE/PVC or AL/XLPE/LSOH or AL/MGT/XLPE/PVC-FR or AL/MGT/XLPE/LSOH or AL/MGT/XLEVA/LSOH]

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	2 cables d.c.	2 cables, single phase a.c.									3 or 4 cables, three-phase a.c.											
		Reference Methods A & B (enclosed in conduit or trunking)			Reference Methods C, F & G (clipped direct, on tray or in free air)						Reference Methods A & B (enclosed in conduit or trunking)			Reference Methods C, F & G (clipped direct, on tray or in free air)								
1	2	3			4			5			6			7			8			9		
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)		
16			-			-			-			4.2			4.2			4.2			4.2	
25			-			-			-			2.7			2.7			2.7			2.7	
35			-			-			-			1.95			1.95			1.95			1.95	
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
50	1.650	1.70	0.30	1.72	1.650	0.190	1.660	1.650	0.280	1.680	1.440	0.260	1.460	1.440	0.165	1.450	1.440	0.240	1.460	1.440	0.320	1.480
70	1.130	1.17	0.30	1.21	1.120	0.185	1.140	1.120	0.270	1.150	1.000	0.260	1.040	0.970	0.160	0.980	0.970	0.240	1.000	0.970	0.310	1.020
95	0.820	0.86	0.29	0.91	0.820	0.185	0.840	0.820	0.270	0.940	0.750	0.250	0.790	0.710	0.160	0.730	0.710	0.230	0.750	0.710	0.310	0.780
120	0.650	0.68	0.29	0.74	0.650	0.180	0.670	0.650	0.270	0.700	0.590	0.250	0.640	0.570	0.155	0.590	0.570	0.230	0.610	0.570	0.310	0.640
150	0.530	0.54	0.28	0.61	0.520	0.175	0.550	0.520	0.260	0.580	0.480	0.240	0.540	0.450	0.155	0.470	0.450	0.230	0.500	0.450	0.300	0.540
185	0.420	0.45	0.28	0.53	0.430	0.175	0.460	0.420	0.260	0.490	0.380	0.240	0.450	0.360	0.150	0.390	0.360	0.230	0.430	0.360	0.300	0.470
240	0.320	0.34	0.27	0.43	0.320	0.170	0.360	0.360	0.260	0.410	0.300	0.240	0.380	0.280	0.150	0.320	0.280	0.220	0.350	0.280	0.300	0.410
300	0.260	0.28	0.27	0.38	0.260	0.170	0.310	0.320	0.260	0.360	0.250	0.230	0.340	0.220	0.145	0.270	0.220	0.220	0.310	0.220	0.300	0.370
400	0.200	-	-	-	0.210	0.165	0.270	0.210	0.250	0.330	0.200	0.230	0.310	0.180	0.145	0.230	0.180	0.220	0.280	0.180	0.290	0.340
500	0.160	-	-	-	0.170	0.165	0.230	0.165	0.250	0.300	0.165	0.230	0.280	0.150	0.140	0.200	0.150	0.220	0.270	0.145	0.290	0.320
630	0.130	-	-	-	0.140	0.160	0.210	0.135	0.250	0.280	0.135	0.220	0.260	0.120	0.140	0.185	0.120	0.220	0.250	0.120	0.290	0.310
800	0.105	-	-	-	0.115	0.160	0.190	0.110	0.250	0.270	-	-	-	0.100	0.135	0.170	0.100	0.210	0.230	0.095	0.290	0.300
1000	0.080	-	-	-	0.092	0.155	0.180	0.087	0.240	0.260	-	-	-	0.082	0.135	0.160	0.082	0.210	0.230	0.076	0.290	0.300

Note: Spacings larger than one cable diameter will result in larger voltage drop

XLPE or XLEVA Insulated Cables Multi-core, Unarmoured

Multi-core Cables with XLPE Insulation, Unarmoured, PVC Outer Sheath 600/1000V

Table XN2-A : Current-Carrying Capacity (Amp) [AL/XLPE/PVC or AL/XLPE/LSOH or AL/MGT/XLPE/PVC-FR or AL/MGT/XLPE/LSOH or AL/MGT/XLEVA/LSOH]

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)	
	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or 4-cores cable, three phase a.c.
1	2	3	4	5	6	7	8	9
(mm ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	60	55	72	64	84	76	91	77
25	78	71	94	84	101	90	108	97
35	96	87	115	103	126	112	135	120
50	115	104	138	124	154	136	164	146
70	145	131	175	156	198	174	211	187
95	175	157	210	188	241	211	257	227
120	-	180	-	216	-	245	-	263
150	-	206	-	240	-	283	-	304
185	-	233	-	272	-	323	-	347
240	-	273	-	318	-	382	-	409
300	-	313	-	364	-	440	-	471
400	-	363	-	422	-	510	-	546

Table XN2-B : Voltage Drop (Per Amp Per Meter) [AL/XLPE/PVC or AL/XLPE/LSOH or AL/MGT/XLPE/PVC-FR or AL/MGT/XLPE/LSOH or AL/MGT/XLEVA/LSOH]

Conductor Operating Temperature : 70°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	2-cores cable d.c.	2-cores cable, single-phase a.c.			3-cores or 4-cores cable, three-phase a.c.		
1	2	3			4		
(mm ²)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
16	4.8		4.8			4.2	
		r	x	z	r	x	z
25	3.100	3.100	0.165	3.100	2.700	0.140	2.700
35	2.200	2.200	0.160	2.200	1.900	0.140	1.950
50	0.600	1.650	0.160	1.165	1.400	0.135	1.450
70	0.100	1.100	0.155	1.150	0.960	0.135	0.970
95	0.820	0.820	0.150	0.840	0.710	0.130	0.720
120	-	-	-	-	0.560	0.130	0.580
150	-	-	-	-	0.450	0.130	0.470
185	-	-	-	-	0.370	0.130	0.390
240	-	-	-	-	0.280	0.125	0.310
300	-	-	-	-	0.230	0.125	0.260
400	-	-	-	-	0.185	0.099	0.210

Single-core Cables with XLPE Insulation, Armoured, PVC Outer Sheath 600/1000V

Table XA1-A : Current-Carrying Capacity (Amp) [AL/XLPE/PVC/AWA/PVC or AL/MGT/XLPE/PVC/AWA/PVC-FR or AL/XLPE/LSOH/AWA/LSOH]

Conductor Operating Temperature : 90°C
Ambient Temperature : 30°C

Ground parameters for cable buried in ground

- 1) Maximum conductor temperature : 90°C
- 2) Ground temperature : 15°C
- 3) Air temperature : 30°C
- 4) Soil thermal resistivity : 1.2 K. m/W
- 5) Laying depth in ground : 0.5 meter

Conductor Cross Sectional Area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)									Reference Method D (direct in ground or in ducting in ground)
	Touching		Touching			Spaced By One Cable Diameter						Three-phase a.c.
	2 cables, single-phase a.c. or d.c. flat	3 or 4 cables, three-phase a.c. flat	2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.		
						Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
1	2	3	4	5	6	7	8	9	10	11	12	13
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
50	179	165	192	176	162	216	197	212	199	215	192	177
70	228	209	244	222	207	275	253	269	254	270	244	218
95	276	252	294	267	252	332	307	328	310	324	296	260
120	320	291	340	308	292	384	357	378	358	372	343	296
150	368	333	390	352	337	441	411	429	409	424	394	331
185	419	378	444	400	391	511	480	490	467	477	447	374
240	494	443	521	468	465	605	572	576	549	554	535	433
300	568	508	597	536	540	701	666	654	624	626	595	486
400	655	573	688	608	625	812	780	735	704	693	649	563
500	747	642	786	685	714	942	906	825	790	765	717	629
630	836	706	880	757	801	1076	1036	909	872	832	780	701
800	934	764	988	824	897	1250	1205	989	950	890	835	777
1000	1056	838	1121	911	1014	1488	1435	1094	1052	970	911	854

Table XA1-B : Voltage Drop (Per Amp Per Meter) [AL/XLPE/PVC/AWA/PVC or AL/MGT/XLPE/PVC/AWA/PVC-FR or AL/XLPE/LSOH/AWA/LSOH or AL/MGT/XLPE/LSOH/AWA/LSOH or AL/MGT/XLEVA/LSOH/AWA/LSOH]

Conductor Operating Temperature : 90°C
Ambient Temperature : 30°C

Conductor Cross Sectional Area	2 cables, d.c.	Reference Methods C & F (clipped direct, on tray or in free air)															Reference Method D (direct in ground or in ducting in ground)
		2 cables, single-phase a.c.						3 or 4 cables, three-phase a.c.									
		Touching			Spaced*			Trefoil And Touching			Flat And Touching			Flat And Spaced*			
1	2	3			4			5			6			7			8
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)			(mV/A/m)
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	
50	1.600	1.600	0.220	1.600	1.600	0.300	1.600	1.400	0.185	1.400	1.400	0.260	1.400	1.350	0.340	1.400	1.450
70	1.100	1.100	0.210	1.150	1.100	0.290	1.150	0.960	0.180	0.980	0.970	0.250	1.000	0.990	0.330	1.050	0.980
95	0.820	0.830	0.200	0.850	0.850	0.290	0.900	0.710	0.175	0.740	0.740	0.250	0.780	0.760	0.320	0.830	0.740
120	0.660	0.660	0.200	0.690	0.690	0.280	0.740	0.570	0.170	0.600	0.600	0.240	0.640	0.630	0.310	0.700	0.600
150	0.520	0.530	0.195	0.570	0.560	0.280	0.620	0.460	0.170	0.490	0.490	0.240	0.540	0.520	0.300	0.600	0.490
185	0.420	0.430	0.190	0.470	0.460	0.270	0.540	0.380	0.165	0.410	0.400	0.240	0.470	0.440	0.300	0.530	0.410
240	0.320	0.340	0.185	0.390	0.370	0.270	0.450	0.290	0.160	0.340	0.320	0.230	0.390	0.350	0.290	0.460	0.340
300	0.260	0.270	0.185	0.330	0.300	0.260	0.400	0.240	0.160	0.290	0.260	0.230	0.340	0.290	0.290	0.410	0.290
400	0.210	0.230	0.180	0.290	0.260	0.250	0.360	0.195	0.155	0.250	0.230	0.220	0.320	0.270	0.270	0.380	0.240
500	0.160	0.185	0.175	0.250	0.230	0.250	0.340	0.160	0.155	0.220	0.200	0.210	0.290	0.240	0.260	0.350	0.210
630	0.130	0.160	0.175	0.240	0.200	0.240	0.310	0.135	0.150	0.200	0.175	0.210	0.270	0.220	0.250	0.330	0.190
800	0.105	0.140	0.170	0.220	0.190	0.220	0.290	0.120	0.145	0.190	0.165	0.195	0.260	0.210	0.220	0.300	0.180
1000	0.080	0.120	0.160	0.200	0.170	0.210	0.270	0.105	0.140	0.175	0.150	0.180	0.240	0.195	0.195	0.280	0.160

Note: Spacings larger than one cable diameter will result in larger voltage drop

XLPE or XLEVA Insulated Cables Multi-core, Armoured

Multi-core Cables with XLEVA Insulation, Armoured, PVC Outer Sheath 600/1000V

Table XA2-A : Current-Carrying Capacity (Amp) [AL/XLPE/PVC/SWA/PVC or AL/MGT/XLPE/PVC/SWA/PVC-FR or AL/XLPE/LSOH/SWA/LSOH or AL/MGT/XLPE/LSOH/SWA/LSOH or AL/MGT/XLEVA/LSOH/SWA/LSOH]

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Ground parameters for cable buried in ground

1) Maximum conductor temperature : 90°C

2) Ground temperature : 15°C

3) Air temperature : 30°C

4) Soil thermal resistivity : 1.2 K. m/W

5) Laying depth in ground : 0.5 meter

Conductor Cross Sectional Area	Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in ground)		Reference Method D (in ducting in ground)	
	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.	one 2-cores cable, single-phase a.c. or d.c.	one 3-cores or one 4-cores cable, three-phase a.c.
1	2	3	4	5	6	7	8	9
(mm ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
16	82	71	85	74	106.5	88.5	85.11	70.72
25	108	92	112	98	135.0	112.5	107.88	89.90
35	132	113	138	120	162.0	135.0	129.46	107.88
50	159	137	166	145	192.0	159.0	153.43	127.06
70	201	174	211	185	236.9	195.0	189.40	155.83
95	242	214	254	224	278.9	231.0	222.96	184.60
120	-	249	-	264	-	260.9	-	208.57
150	-	284	-	305	-	295.4	-	236.14
185	-	328	-	350	-	329.9	-	263.71
240	-	386	-	418	-	379.4	-	303.27
300	-	441	-	488	-	428.9	-	342.83
400	-	522	-	551	-	574.4	-	459.10

Table XA2-B : Voltage Drop (Per Amp Per Meter) [AL/XLPE/PVC/SWA/PVC or AL/MGT/XLPE/PVC/SWA/PVC-FR or AL/XLPE/LSOH/SWA/LSOH or AL/MGT/XLPE/LSOH/SWA/LSOH or AL/MGT/XLEVA/LSOH/SWA/LSOH]

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Conductor Cross Sectional Area	2-cores cable, d.c.	2-cores cable, single-phase a.c.			3-cores or 4-cores cable, three-phase a.c.		
1	2	3			4		
(mm ²)	(mV/A/m)	(mV/A/m)			(mV/A/m)		
16	4.8		4.8			4.2	
		r	x	z	r	x	z
25	3.10	3.100	0.165	3.100	2.700	0.140	2.700
35	2.20	2.200	0.160	2.200	1.900	0.140	1.950
50	1.60	1.650	0.160	1.650	1.400	0.135	1.450
70	1.10	1.100	0.155	1.150	0.960	0.135	0.970
95	0.82	0.820	0.150	0.840	0.710	0.130	0.720
120	-	-	-	-	0.560	0.130	0.580
150	-	-	-	-	0.450	0.130	0.470
185	-	-	-	-	0.370	0.130	0.390
240	-	-	-	-	0.280	0.125	0.310
300	-	-	-	-	0.230	0.125	0.260
400	-	-	-	-	0.185	0.099	0.210

CURRENT CARRYING CAPACITY

The current carrying capacity given in this catalogue based on the condition shown below:

Table 1 : Condition For Current Carrying Capacity

Ambient Temperature	30°C
Ground Temperature	15°C
Soil Thermal Resistivity	1.2 km/W
Depth of Laying	0.5 m
Phase	3-phase a.c.
Frequency	50 Hz
Load Factor	100%

Table 2 : Rating Factors For Ambient Air Temperatures

Temperature (°C)	25	30	35	40	45	50	55
70°C Thermoplastics	1.03	1.00	0.94	0.87	0.79	0.71	0.61
90°C Thermosetting	1.02	1.00	0.96	0.91	0.87	0.82	0.76

Table 3 : Rating Factors For Ambient Ground Temperatures

Temperature (°C)	10	15	20	25	30	35	40	45	50
70°C Thermoplastics	1.05	1.00	0.95	0.90	0.85	0.80	0.73	0.68	0.60
90°C Thermosetting	1.03	1.00	0.96	0.92	0.89	0.86	0.82	0.77	0.73

Table 4 : Rating Factors For Soil Thermal Resistivity For Buried Cables

Thermal Resistivity (K.m/W)	0.5	0.8	1	1.2	1.5	2	2.5	3
Buried In Duct	1.13	1.06	1.04	1.00	0.97	0.93	0.88	0.85
Direct Buried	1.34	1.16	1.07	1.00	0.91	0.80	0.71	0.64

Table 5 : Rating Factors For Depth For Buried Cables (up to 1kV)

Depth (m)	0.5	0.7	1	1.25	1.5	1.75	2	2.5	3
Buried In Duct	1.00	0.98	0.96	0.94	0.93	0.92	0.91	0.90	0.89
Direct Buried	1.00	0.97	0.94	0.92	0.91	0.90	0.89	0.87	0.86

Table 6 : Rating Factors For Depth For Buried Cables (1.9/3.3kV or 1.8/3kV)

Depth (m)	0.5	0.7	1	1.25	1.5	1.75	2	2.5	3
Buried In Duct	1.00	1.00	0.98	0.96	0.95	0.94	0.92	0.91	0.90
Direct Buried	1.00	1.00	0.97	0.95	0.94	0.92	0.90	0.89	0.88

Table 7 : Flexible Conductors (Class 5)

Cables Size	Current-carrying capacity	Voltage drop
≤ 16 mm ²	0.95	1.10
≥ 25 mm ²	0.97	1.06

Table 8 : Min. Bending Radius (mm)

To install the cables safely without damaging the electrical and physical properties of the cables, the tabulated minimum bending radius must be

Type of Product	Construction	Overall Dia. (mm)	Min Bending Radius (mm)
PVC Insulated Power / Control Cables	Non Armoured	Any	8D
	Armoured	Any	10D
XLPE (or LSOH) Insulated Power / Control Cable	Non Armoured	Any	8D
	Armoured	Any	10D
Fire Resistant Cables	Non Armoured	Any	10D
	Armoured	Any	10D

Note: D means the overall diameter of cable (mm)

APPENDIX A

Technical Data Rating Factors for Other Temperature Conditions

Table 9 : Correction Factors for Ambient Temperatures & Group Installation

Correction for groups of more than one circuit of single-core cables, or more than one multi-core cables

Reference Methods of Installation		Correction Factor (Cg)													
		Number of Circuits or Multi-Core Cables													
		2	3	4	5	6	7	8	9	10	12	14	16	18	20
enclosed (Method 3 or 4) or bunched and clipped to a non-metallic surface (Method 1)		0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38
single layer clipped to a non-metallic surface (Method 1)	Touching	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-	-	-	-
	Spaced*	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
single layer multi-core on a perforated metal cable tray, vertical or horizontal (Method 11)	Touching	0.86	0.81	0.77	0.75	0.74	0.73	0.73	0.72	0.71	0.70	-	-	-	-
	Spaced*	0.91	0.89	0.88	0.87	0.87	-	-	-	-	-	-	-	-	-
single layer single-core on a perforated metal cable tray, touching (Method 11)	Horizontal	0.90	0.85	-	-	-	-	-	-	-	-	-	-	-	-
	Vertical	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-
single layer multi-core touching on ladder support		0.86	0.82	0.80	0.79	0.78	0.78	0.78	0.77	-	-	-	-	-	-

Space means a clearance between adjacent surfaces of at least one cable diameter (De.) Where the horizontal clearance between adjacent cables exceeds 2 De, no correction factor need to be applied.

Note : 1. The factors in the table are applicable to a group of cables all of the same sizes. The value of the current derived from application of the appropriate factors is the maximum continuous current to be carried by any of the cables in the group.

2. If, due to known operating conditions, a cable is expected to carry not more than 30% of it's grouped rating, it may be ignored for the purpose of obtaining the rating factor for the rest of the group.

For example, a group of N loaded cables would normally require a group reduction factor of Cg applied to the tabulated Lt. However if M cables in the group carry loads which are not greater than 0.3Cg Lt. amperes, the other cables can be sized by using the group rating factor corresponding to (N-M) cables.

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Strive to power up everyone's life

HQ & Factory

RM1229-A, KAWASAN PERINDUSTRIAN REMBIA
78000 ALOR GAJAH, MELAKA
TEL : +606 - 316 1111 FAX : +606 - 316 2888

KL Branch

B-2-19 BLOCK B OASIS SQUARE,
JALAN PJU 1A/7A ARA DAMANSARA,
47301 PETALING JAYA, SELANGOR
TEL : +603 - 7734 1812 FAX : +603 - 2719 3167

Sarawak Branch

2nd FLOOR, LOT 7691 BLOCK 16 (NEW LOT 11989)
28 BRIGHTON SQUARE, JALAN SONG, 93350 KUCHING SARAWAK

Email : sales@mastertec.my

www.mastertec-wirecable.com