



PVC INSULATED CABLES FOR ELECTRIC POWER AND LIGHTING

Single core ; 450 / 750V ; MS 136 / BS 6004
Copper Cable ; CU / PVC

Conductor		Insulation Thickness	Overall Diameter (Upper Limit)	Max Conductor Resistance at 20°C	Approx. Weight
Cross-Sectional Area	No. / Wire Diameters				
mm ²	No./mm	mm	mm	Ω/km	kg/mm
1.5	7/0.53	0.7	3.0	12.1	22
2.5	7/0.67	0.8	3.6	7.41	32
4	7/0.85	0.8	4.2	4.61	49
6	7/1.04	0.8	4.8	3.08	69
10	7/1.35	1.0	6.1	1.83	116
16	7/1.70	1.0	7.3	1.15	179
25	7/2.14	1.2	9.0	0.727	280
35	19/1.53	1.2	10.1	0.524	380
50	19/1.78	1.4	11.8	0.387	515
70	19/2.14	1.4	13.6	0.268	727
95	19/2.52	1.6	16.0	0.193	1004
120	37/2.03	1.6	17.6	0.153	1250
150	37/2.25	1.8	19.7	0.124	1538
185	37/2.52	2.0	22.0	0.0991	1935

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PVC INSULATED, PVC SHEATHED CABLES
For ELECTRIC POWER AND LIGHTING

Single Core; 300 / 500V; MS 136 / BS 6004
 Copper Cable; CU / PVC / PVC

Nominal Cross-Sectional Area of Conductor	Number / Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net Weight
mm	No./mm	mm	mm	mm	kg/mm
1.0mm ²	1/1.13	0.6	0.8	4.2	27
1.5mm ²	1/1.38	0.7	0.8	4.6	36
1.5mm ²	7/0.53	0.7	0.8	4.8	38
2.5mm ²	7/0.67	0.8	0.8	5.4	53
4mm ²	7/0.85	0.8	0.9	6.2	75
6mm ²	7/1.04	0.8	0.9	6.8	100
10mm ²	7/1.35	1.0	0.9	8.1	155
16mm ²	7/1.70	1.0	1.0	9.4	225
25mm ²	7/2.14	1.2	1.1	11.4	340
35mm ²	19/1.53	1.2	1.1	12.6	440

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PVC INSULATED, NON SHEATHED CABLES
For INTERNAL WIRING CABLES

Single Core; 300 / 500V; MS 136 / BS 6004
 Copper Cable; CU / PVC

Nominal Cross-Sectional Area of Conductor	Number / Diameter of Wires	Thickness of Insulation	Approx. Overall Diameter	Approx. Net Weight
mm	No./mm	mm	mm	kg/mm
0.5	1/0.80	0.6	2.2	9.4
0.75	1/0.98	0.6	2.4	12
1.0	7/1.13	0.6	2.5	15



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PVC INSULATED CABLE FOR ELECTRIC POWER AND LIGHTING

PVC Insulated, PVC Sheathed;
Multi Core ; 300 / 500V ; MS 136 / BS 6004
Copper Cable ; CU / PVC / PVC

No. of Core	Nominal Cross-Sectional Area	Number / Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net Weight
	mm	No./mm	mm	mm	mm	kg/mm
2	1.0	1/1.13	0.6	1.2	7.4	80
	1.5	1/1.38	0.7	1.2	8.5	100
	1.5	7/0.53	0.7	1.2	8.9	110
	2.5	7/0.67	0.8	1.2	10.1	140
	4.0	7/0.85	0.8	1.2	11.2	200
	6.0	7/1.04	0.8	1.2	12.3	260
	10.0	7/1.35	1.0	1.4	15.4	420
3	1.0	1/1.13	0.6	1.2	7.8	93
	1.5	1/1.38	0.7	1.2	8.9	120
	1.5	7/0.53	0.7	1.2	9.4	130
	2.5	7/0.67	0.8	1.2	10.7	180
	4.0	7/0.85	0.8	1.2	11.9	250
	6.0	7/1.04	0.8	1.2	13.5	320
	10.0	7/1.35	1.0	1.4	16.3	530
4	1.0	1/1.13	0.6	1.2	8.4	112
	1.5	1/1.38	0.7	1.2	9.7	150
	1.5	7/0.53	0.7	1.2	10.2	160
	2.5	7/0.67	0.8	1.2	11.7	220
	4.0	7/0.85	0.8	1.2	13.4	320
	6.0	7/1.04	0.8	1.2	14.7	430
	10.0	7/1.35	1.0	1.4	18.0	670
5	1.0	1/1.13	0.6	1.2	9.1	134
	1.5	1/1.38	0.7	1.2	10.2	180
	1.5	7/0.53	0.7	1.2	11	197
	2.5	7/0.67	0.8	1.2	12.8	250
	4.0	7/0.85	0.8	1.2	14.6	390
	6.0	7/1.04	0.8	1.2	16	520
	10.0	7/1.35	1.0	1.4	19.8	820



AUTOMOBILES CABLES, PVC INSULATED

Automotive Cable 600V AV

Single Core ; Copper Cable ; CU / PVC

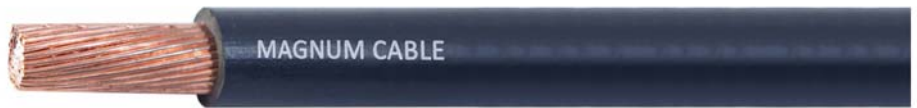
Cross-Sectional Area	Conductor		Insulation		Suggest Working Voltage	STD Length
	No. / Wire Dia.	Nom. Dia.	Thickness	Nom. Dia.		
mm ²	No./mm	mm	mm	mm	V	M
0.75	14/0.26	1.15	0.8	2.75	600	30 / 100
1.5	28/0.26	1.6	0.8	3.2	600	30 / 100
1.85	35/0.26	1.78	0.8	3.4	600	30 / 100
2.4	44/0.26	2.0	0.8	3.6	600	30 / 100
3.5	65/0.26	2.42	1.0	4.4	600	30 / 100

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Automotive Cable 600V AVSS

Single Core ; Copper Cable ; CU / PVC

Conductor Cross-Sectional Area	No. / Wire Diameter	Norminal Conductor Diameter	Insulation		Overall Diameter		Max. Conductor Resistance at 20°C
			Standard	Minimum	Standard	Maximum	
mm ²	No./mm	mm	mm	mm	mm	mm	Ω / KM
0.3	7/0.26	0.8	0.3	0.24	1.4	1.5	50.2
0.3 <i>f</i>	19/0.16	0.8	0.3	0.24	1.4	1.5	48.8
0.5	7/0.32	0.98	0.3	0.24	1.6	1.7	32.7
0.75 <i>f</i>	19/0.23	1.15	0.3	0.24	1.8	1.9	23.8
0.85	19/0.24	1.2	0.3	0.24	1.8	1.9	21.7
1.25	19/0.29	1.45	0.3	0.24	2.1	2.2	14.0
2.0	37/0.26	1.3	0.4	0.32	2.1	2.7	9.5



BATTERY CABLES, PVC INSULATED

Single Core ; Copper Cable ; CU / PVC

Cross-Sectional Area	Conductor		Insulation		Suggest Working Voltage	STD Length
	No. / Wire Dia.	Nom. Dia.	Thickness	Nom. Dia.		
mm ²	No./mm	mm	mm	mm	V	M
25	37/0.90	6.40	1.6	9.6	60	30
40	61/0.90	8.20	1.7	11.6	100	30
60	61/1.10	10.1	1.9	13.9	150	30

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WELDING CABLES, PVC INSULATED

Single Core ; Copper Cable ; CU / PVC

Nominal Cross- Sectional Area	No. / Wire Diameter	Insulation Thickness	Overall Diameter	
			Lower limit	Upper Limit
mm ²	No./mm	mm	mm	mm
16	513 / 0.20	2.0	9.0	11.0
25	783 / 0.20	2.0	10.5	12.5
35	1107 / 0.20	2.0	11.9	13.9
50	1566 / 0.20	2.0	13.8	16.2
70	2214 / 0.20	2.4	16.0	18.6
95	2997 / 0.20	2.6	17.3	21.1



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FLEXIBLE CABLES - PVC INSULATED, PVC SHEATHED

For INDOOR ELECTRICAL APPLIANCES AND INSTRUMENTS

1. Circular cords, Two , Three or Four Cores Twisted together and PVC Sheathed

250 / 440V ; BS 2004

Copper Cable ; CU / PVC / PVC

No. of Core	Nominal Cross-Sectional Area	Number / Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max DC Resistance at 20°C
	mm ²	No./mm	mm	mm	mm	Ω / KM
2	0.4	14/0.193	0.63	1.02	6.55	45.06
3	0.4	14/0.193	0.63	1.02	6.88	45.06
4	0.4	14/0.193	0.63	1.02	7.44	45.06

2	0.67	23/0.193	0.63	1.02	7.16	27.42
3	0.67	23/0.193	0.63	1.02	7.54	27.42
4	0.67	23/0.193	0.63	1.02	8.18	27.42

2	1.17	40/0.193	0.63	1.02	7.72	15.76
3	1.17	40/0.193	0.63	1.02	8.15	15.76
4	1.17	40/0.193	0.63	1.02	9.37	15.76

2	2.05	70/0.193	0.63	1.27	9.20	9.01
3	2.05	70/0.193	0.63	1.27	9.70	9.01
4	2.05	70/0.193	0.63	1.27	10.54	9.01

2	3.22	110/0.193	0.63	1.27	10.00	5.74
3	3.22	110/0.193	0.63	1.27	10.55	5.74
4	3.22	110/0.193	0.63	1.27	11.51	5.74

2	4.74	162/0.193	0.76	1.27	11.54	3.89
3	4.74	162/0.193	0.76	1.27	12.22	3.89
4	4.74	162/0.193	0.76	1.27	13.46	3.89



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2. Circular Cords, Two, Three or Four Cores Twisted together and PVC Sheathed

Copper Cable ; CU / PVC / PVC

No. of Core	Nominal Cross-Sectional Area	Number / Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max DC Resistance at 20°C
	mm ²	No./mm	mm	mm	mm	Ω / KM
2	0.50	16/0.20	0.50	0.60	5.40	39.00
3	0.50	16/0.20	0.50	0.60	5.70	39.00
2	0.75	24/0.20	0.50	0.60	5.70	26.00
3	0.75	24/0.20	0.50	0.60	6.10	26.00

3. Circular Cords, Two, Three or Four Cores Twisted together and PVC Sheathed

Copper Cable ; CU / PVC / PVC

No. of Core	Nominal Cross-Sectional Area	Number / Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max DC Resistance at 20°C
	mm ²	No./mm	mm	mm	mm	Ω / KM
2	0.5	16/0.20	0.6	0.8	6.00	39.0
3	0.5	16/0.20	0.6	0.8	6.50	39.0
2	0.75	24/0.20	0.6	0.8	6.60	26.0
3	0.75	24/0.20	0.6	0.8	6.90	26.0
2	1.0	32/0.20	0.6	0.8	6.90	19.5
3	1.0	32/0.20	0.6	0.8	7.40	19.5
2	1.25	40/0.20	0.7	0.8	7.60	15.6
3	1.25	40/0.20	0.7	0.9	8.50	15.6
2	1.5	30/0.25	0.7	0.8	7.80	13.3
3	1.5	30/0.25	0.7	0.9	8.70	13.3
2	2.5	50/0.25	0.8	1.0	9.60	7.98
3	2.5	50/0.25	0.8	1.1	10.50	7.98



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TELEPHONE CABLES - PVC INSULATED, PVC SHEATHED
For INDOOR / HOUSE TELEPHONE INSTALLATION

1 to 6 PR ; Copper Cable ; CU / PVC / PVC (Pair)

No. of Wire on pair	Conductor Diameter	Insulation Thickness	Insulation Diameter	Insulation Colours	Sheath Thickness	Sheath Overall Diameter	Max. Conductor Resistance at 20°C
	mm	mm	mm		mm	mm	Ω / KM
1 PR	0.5	0.25	1.0	White/Blue	0.8	3.60	96
3W	0.5	0.25	1.0	White/Blue/Green	0.8	3.60	96
2 PR	0.5	0.25	1.0	White/Blue White/Orange	1.0	5.34	96
3 PR	0.5	0.25	1.0	White/Blue White/Orange White/Green	1.0	5.6	96
4 PR	0.5	0.25	1.0	White/Blue White/Orange White/Green White/Brown	1.0	6.03	96
6 PR	0.5	0.25	1.0	White/Blue White/Orange White/Green White/Brown White/Grey Red/Blue	1.0	7.01	96
1 PR	0.63	0.25	1.13	White/Blue	0.8	6.03	60
3W	0.63	0.25	1.13	White/Blue/Green	0.8	7.01	60
2 PR	0.63	0.25	1.13	White/Blue White/Orange	1.0	5.77	60
3 PR	0.63	0.25	1.13	White/Blue White/Orange White/Green	1.0	6.07	60
4 PR	0.63	0.25	1.13	White/Blue White/Orange White/Green White/Brown	1.0	6.56	60
6 PR	0.63	0.25	1.13	White/Blue White/Orange White/Green White/Brown White/Grey Red/Blue	1.0	7.66	60



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FLEXIBLE CABLES - PVC INSULATED
For Fixed Protected Installation on or on Lighting Fitting and Inside Appliances, Switchgears and Control Gears, etc

450 / 750V ; MS 136 ; 600 / 1000V ; 70 °C ; BS 6231
300 / 500V ; 70 °C ; MS 140
Single Core ; Copper Cable ; CU / PVC

No. of Core	Nominal Area of Conductor	No. and Diameter of Wires	Thickness of Insulation	Mean Overall Diameter Upper Limit	Approx. Weight	Minimum Insulation Resistance at 70°C	Thickness of Insulation	Mean Overall Diameter Upper Limit	Approx. Weight	Minimum Insulation Resistance at 70°C / 90°C	Maximum Conductor Resistance at 20°C
No.	mm²	No./mm	mm	mm	kg / Km	Mohm-Km	mm	mm	kg / Km	Mohm-Km	ohm-Km
1			MS 140				BS 6231				
	0.5	16/0.20	0.6	2.5	10	0.013	0.8	3.0	12	0.0161	39.0
	0.75	24/0.20	0.6	2.7	13	0.011	0.8	3.2	15	0.0141	26.0
	1.0	32/0.20	0.6	2.8	15	0.01	0.8	3.4	18	0.0128	19.5
			MS 136				BS 6231				
	1.5	30/0.25	0.7	3.4	23	0.010	0.8	3.7	24	0.0111	13.3
	2.5	50/0.25	0.8	4.1	35	0.0095	0.8	4.2	35	0.0094	7.98
	4	56/0.30	0.8	4.8	51	0.0078	0.8	4.8	51	0.0077	4.95
	6	84/0.30	0.8	5.3	71	0.0068	0.8	6.3	71	0.0059	3.30
	10	80/0.40	1.0	6.8	120	0.0065	1.0	7.8	120	0.0058	1.91
	16	126/0.40	1.0	8.1	180	0.0053	1.0	9.0	180	0.0048	1.21
	25	196/0.40	1.2	10.2	280	0.0050	1.2	11.5	280	0.0047	0.780
	35	276/0.40	1.2	11.7	380	0.0043	1.2	13.0	380	0.0040	0.554
	50	396/0.40	1.4	13.9	540	0.0042	1.4	15.0	540	0.0039	0.386
	70	360/0.50	1.4	16.0	760	0.0036	1.4	17.5	760	0.0033	0.272
	95	475/0.50	1.6	18.2	1030	0.0036	1.6	19.5	1030	0.0032	0.206
	120	608/0.50	1.6	20.2	1280	0.0032	1.6	21.5	1280	0.0029	0.161
	150	756/0.50	1.8	22.5	1550	0.0032	1.8	24.0	1550	0.0029	0.129
	185	925/0.50	2.0	24.9	2000	0.0032	2.0	26.5	2000	0.0029	0.106
	240	1221/0.50	2.2	28.4	2500	0.0031	2.2	30.0	2500	0.0028	0.0801

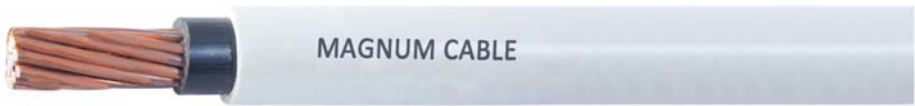


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PVC INSULATED, PVC SHEATHED NON ARMoured CABLE FOR ELECTRIC SUPPLY

Single Core ; 600 / 1000V ; MS 274 / BS 6346
Copper Cable ; CU / PVC / PVC

No. of Core	Conductor Size	Insulation		Cabling Diameter	Bedding		Amouring		Over-Sheath		Estimated Weight
		Thickness	Diameter		Thickness	Diameter	Thickness	Diameter	Thickness	Diameter	
	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
2	1.5	0.7	3.0	5.9	0.8	7.5	0.90	9.4	1.4	12.1	288
3	1.5	0.7	3.0	6.4	0.8	8.0	0.90	9.9	1.4	12.6	319
4	1.5	0.7	3.0	7.2	0.8	8.8	0.90	10.8	1.4	13.5	362
2	2.5	0.8	3.6	7.1	0.8	8.8	0.90	10.7	1.4	13.5	349
3	2.5	0.8	3.6	7.7	0.8	9.3	0.90	11.2	1.4	14.0	392
4	2.5	0.8	3.6	8.6	0.8	10.2	0.90	12.2	1.4	15.0	450
2	4.0	0.8	4.2	8.4	0.8	10.0	0.90	12.0	1.4	14.8	426
3	4.0	0.8	4.2	9.0	0.8	10.6	0.90	12.6	1.4	15.4	485
4	4.0	0.8	4.2	10.1	0.8	11.7	1.25	14.5	1.5	17.5	664
2	6.0	0.8	4.7	9.5	0.8	11.1	0.90	13.1	1.5	16.1	515
3	6.0	0.8	4.7	10.3	0.8	11.9	1.25	14.7	1.5	17.7	690
4	6.0	0.8	4.7	11.5	0.8	13.1	1.25	16.0	1.5	19.9	765
2	10.0	1.0	6.1	12.3	0.8	14.1	1.25	16.9	1.6	20.1	761
3	10.0	1.0	6.1	13.2	0.8	14.9	1.25	17.8	1.6	21.0	913
4	10.0	1.0	6.1	14.8	0.8	16.5	1.25	19.4	1.6	22.6	1083
2	16.0	1.0	7.1	14.4	0.8	16.1	1.25	18.9	1.6	22.1	952
3	16.0	1.0	7.1	15.5	0.8	17.2	1.25	20.1	1.6	23.3	1170
4	16.0	1.0	7.1	17.4	1.0	19.4	1.60	23.0	1.7	26.4	1587
2	25.0	1.2	8.6	17.6	1.0	19.6	1.60	23.2	1.7	26.6	1435
3	25.0	1.2	8.6	19.0	1.0	21.0	1.60	24.7	1.7	28.1	1770
4	25.0	1.2	8.6	21.2	1.0	23.2	1.60	27.0	1.8	30.6	2154



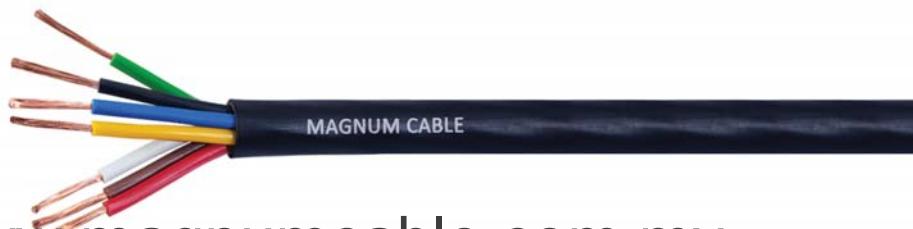
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PVC INSULATED, PVC SHEATHED NON ARMoured CABLES
For ELECTRIC SUPPLY

Multi Cores ; 600 / 1000V ; MS 274 / BS 6346
 Copper Cable ; CU / PVC / PVC

Cross-Sectional Area	Number / Wire Diameter	Thickness of Insulation	Approx. Insulation Diameter	Thickness of Sheath	Approx. Overall Diameter	Estimated Net Weight
mm ²	No./mm	mm	mm	mm	V	M
1.5mm ²	7/0.53	0.7	2.9	0.8	4.5	35
2.5mm ²	7/0.67	0.8	3.6	0.8	5.2	49
4.0mm ²	7/0.85	0.8	4.1	0.9	6.0	71
6.0mm ²	7/0.85	0.8	4.7	0.9	6.6	94
10mm ²	7/1.35	1.0	6.0	0.9	7.9	145
16mm ²	7/1.70	1.0	7.1	1.0	9.2	220
25mm ²	7/2.14	1.2	8.8	1.1	11.0	327
35mm ²	19/1.53	1.2	10.1	1.1	12.3	434
*50mm ²	19/1.78	1.4	11.7	1.4	14.5	595
*70mm ²	19/2.14	1.4	13.5	1.4	16.3	818
*95mm ²	19/2.52	1.6	15.8	1.5	19	1116

*INDICATES WIRE BASE ON MS 274 (600/1000V) SPEC.



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PVC INSULATED PVC SHEATHED CABLE

CONSTRUCTION

Conductor : Plain annealed copper
Insulation : General purpose PVC compound TI 1 70°C
Sheath : Black general purpose PVC compound TM1 70°C
Colour of cores : White with numbering

PVC INSULATED, PVC SHEATED NON-ARMOURED CABLE (MULTI CORE) AUXILIARY (BS 6004 & MS 136, 300/500V)

Number of Cores	Cross-Sectional Area	No. / Nominal Diameter of wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx Net Weight
	mm ²	mm	mm	mm	mm	kg / km
7	1.5	1/1.38	0.7	1.2	11.6	215
10				1.3	15.1	325
12				1.3	15.2	355
19				1.3	18.0	530
27				1.4	21.6	730
37				1.5	24.0	985
7	1.5	7/0.53	0.7	1.2	12.2	235
10				1.3	15.8	340
12				1.3	16.1	370
19				1.4	19.0	555
27				1.5	22.9	770
37				1.6	25.8	1030
7	2.5	1/1.78	0.8	1.3	13.2	315
10				1.4	17.0	440
12				1.4	17.0	500
19				1.5	20.6	760
27				1.6	25.5	1090
37				1.7	27.5	1440
7	2.5	7/0.67	0.8	1.3	13.7	330
10				1.4	17.8	460
12				1.4	18.0	535
19				1.5	21.5	800
27				1.6	26.0	1140
37				1.7	28.8	1500
7	4	7/0.85	0.8	1.4	16.0	515
10				1.4	20.2	680
12				1.5	20.8	800



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PVC INSULATED PVC SHEATHED ARMoured AUXILIARY CABLE

CONSTRUCTION

Conductor	:	Plain annealed copper
Insulation	:	General purpose PVC compound TI 1 70°C
Colour of cores	:	White with black numbering
Formation	:	Stranded together and the interstices may be filled with the sheathing compound. A non-hygroscopic binder tape may be applied over the laid-up cores.
Bedding	:	Black general purpose PVC compound TM1 70°C
Armour	:	Galvanised steel wire
Sheath	:	Black general purpose PVC compound TM1 70°C

PVC INSULATED, PVC SHEATHED ARMoured AUXILIARY CABLE (1.5MM²) (BS 6346 & MS 274, 600/1000V)

Number of cores	Conductor		Thickness of Insulation	Wire-armoured Cables				
	Nominal Area	No. / Nominal Diameter of wires		Thickness of extruded bedding	Nominal armour wire diameter	Thickness of oversheath	Approx Overall diameter	Approx cable weight
	mm ²	mm	mm	mm	mm	mm	mm	kg / km
5	1.5	1/1.38	0.6	0.8	0.9	1.4	13.8	357
7				0.8	0.9	1.4	14.5	416
10				0.8	1.25	1.5	18.1	446
12				0.8	1.25	1.5	18.6	716
19				0.8	1.25	1.6	21.1	938
27				1.0	1.6	1.7	25.4	1380
37				1.0	1.6	1.8	27.8	1689
48				1.0	1.6	1.8	30.8	2048
5	2.5	1/1.78	0.7	0.8	0.9	1.4	15.4	462
7				0.8	0.9	1.5	16.6	557
10				0.8	1.25	1.6	20.9	878
12				0.8	1.25	1.6	21.4	955
19				1.0	1.25	1.7	25.4	1444
27				1.0	1.6	1.8	29.3	1885
37				1.0	1.6	1.9	32.4	2340
48				1.2	2.0	2.0	37.5	3189



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PVC INSULATED PVC SHEATHED ARMoured AUXILIARY CABLE

CONSTRUCTION

Conductor	:	Plain annealed copper
Insulation	:	General purpose PVC compound TI 1 70°C
Colour of cores	:	White with black numbering
Formation	:	Stranded together and the interstices may be filled with the sheathing compound. A non-hygroscopic binder tape may be applied over the laid-up cores.
Bedding	:	Black general purpose PVC compound TM1 70°C
Armour	:	Galvanised steel wire
Sheath	:	Black general purpose PVC compound TM1 70°C

PVC INSULATED, PVC SHEATHED ARMoured AUXILIARY CABLE (1.5MM²) (BS 6346 & MS 274, 600/1000V)

Number of cores	Conductor		Thickness of Insulation	Wire-armoured Cables				
	Nominal Area	No. / Nominal Diameter of wires		Thickness of extruded bedding	Nominal armour wire diameter	Thickness of oversheath	Approx Overall diameter	Approx cable weight
	mm ²	mm	mm	mm	mm	mm	mm	kg / km
5	1.5	7/0.53	0.6	0.8	0.9	1.4	14.3	385
7				0.8	0.9	1.4	15.2	450
10				0.8	1.25	1.5	19.0	680
12				0.8	1.25	1.5	19.4	765
19				0.8	1.25	1.6	22.2	960
27				1.0	1.6	1.7	26.7	1440
37				1.0	1.6	1.8	29.2	1740
48				1.0	1.6	1.8	32.9	2110
5	2.5	7/0/67	0.7	0.8	0.9	1.5	16.3	500
7				0.8	0.9	1.5	18.0	605
10				0.8	1.25	1.6	21.9	930
12				0.8	1.25	1.6	22.4	1000
19				1.0	1.25	1.7	26.6	1570
27				1.0	1.6	1.8	30.7	2020
37				1.0	1.6	1.9	34.0	2490
48				1.2	2.0	2.1	39.5	3390
5	4	7/0.85	0.8	0.8	1.25	1.5	19.0	751
7				0.8	1.25	1.6	20.5	905
10				1.0	1.6	1.7	26.1	1403
12				1.0	1.6	1.7	26.8	1531
19				1.0	1.6	1.8	30.5	2062
27				1.2	2.0	2.0	37.1	3025



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PVC INSULATED BRAIDED PVC SHEATHED COAXIAL CABLE

CONSTRUCTION

Conductor : Plain annealed copper
 Insulation : Solid PE / foamed PE insulaCon
 Colour of cores : White / Natural
 Braiding : Bare / Tinned Copper wire braided
 Sheath : PVC Jacket / Grey

JAPAN STANDARD

Symbol Cores	Conductor	Thickness of Insulation	Screen	Thickness of Sheath	Approx Overall Diameter	Approx weight	Standard Attenuation (10MHz)	Maximum Conductor Resistance At 20°C
	No. / Nominal Diameter of wires		No. & Diameter of wires					
	No. / mm	mm	No. / mm	mm	mm	kg / km	dB / km	ohm / km
2.5C - 2V	1/0.40	1.0	16/6/0.12	0.5	4	25	52	145
3C - 2V	1/0.50	1.3	24/5/0.14	0.8	5.4	42	42	91.4
5C - 2V	1 / 0.80	2.05	24/7/0.14	0.9	7.4	74.0	27	35.9

PVC INSULATED BRAIDED PVC SHEATHED COAXIAL CABLE

CONSTRUCTION

Conductor : Plain annealed copper
 Insulation : Solid PE / foamed PE insulation
 Colour of cores : White / Natural
 Braiding : Bare / Tinned Copper wire braided
 Sheath : PVC Jacket / Grey

USA STANDARD

Type No.	Conductor		Diameter of Insulated Core	Screen		Outer Sheath Material	Approx Overall Diameter	Character- istic Impedance	Attenuation (300MHz)
	Material	No. & Diameter of wires		Material	Thickness of Sheath				
		No. / mm	mm		No. / mm		mm	Ω	dB / km
RG 6/U	ACU	1/0.727	4.7	ACU	16/9/0.16	NC/PVC	8.4	76	171
RG 11/U	TCU	7/0.404	7.24	ACU	24/8/0.18	PVC	10.3	75	139
RG 58A/U	TCU	19/0.180	2.95	TCU	16/8/0.127	PVC	4.95	50	315
RG 59/U	ACU	1/0.643	3.71	ACU	16/7/0.16	PVC	6.15	73	230
RG 213/U	ACU	7/0.752	7.24	ACU	24/8/0.18	NC/PVC	10.3	50	128



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PVC INSULATED SCREEN PVC SHEATHED SCREENED FLEXIBLE CABLES

CONSTRUCTION

Conductor : Plain annealed stranded, Class 5 Flexible Copper
Insulation : PVC
Screen : Layer of Polyester Tape Layer of Braided,
Annealed Tinned Copper Wires (CY)
Sheath : PVC / Grey

PVC INSULATED, BRAIDED, PVC SHEATED SCREENED FLEXIBLE CABLES (BS4066 / IEC 60332, 300/500V)

No. of Cores X Nominal Area of Conductor	Approx. Overall Diameter	Approx. Weight	No. of Cores X Nominal Area of Conductor	Approx. Overall Diameter	Approx. Weight
No. X mm ²	mm	kg / km	No. X mm ²	mm	kg / km
2 X 0.5	7.1	72	4 X 1.0	9.2	138
3 X 0.5	7.4	85	2 X 1.5	8.6	111
4 X 0.5	8	100	3 X 1.5	9	136
2 X 0.75	7.5	82	4 X 1.5	10	170
3 X 0.75	7.9	99	2 X 2.5	10.1	154
4 X 0.75	8.5	117	3 X 2.5	10.6	192
2 X 1.0	7.9	92	4 X 2.5	11.7	241
3 X 1.0	8.3	111			



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Two Cores Twisted together
 Twin Twist Cable ; CU / PVC

No. of Core	No. / Wires Diameter	Insulation Thickness	Approx. Overall Diameter	Colour
	No./mm	mm	mm	
2	10/0.12	0.70	1.84 X 3.70	Red / Black
2	14/0.12	0.75	2.02 X 4.04	Red / Black
2	25/0.12	0.80	2.30 X 4.60	Red / Black



Twin Flat Cables; CU / PVC
 Colour : White / White+Blue

No. of Core	No. / Wires Diameter	Insulation Thickness	Approx. Overall Diameter
	No./mm	mm	mm
2	23/0.14	0.85	2.48 X 4.75
2	20/0.18	0.90	2.73 X 5.26
2	30/0.18	1.00	3.14 X 6.08



PVC / PVC Flast Twin - VDE Cables
 Insulation : Blue / Brown
 Sheath : Black

No. of Core	No. / Wires Diameter	Insulation Thickness	Sheathing Thickness	Approx. Overall Diameter
	No./mm	mm	mm	mm
2	23/0.15	0.70	0.70	3.31 X 5.44



PVC INSULATION PVC SHEATHED TRUCK CABLE

CU / PVC / PVC ; 300/500V

No. of Core	No. / Wires Diameter	Insulation Thickness	Approx. Overall Diameter	Colour
	No./mm	mm	mm	
7	6X (30/0.18mm) + 1X (30/0.24mm)	0.70	10.60	Black

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PVC INSULATION PVC SHEATHED

CU / PVC / PVC ; 300/500V

No. of Core	No. / Wires Diameter	Insulation Thickness	Approx. Overall Diameter	Colour
	No./mm	mm	mm	
7	6X (30/0.18mm) + 1X (30/0.24mm)	0.70	10.60	Black



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PVC INSULATED PVC SHEATHED ARMoured CABLE -FOR ELECTRICITY SUPPLY

600/1000V MS274/BS6346

Conductor Size	Insulation		Cabling Diameter	Bedding		Amouring		Over-Sheath		Estimated Weight
	Thickness	Diameter		Thickness	Diameter	Wire Dia.	Diameter	Thickness	Diameter	
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
2C X 1.5mm ²	0.7	3.0	5.9	0.8	7.5	0.90	9.4	1.4	12.1	288
3C X 1.5mm ²	0.7	3.0	6.4	0.8	8.0	0.90	9.9	1.4	12.6	319
4C X 1.5mm ²	0.7	3.0	7.2	0.8	8.8	0.90	10.8	1.4	13.5	362
2C X 2.5mm ²	0.8	3.6	7.1	0.8	8.8	0.90	10.7	1.4	13.5	349
3C X 2.5mm ²	0.8	3.6	7.7	0.8	9.3	0.90	11.2	1.4	14	392
4C X 2.5mm ²	0.8	3.6	8.6	0.8	10.2	0.90	12.2	1.4	15.0	450
2C X 4.0mm ²	0.8	4.2	8.4	0.8	10.0	0.90	12.0	1.4	14.8	426
3C X 4.0mm ²	0.8	4.2	9	0.8	10.6	0.90	12.6	1.4	15.4	485
4C X 4.0mm ²	0.8	4.2	10.1	0.8	11.7	1.25	14.5	1.5	17.5	664
2C X 6.0mm ²	0.8	4.7	9.5	0.8	11.1	0.90	13.1	1.5	16.1	515
3C X 6.0mm ²	0.8	4.7	10.3	0.8	11.9	1.25	14.7	1.5	17.7	690
4C X 6.0mm ²	0.8	4.7	11.5	0.8	13.1	1.25	16.0	1.5	19.9	765
2C X 10mm ²	1.0	6.1	12.3	0.8	14.1	1.25	16.9	1.6	20.1	761
3C X 10mm ²	1.0	6.1	13.2	0.8	14.9	1.25	17.8	1.6	21	913
4C X 10mm ²	1.0	6.1	14.8	0.8	16.5	1.25	19.4	1.6	22.6	1083
2C X 16mm ²	1.0	7.1	14.4	0.8	16.1	1.25	18.9	1.6	22.1	952
3C X 16mm ²	1.0	7.1	15.5	0.8	17.2	1.25	20.1	1.6	23.3	1170
4C X 16mm ²	1.0	7.1	17.4	1.0	19.4	1.60	23.0	1.7	26.4	1587
2C X 16mm ²	1.2	8.6	17.6	1.0	19.6	1.60	23.2	1.7	26.6	1435
3C X 16mm ²	1.2	8.6	19	1.0	21.0	1.60	24.7	1.7	28.1	1770
4C X 16mm ²	1.2	8.6	21.2	1.0	23.2	1.60	27.0	1.8	30.6	2154

PRODUCT CERTIFICATION LICENCE



No Lesen : **PS111101**

Licence No :

LESEN PENSIJILAN BARANGAN

Product Certification Licence



SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

SHIFONG ALLOY WIRE SDN BHD
NO. 5, JALAN TP 4
TAMAN PERINDUSTRIAN BUKIT RAMBAI, FASA 6
75250 MELAKA TENGAH
MELAKA MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

PVC INSULATED CABLES (NON-ARMoured) FOR ELECTRIC POWER AND LIGHTING

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with
MS 136 : 1995

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Khalidah Mustafa

Khalidah Mustafa
Pengarah Urusan
Managing Director
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466

<http://www.sirim.com.my>
<http://www.malaysiancertified.com.my>

Tarikh Mula Pensijilan : 01 April 2011
Certified Since
Sah Sehingga : 01 April 2013
Valid Until

Tarikh Dikeluarkan : 31 July 2012
Issue Date
No Siri : 002390
Serial No

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

PRODUCT CERTIFICATION LICENCE



No Lesen : **PS111101**
Licence No :

SCHEDULE

SHIFONG ALLOY WIRE SDN BHD



Brand : MAGNUM CABLE
Model : PVC-INSULATED, NON-SHEATHED GENERAL PURPOSE CABLES, RIGID
CONDUCTOR, ANNEALED COPPER CONDUCTOR, CLASS 2 STRANDED
CONDUCTOR, SINGLE CORE (1.5, 2.5, 4, 6, 10, 16) MM²
Rating : 450/750V

End of page

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SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
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Tarikh Mula Pensijilan : 01 April 2011
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Sah Sehingga : 01 April 2013
Valid Until

Tarikh Dikeluarkan : 31 July 2012
Issue Date
No Siri : 002390
Serial No

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This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

CERTIFICATE OF APPROVAL



Salinan Penerima

ST(H)15-Pin. 2/94

SJT161303014402012

No Resit : 120305IKE01209
Tkh Resit: 05-Mar-2012

Borang W
(Peraturan 97)
SURUHANJAYA TENAGA
AKTA BEKALAN ELEKTRIK 1990

AppID : SJT1612012001811
Ruj Kami : 6012314/KK1447/11
No. Fail :

PERAKUAN KELULUSAN

Mengikut peraturan 97 Peraturan-peraturan Elektrik 1994, Perakuan ini dikeluarkan kepada

SHIFONG ALLOY WIRE SDN BHD
(nama pengimport)

yang beralamat di

NO 5, JLN TP 4, TMN PERINDUSTRIAN
BUKIT RAMBAI, FASA 6 75250, MELAKA
(alamat)

dan kelulusan diberikan untuk

MENGILANG	MEMPAMER ¹	MENJUAL	MENGIKAN
-----------	-----------------------	---------	----------

kelengkapan yang perihalnya dinyatakan di bawah ini, terus daripada,

- **SEPERTI LAMPIRAN A** -

(nama dan negara pengilang)

dan kelengkapan itu mematuhi :

(a) Standard : - **SEPERTI LAMPIRAN A** -

(b) Laporan Ujian Jenis No : - **SEPERTI LAMPIRAN A** -

Perakuan ini dikeluarkan berdasarkan "Peraturan 97" yang ditetapkan di bawah

tertakluk kepada syarat-syarat berikut:

- **SEPERTI LAMPIRAN B** -

Tarikh dikeluarkan/ diperbaharui * : 17-Mar-2012

Tarikh Habis Tempoh : 16-Mar-2013

Kelulusan No. : **6 MODEL SAHAJA .**
SEPERTI LAMPIRAN YANG
DISAHKAN OLEH ST

Fee RM : 100.00

Perihalan Kelengkapan

Kelengkapan : PVC -INSULATED CABLE (NON-ARMoured) FOR
ELECTRIC POWER AND LIGHTING
Nama Dagangan : MAGNUM CABLE SDN BHD

Spesifikasi Kelengkapan

- **SEPERTI LAMPIRAN A** -


Suruhanjaya Tenaga
Ir. FAIRUS BINTI ABD. MANAF
Jabatan Keselamatan Elektrik
Suruhanjaya Tenaga
kartini

1. Kelengkapan yang diluluskan adalah dicadangkan nianya untuk dipamerkan dan bukan dijual, dipasang atau digunakan.
* Potong yang mana tak berkenaan.

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CERTIFICATE OF APPROVAL



Salinan Penerima

LAMPIRAN A

No. Resit : 120305IKE01209 Ruj Kami : 6012314/KK1447/11 No. Perakuan : SJT161303014402012
 Tkh Resit : 05-Mar-2012 No. Fail : ApplD : SJT1612012001811
 Nama Kelengkapan : MAGNUM CABLE SDN BHD PVC -INSULATED CABLE (NON-ARMOURED) FOR ELECTRIC
 POWER AND LIGHTING
 Negara Pengilang : MYS - MALAYSIA
 No. Piawaian : MS 136:1995MS 69:1995MS 138:1995

Bil.	Jenis / Model	NoKelulusan	Fasa	Kuasa (Watt)	Arus (Amp)	Voltan (Volt)	Frikuensi (Hz)	Laporan Ujian Jenis
1	1 CORE X 1.5MM2	002626/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009
2	1 CORE X 2.5MM2	002627/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009
3	1 CORE X 4.0MM2	002628/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009
4	1 CORE X 6.0MM2	002629/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009
5	1 CORE X 10.0MM2	002630/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009
6	1 CORE X 16.0MM2	002631/11	1	-	-	450/750	-	SIRIM QAS T/R SIRIM 2009EL0147 Test Date : 23-Feb-2009

6 Jenis Kelengkapan Sahaja.

Suruhanjaya Tenaga

Ir. FAIRUS BINTI ABD. MANAF
Ketua Unit Kelengkapan
Jabatan Keselamatan Elektrik
Suruhanjaya Tenaga

Perakuan Kelulusan

CERTIFICATE OF APPROVAL



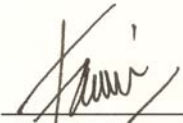
Salinan Penerima

LAMPIRAN B

No. Perakuan : SJT161303014402012
ApplID : SJT1612012001811

Syarat-Syarat :

- i) Kelengkapan ini hendaklah melalui Skim Pengesahan Barangan SIRIM;
- ii) Kelengkapan hendaklah dilekatkan dengan label yang dikeluarkan oleh SIRIM; dan
- iii) Permohonan pembaharuan Perakuan Kelulusan berserta dengan bayaran hendaklah dibuat tidak kurang dari empat belas (14) hari dari tarikh habis tempoh Perakuan (Peraturan 106, Peraturan-Peraturan Elektrik (Pindaan) 2003).



Suruhanjaya Tenaga

Ir. FAIRUS BINTI ABD. MANAF
Ketua Unit Kelengkapan
Jabatan Keselamatan Elektrik
Suruhanjaya Tenaga

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Perakuan Kelulusan

INSTRUMENT CABLES (MULTIPAIR - ARMoured)

(Individual & Overall Screened)(IS-OS)

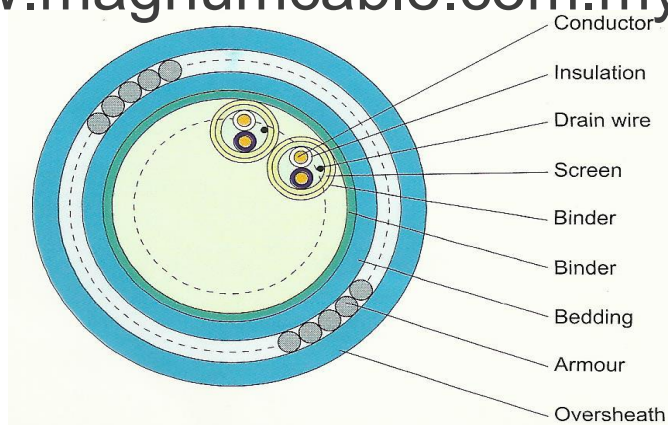
Standard: BS EN 50288-7, IEC 332-3

Type: Cu/XLPE/PVC/SWA/PVC Sheathed

Rate: 300-500V

Conductor	No of Pair	Insulation thickness Nom. (mm)	XLPE/IS-OS/PVC/SWA/PVC-FRT-UV					
			Bedding Thickness Nom. (mm)	Diameter Over Bedding Approx. (mm)	Armour Wire Diameter Nom. (mm)	Sheath Thickness Nom. (mm)	Overall Diameter Approx. (mm)	Weight Approx. (kg/km)
1.0mm ² (7/0.43mm)	2	0.6	1.2	12.7	1.25	1.5	18	575
	3		1.2	13.4	1.25	1.5	19	635
	5		1.2	16.2	1.25	1.6	22	810
	10		1.3	23.0	1.60	1.8	30	1455
	15		1.5	26.2	1.60	1.9	33	1780
1.5mm ² (7/0.53mm)	2	0.6	1.2	13.8	1.25	1.6	19.5	650
	3		1.2	14.7	1.25	1.6	20.5	720
	5		1.3	18.0	1.60	1.7	24.5	1090
	10		1.5	25.8	1.60	1.9	33	1730
	15		1.7	29.3	2.00	2.0	37.5	2385

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INSTRUMENT CABLES (MULTIPAIR - ARMOURED)

(Overall Screened)(OSCR)

Standard: BS EN 50288-7, IEC 332-3

Type: Cu/XLPE/PVC/SWA/PVC Sheathed

Rate: 300-500V

Conductor	No of Pair	Insulation thickness Nom. (mm)	XLPE/OS/PVC/SWA/PVC-FRT-UV					
			Bedding Thickness Nom. (mm)	Diameter Over Bedding Approx. (mm)	Armour Wire Diameter Nom. (mm)	Sheath Thickness Nom. (mm)	Overall Diameter Approx. (mm)	Weight Approx. (kg/km)
1.0mm ² (7/0.43mm)	1	0.6	0.8	6.7	0.90	1.3	11	245
	2		0.8	7.8	0.90	1.4	12.5	305
	3		1.1	11.2	0.90	1.5	16	465
	5		1.2	14.0	1.25	1.5	19.5	715
	10		1.3	18.9	1.60	1.7	25.5	1245
	15		1.3	22.5	1.60	1.8	29.5	1585
1.5mm ² (7/0.53mm)	1	0.6	0.8	7.3	0.90	1.4	12	280
	2		0.9	8.7	0.90	1.4	13.5	355
	3		1.2	12.5	1.25	1.5	18	630
	5		1.2	15.4	1.25	1.6	21	840
			1.3	20.9	1.60	1.8	27.5	1465
	10		1.5	25.3	1.60	1.9	32.5	1940

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