



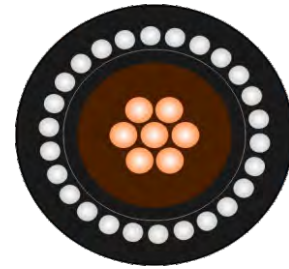
LV Armoured Cable SWA & AWA

Good quality & Good service based on reasonable prices.

- + OEM customized production according to your requirements.
- + Standardized products and services according to our own brand.



CU/XLPE/PVC/AWA/PVC 0.6/1KV Cable



Application:

General single core PVC cable with aluminium wire armour(AWA) control / power cable for fixed wiring arrangements and power networks. Suitable for underground, indoor and outdoor use in cable ducting.

Cable Standards:

- Flame propagation to BS EN 60332-1-2
- BS5467
- IEC/EN 60228

Product Description:

Conductor	Stranded Plain Annealed Circular Copper Conductor
Insulation	Cross Linked Polyethylene (XLPE)
Bedding	PVC
Armour	Aluminium Wire
Sheath	PVC

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	-15°C to +90°C

Core Identification:

Brown Inner	
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Should not be installed at temperatures below 0°C or above +60°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Halogen free
Yes



Rated Voltage Uo/U (Um)
0.6/1 kV



Max. conductor temp.in service
90 °C



Flame retardant
Yes



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Brass A Ω	Nylon A Ω	Nylon Cleat	Trefoil Cleat
7150150	50	19/1.78	1	638	17.70	20	25	0.7	-
7150170	70	19/2.14	1	891	19.60	25	32	0.8	-
7150195	95	19/2.52	1	1166	21.50	25	32	0.9	-
71501120	120	37/2.03	1	1412	23.10	25	32	1.0	-
71501150	150	37/2.25	1	1800	26.00	32	40	1.1	-
71501185	185	37/2.52	1	2200	28.00	32	40	1.2	TASB04
71501240	240	61/2.25	1	2800	32.00	40	50S	1.4	TASB06
71501300	300	61/2.52	1	3400	33.00	40	50S	1.4	TASB06
71501400	400	61/2.85	1	4450	38.00	40	50	1.6	TASB10
71501500	500	61/3.2	1	5550	43.00	50S	63S	1.8	TASB13
71501630	630	127/2.52	1	7100	47.00	50	63S	2.0	TASB15
71501800	800	127/2.85	1	9200	55.00	63S	75S	TC9	TASB20
715011000	1000	127/3.2	1	11270	58.80	63S	75S	TC10	TASB20

Current Carrying Capacity:

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR CROSS-SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)						REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)					
	TOUCHING			TOUCHING			SPACED BY ONE DIAMETER					
	2 CABLES, SINGLE-PHASE AC OR DC FLAT	3 OR 4 CABLES, 3 PHASE AC FLAT	2 CABLES, SINGLE-PHASE AC OR DC FLAT	3 CABLES, 3 PHASE AC FLAT	3 CABLES, THREE-PHASE AC TREFOIL	2 CABLES DC		2 CABLES, SINGLE PHASE AC		3 OR 4 CABLES, THREE-PHASE AC FLAT		
						HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	
1	2	3	4	5	6	7	8	9	10	11	12	
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	
50	237	220	253	232	222	284	270	282	266	288	266	
70	303	277	322	293	285	356	349	357	337	358	331	
95	367	333	389	352	346	446	426	436	412	425	393	
120	425	383	449	405	402	519	497	504	477	485	449	
150	488	437	516	462	463	600	575	566	539	549	510	
185	557	496	587	524	529	688	660	643	614	618	574	
240	656	579	689	612	625	815	782	749	714	715	666	
300	755	662	792	700	720	943	906	842	805	810	755	
400	853	717	899	767	815	1137	1094	929	889	848	797	
500	962	791	1016	851	918	1314	1266	1032	989	923	871	
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940	
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978	
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041	



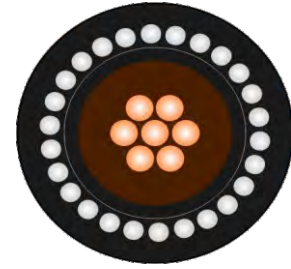
Voltage Drop

CONDUCTOR CROSS – SECTIONAL AREA MM ²	2 CABLES DC	REFERENCE METHODS C AND F (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)														
		2 CABLES SINGLE PASS AC						3 OR 4 CABLES THREE PHASE AC								
		TOUCHING			SPACED			TREFOIL / TOUCHING			FLAT / TOUCHING			FLAT / SPACED		
		R	X	Z	R	X	Z	R	X	Z	R	X	Z	R	X	Z
50	0.980	0.990	0.210	1.000	0.980	0.290	1.000	0.86	0.180	0.870	0.840	0.250	0.880	0.840	0.330	0.90
70	0.670	0.680	0.200	0.710	0.690	0.290	0.750	0.59	0.170	0.620	0.600	0.250	0.650	0.620	0.320	0.70
95	0.490	0.510	0.195	0.550	0.530	0.280	0.600	0.44	0.170	0.470	0.460	0.240	0.52	0.490	0.310	0.58
120	0.390	0.410	0.190	0.450	0.430	0.270	0.51	0.35	0.165	0.390	0.380	0.240	0.440	0.410	0.300	0.51
150	0.310	0.330	0.185	0.380	0.360	0.270	0.450	0.29	0.160	0.330	0.310	0.230	0.390	0.340	0.290	0.45
185	0.250	0.270	0.185	0.330	0.300	0.260	0.400	0.23	0.160	0.280	0.260	0.230	0.340	0.290	0.290	0.41
240	0.195	0.210	0.180	0.280	0.240	0.260	0.350	0.18	0.155	0.240	0.210	0.220	0.300	0.240	0.280	0.37
300	0.155	0.170	0.175	0.250	0.195	0.250	0.320	0.145	0.150	0.210	0.170	0.220	0.280	0.200	0.270	0.34
400	0.115	0.145	0.170	0.220	0.180	0.24	0.300	0.125	0.150	0.195	0.160	0.210	0.270	0.200	0.270	0.33
500	0.093	0.125	0.170	0.210	0.165	0.24	0.290	0.105	0.145	0.180	0.145	0.200	0.250	0.190	0.240	0.31
630	0.073	0.105	0.165	0.195	0.150	0.230	0.270	0.092	0.145	0.170	0.135	0.195	0.24	0.175	0.230	0.29
800	0.056	0.090	0.160	0.190	0.145	0.230	0.270	0.086	0.140	0.165	0.130	0.180	0.230	0.175	0.195	0.26
1000	0.045	0.092	0.155	0.180	0.140	0.21	0.250	0.08	0.135	0.155	0.125	0.170	0.21	0.165	0.180	0.24

The Above Is In Accordance With 18th Edition Of IET Wiring Regulations
 Conductor Operating Temperature: 90°C
 R = Resistive Component
 X = Reactive Component Z = Impedance Value
 Spacing's Larger Than Those Specified Will Result In Larger Volt Drop.
 The Above Is In Accordance With 17th Edition Of IEE Wiring Regulations.



CU/XLPE/LSZH/AWA/LSZH 0.6/1KV Cable



Application:

Designed for use in AC circuits, the aluminium armour prevents magnetic build up. Suitable for power networks and direct burial where fire and emissions of smoke and toxic fumes create a serious potential threat.

Cable Standards:

BS6724
Flame propagation to IEC 60332-1, IEC 60332-3, BS EN 50265, Category C; BS EN 50266
Smoke emission to BS EN 50268 (IEC 61034)
Acid gas emission to BS EN 50267 (IEC 60754-1)
BASEC Approved

Product Description:

Conductor	Stranded Plain Annealed Compacted Circular Copper Conductors
Insulation	Cross Linked Polyethylene (XLPE)
Bedding	LSZH Extruded Bedding
Armour	Aluminium Wire
Sheath	LSZH Extruded Bedding

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	25°C to +90°C

Core Identification:

Brown Inner

Should not be installed at temperatures below 0°C or above +40°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Halogen free
Yes



Rated Voltage U_o/U_m (Um)
0.6/1 kV



Max. conductor temp. in service
90 °C



Flame retardant
Yes



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Brass A2	Nylon A2	Nylon Cleat	Trefoil Cleat
7150250	50	19/1.78	1	638	17.70	20	25	0.7	-
7150270	70	19/2.14	1	891	19.60	25	32	0.8	-
7150295	95	19/2.52	1	1166	21.50	25	32	0.9	-
71502120	120	37/2.03	1	1412	23.10	25	32	1.0	-
71502150	150	37/2.25	1	1800	26.00	32	40	1.1	-
71502185	185	37/2.52	1	2200	28.00	32	40	1.2	TASB04
71502240	240	61/2.25	1	2800	32.00	40	50S	1.4	TASB06
71502300	300	61/2.52	1	3400	33.00	40	50S	1.4	TASB06
71502400	400	61/2.85	1	4450	38.00	40	50	1.6	TASB10
71502500	500	61/3.2	1	5550	43.00	50S	63S	1.8	TASB13
71502630	630	127/2.52	1	7100	47.00	50	63S	2.0	TASB15
71502800	800	127/2.85	1	9200	55.00	63S	75S	TC9	TASB20
715021000	1000	127/3.2	1	11270	58.80	63S	75S	TC10	TASB20

Current Carrying Capacity:

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)						REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)					
	TOUCHING		TOUCHING				SPACED BY ONE DIAMETER					
	2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 OR 4 CABLES, 3 PHASE AC FLAT	2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 CABLES, 3 PHASE AC FLAT	3 CABLES, THREE - PHASE AC TREFOIL	2 CABLES DC		2 CABLES, SINGLE PHASE AC		3 OR 4 CABLES, THREE-PHASE AC FLAT		
						HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	
1	2	3	4	5	6	7	8	9	10	11	12	
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	
50	237	220	253	232	222	284	270	282	266	288	266	
70	303	277	322	293	285	356	349	357	337	358	331	
95	367	333	389	352	346	446	426	436	412	425	393	
120	425	383	449	405	402	519	497	504	477	485	449	
150	488	437	516	462	463	600	575	566	539	549	510	
185	557	496	587	524	529	688	660	643	614	618	574	
240	656	579	689	612	625	815	782	749	714	715	666	
300	755	662	792	700	720	943	906	842	805	810	755	
400	853	717	899	767	815	1137	1094	929	889	848	797	
500	962	791	1016	851	918	1314	1266	1032	989	923	871	
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940	
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978	
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041	



Voltage Drop

CONDUCTOR CROSS – SECTIONAL AREA – MM ²	Ω CABLES DC	REFERENCE METHODS C AND F (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)														
		Ω CABLES SINGLE PASS AC						3 OR 4 CABLES THREE PHASE AC								
		TOUCHING			SPACED			TREFOIL / TOUCHING			FLAT / TOUCHING			FLAT / SPACED		
		R	X	Z	R	X	Z	R	X	Z	R	X	Z	R	X	Z
50	0.980	0.990	0.210	1.000	0.980	0.290	1.000	0.86	0.180	0.870	0.840	0.250	0.880	0.840	0.330	0.90
70	0.670	0.680	0.200	0.710	0.690	0.290	0.750	0.59	0.170	0.620	0.600	0.250	0.650	0.620	0.320	0.70
95	0.490	0.510	0.195	0.550	0.530	0.280	0.600	0.44	0.170	0.470	0.460	0.240	0.52	0.490	0.310	0.58
120	0.390	0.410	0.190	0.450	0.430	0.270	0.51	0.35	0.165	0.390	0.380	0.240	0.440	0.410	0.300	0.51
150	0.310	0.330	0.185	0.380	0.360	0.270	0.450	0.29	0.160	0.330	0.310	0.230	0.390	0.340	0.290	0.45
185	0.250	0.270	0.185	0.330	0.300	0.260	0.400	0.23	0.160	0.280	0.260	0.230	0.340	0.290	0.290	0.41
240	0.195	0.210	0.180	0.280	0.240	0.260	0.350	0.18	0.155	0.240	0.210	0.220	0.300	0.240	0.280	0.37
300	0.155	0.170	0.175	0.250	0.195	0.250	0.320	0.145	0.150	0.210	0.170	0.220	0.280	0.200	0.270	0.34
400	0.115	0.145	0.170	0.220	0.180	0.24	0.300	0.125	0.150	0.195	0.160	0.210	0.270	0.200	0.270	0.33
500	0.093	0.125	0.170	0.210	0.165	0.24	0.290	0.105	0.145	0.180	0.145	0.200	0.250	0.190	0.240	0.31
630	0.073	0.105	0.165	0.195	0.150	0.230	0.270	0.092	0.145	0.170	0.135	0.195	0.24	0.175	0.230	0.29
800	0.056	0.090	0.160	0.190	0.145	0.230	0.270	0.086	0.140	0.165	0.130	0.180	0.230	0.175	0.195	0.26
1000	0.045	0.092	0.155	0.180	0.140	0.21	0.250	0.08	0.135	0.155	0.125	0.170	0.21	0.165	0.180	0.24



CU/XLPE/PVC/SWA/PVC 0.6/1KV Cable(1.5mm²-16mm²)



Application:

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

Cable Standards:

- Flame propagation to BS EN 60332-1-2
- BS5467
- IEC/EN 60502-1
- IEC/EN 60228

Product Description:

Conductor	Class 2 stranded copper conductor acc BS EN 60228 (previously BS 6360)
Insulation	Cross linked Polyethylene (XLPE)
Bedding	Polyvinyl Chloride (PVC)
Armour	Steel Wire Armour (SWA)
Sheath	Polyvinyl Chloride PVC

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	-15°C to +90°C

Core Identification:

2 Core	Brown	Blue						
3 Core	Brown	Black	Grey					
4 Core	Brown	Black	Black	Grey				
5 Core	Brown	Black	Black	Grey	Grey			
7 Core and above	White cores with black numbers							

Should not be installed at temperatures below 0°C or above +60°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Rated Voltage U₀/U (Um)
0.6/1 kV



Max. conductor temp.in service
90 °C



Flame retardant
Yes



Dimensions(1.5mm²-16mm²):

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat
71503-2X1.5	1.5	7/0.53	2	234	11.06	20/16	0.5
71503-3X1.5	1.5	7/0.53	3	271	11.54	20/16	0.5
71503-4X1.5	1.5	7/0.53	4	306	12.26	20/16	0.5
71503-5X1.5	1.5	7/0.53	5	356	13.23	20s	0.6
71503-7X1.5	1.5	7/0.53	7	391	14.10	20s	0.6
71503-8X1.5	1.5	7/0.53	8	501	16.70	20	0.7
71503-10X1.5	1.5	7/0.53	10	650	18.00	20	0.8
71503-12X1.5	1.5	7/0.53	12	657	18.30	20	0.8
71503-19X1.5	1.5	7/0.53	19	863	20.78	25	0.9
71503-27X1.5	1.5	7/0.53	27	1310	25.10	25	1.0
71503-37X1.5	1.5	7/0.53	37	1590	27.50	32	1.1
71503-48X1.5	1.5	7/0.53	48	1900	30.00	32	1.2
71503-2X2.5	2.5	7/0.67	2	312	12.40	20s	0.5
71503-3X2.5	2.5	7/0.67	3	343	12.99	20s	0.6
71503-4X2.5	2.5	7/0.67	4	392	13.86	20s	0.6
71503-5X2.5	2.5	7/0.67	5	463	14.92	20s	0.6
71503-7X2.5	2.5	7/0.67	7	509	15.96	20	0.8
71503-10X2.5	2.5	7/0.67	10	850	20.00	25	0.8
71503-12X2.5	2.5	7/0.67	12	861	21.11	25	0.9
71503-19X2.5	2.5	7/0.67	19	1324	25.16	25	1.0
71503-27X2.5	2.5	7/0.67	27	1760	30.00	32	1.2
71503-37X2.5	2.5	7/0.67	37	2185	33.00	40	1.4
71503-48X2.5	2.5	7/0.67	48	2800	36.00	40	1.6
71503-2X4	4.0	7/0.85	2	373	13.38	20s	0.6
71503-3X4	4.0	7/0.85	3	421	14.05	20s	0.6
71503-4X4	4.0	7/0.85	4	496	15.04	20	0.6
71503-5X4	4.0	7/0.85	5	573	16.35	20	0.7
71503-7X4	4.0	7/0.85	7	741	18.21	20	0.8
71503-12X4	4.0	7/0.85	12	1255	24.24	25	1.0
71503-19X4	4.0	7/0.85	19	1690	27.61	32	1.1
71503-27X4	4.0	7/0.85	27	2250	32.00	32	1.4
71503-2X6	6.0	7/1.04	2	450	14.38	20s	0.6
71503-3X6	6.0	7/1.04	3	515	15.14	20	0.7
71503-4X6	6.0	7/1.04	4	696	17.03	20	0.7
71503-5X6	6.0	7/1.04	5	808	18.39	20	0.8
71503-7X6	6.0	7/1.04	7	1100	21.90	25	0.9
71503-2X10	10.0	7/1.35	2	590	16.18	20	0.7
71503-3X10	10.0	7/1.35	3	781	17.76	20	0.8
71503-4X10	10.0	7/1.35	4	927	19.09	25	0.8
71503-5X10	10.0	7/1.35	5	1095	20.91	25	0.9
71503-7X10	10.0	7/1.35	7	1500	25.00	25	1.0
71503-2X16	16.0	7/1.70	2	893	19.06	25	0.8
71503-3X16	16.0	7/1.70	3	1059	20.35	25	0.9
71503-4X16	16.0	7/1.70	4	1269	21.95	25	0.9
71503-5X16	16.0	7/1.70	5	1679	25.19	25	1.1
71503-7X16	16.0	7/1.70	7	2150	28.10	32	1.2



Current Carrying (amperes)

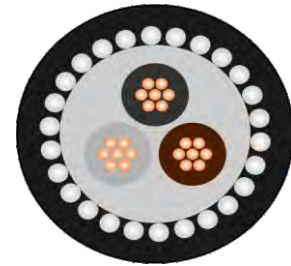
CONDUCTOR CROSS - SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS)	
	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC
1	2	3	4	5	6	7
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)
2	27	23	29	25	25	21
3	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75

Voltage Drop

NOMINAL CROSS SECTIONAL AREA MM ²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC MV/A/M	THREE OR FOUR CORE CABLE THREE-PHASE AC MV/A/M
(MM ²)	(MV/A /M)	(MV/A/M)	(MV/A/M)
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	6.8
16	2.9	2.9	2.5



CU/XLPE/PVC/SWA/PVC 0.6/1KV Cable(25mm²-400mm²)



Application:

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

Cable Standards:

- Flame propagation to BS EN 60332-1-2
- BS5467
- IEC/EN 60502-1
- IEC/EN 60228

Product Description:

Conductor	Class 2 stranded copper conductor acc BS EN 60228 (previously BS 6360)
Insulation	Cross linked Polyethylene (XLPE)
Bedding	Polyvinyl Chloride (PVC)
Armour	Steel Wire Armour (SWA)
Sheath	Polyvinyl Chloride PVC

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	-15°C to +90°C

Core Identification:

2 Core	Brown	Blue						
3 Core	Brown	Black	Grey					
4 Core	Brown	Black	Black	Grey				
5 Core	Brown	Black	Black	Black	Grey			
7 Core and above	White cores with black numbers							

Should not be installed at temperatures below 0°C or above +60°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Rated Voltage U₀/U (Um)
0.6/1 kV



Max. conductor temp. in service
90 °C



Flame retardant
Yes



Dimensions(25mm²-400mm²):

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat
71503-X25	25.0	7/2.14	2	1050	20.00	25	0.8
71503-X25	25.0	7/2.14	3	1500	23.00	25	1.0
71503-X25	25.0	7/2.14	4	1800	25.00	32	1.0
71503-X25	25.0	7/2.14	5	2200	29.00	32	1.2
71503-X35	35.0	7/2.52	2	1400	22.00	25	0.9
71503-X35	35.0	7/2.52	3	1800	26.00	32	1.1
71503-X35	35.0	7/2.52	4	2200	28.00	32	1.2
71503-X35	35.0	7/2.52	5	2800	33.00	40	1.4
71503-X50	50.0	19/1.78	2	1750	25.00	32	1.0
71503-X50	50.0	19/1.78	3	2250	28.00	32	1.2
71503-X50	50.0	19/1.78	4	2850	31.00	32	1.4
71503-X50	50.0	19/1.78	5	3850	38.00	40	1.6
71503-X70	70.0	19/2.14	2	2200	28.00	32	1.2
71503-X70	70.0	19/2.14	3	3000	32.00	32	1.4
71503-X70	70.0	19/2.14	4	4100	37.00	40	1.6
71503-X70	70.0	19/2.14	5	5100	43.00	50s	1.8
71503-X95	95.0	19/2.52	2	3000	32.00	40	1.4
71503-X95	95.0	19/2.52	3	4150	37.00	40	1.6
71503-X95	95.0	19/2.52	4	5200	40.00	50s	1.8
71503-X95	95.0	19/2.52	5	7700	52.00	50	TC9
71503-X120	120.0	37/2.03	2	3600	35.00	40	1.4
71503-X120	120.0	37/2.03	3	4950	40.00	50s	1.8
71503-X120	120.0	37/2.03	4	6700	46.00	50	2.0
71503-X120	120.0	37/2.03	5	9030	57.00	63S	TC9
71503-X150	150.0	37/2.25	2	4250	37.00	40	1.6
71503-X150	150.0	37/2.25	3	6300	45.00	50	1.8
71503-X150	150.0	37/2.25	4	7900	49.00	50	2.0
71503-X150	150.0	37/2.25	5	10430	61.00	63	TC11
71503-X185	185.0	37/2.52	2	5500	43.00	50	1.8
71503-X185	185.0	37/2.52	3	7650	49.00	50	2.0
71503-X185	185.0	37/2.52	4	9650	55.00	63S	TC9
71503-X240	240.0	61/2.25	2	6900	48.00	50	2.0
71503-X240	240.0	61/2.25	3	9650	56.00	63S	TC9
71503-X240	240.0	61/2.25	4	12400	62.00	63	TC10
71503-X300	300.0	61/2.52	2	8200	50.00	50	2.0
71503-X300	300.0	61/2.52	3	11550	59.00	63	TC10
71503-X300	300.0	61/2.52	4	14800	66.00	75S	TC11
71503-X400	400.0	61/2.85	2	10100	56.00	63S	TC9
71503-X400	400.0	61/2.85	3	14350	65.00	75S	TC11
71503-X400	400.0	61/2.85	4	19300	76.60	75	TC14



Current Carrying (amperes)

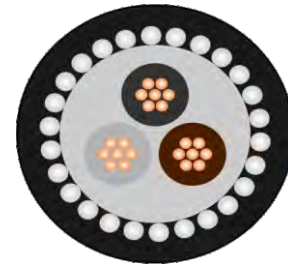
CONDUCTOR CROSS - SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS)	
	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC
1	2	3	4	5	6	7
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

Voltage Drop

NOMINAL CROSS SECTIONAL AREA MM ²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC MV/A/M			THREE OR FOUR CORE CABLE THREE-PHASE AC MV/A/M		
		R	X	Z	R	X	Z
(MM ²)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)
25	1.850	1.850	0.160	1.900	1.600	0.140	1.650
35	1.350	1.350	0.155	1.350	1.150	0.135	1.150
50	0.980	0.990	0.155	1.000	0.866	0.135	0.870
70	0.670	0.670	0.150	0.690	0.590	0.130	0.600
95	0.490	0.500	0.150	0.520	0.430	0.130	0.450
120	0.390	0.400	0.415	0.420	0.340	0.130	0.370
150	0.310	0.320	0.145	0.350	0.280	0.125	0.300
185	0.250	0.260	0.145	0.290	0.220	0.125	0.260
240	0.195	0.200	0.140	0.240	0.175	0.125	0.210
300	0.155	0.150	0.140	0.210	0.140	0.120	0.185
400	0.120	0.130	0.140	0.190	0.115	0.120	0.165



CU/XLPE/LSZH/SWA/LSZH 0.6/1KV Cable(1.5mm²-16mm²)



Application:

Used in power networks, indoor, outdoor, underground.
Can be used in cable ducting for installation where fire, smoke emissions and toxic fumes create a potential threat to life and equipment.

Cable Standards:

BS6724, Acid gas emission to BS EN 50267 (IEC 60754-1)
Smoke emission to BS EN 50268 (IEC 61034)
Flame propagation: IEC 60332-1, IEC60332-3, BS EN 50265, Category C; BS EN 50266

Product Description:

Conductor	Plain Annealed Stranded Copper Conductors
Insulation	Cross linked Polyethylene (XLPE)
Bedding	LSZH
Armour	Galvanised Steel Wire Armour
Sheath	Low Smoke and Zero Halogen

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	-25°C to +90°C

Core Identification:

2 Core	Brown	Blue			
3 Core	Brown	Black	Grey		
3 Core	Brown	Blue	Yellow	Green	G/Y
4 Core	Brown	Black	Blue	Blue	Grey
5 Core and above - up to 6mm ²	White				
2, 3, 4 or 5 Core 1.5 - 2.5mm ²	White				

Should not be installed at temperatures below 0°C or above +40°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Halogen free
Yes



Rated Voltage U_o/U (Um)
0.6/1 kV



Max. conductor temp.in service
90 °C



Flame retardant
Yes



Dimensions(1.5mm²-16mm²):

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat
71504-2X1.5	1.5	7/0.53	2	234	11.06	20/16	0.5
71504-3X1.5	1.5	7/0.53	3	271	11.54	20/16	0.5
71504-4X1.5	1.5	7/0.53	4	306	12.26	20/16	0.5
71504-5X1.5	1.5	7/0.53	5	356	13.23	20s	0.6
71504-7X1.5	1.5	7/0.53	7	391	14.10	20s	0.6
71504-8X1.5	1.5	7/0.53	8	501	16.70	20	0.7
71504-10X1.5	1.5	7/0.53	10	650	18.00	20	0.8
71504-12X1.5	1.5	7/0.53	12	657	18.30	20	0.8
71504-19X1.5	1.5	7/0.53	19	863	20.78	25	0.9
71504-27X1.5	1.5	7/0.53	27	1310	25.10	25	1.0
71504-37X1.5	1.5	7/0.53	37	1590	27.50	32	1.1
71504-48X1.5	1.5	7/0.53	48	1900	30.00	32	1.2
71504-2X2.5	2.5	7/0.67	2	312	12.40	20s	0.5
71504-3X2.5	2.5	7/0.67	3	343	12.99	20s	0.6
71504-4X2.5	2.5	7/0.67	4	392	13.86	20s	0.6
71504-5X2.5	2.5	7/0.67	5	463	14.92	20s	0.6
71504-7X2.5	2.5	7/0.67	7	509	15.96	20	0.8
71504-10X2.5	2.5	7/0.67	10	850	20.00	25	0.8
71504-12X2.5	2.5	7/0.67	12	861	21.11	25	0.9
71504-19X2.5	2.5	7/0.67	19	1324	25.16	25	1.0
71504-27X2.5	2.5	7/0.67	27	1760	30.00	32	1.2
71504-37X2.5	2.5	7/0.67	37	2185	33.00	40	1.4
71504-48X2.5	2.5	7/0.67	48	2800	36.00	40	1.6
71504-2X4	4.0	7/0.85	2	373	13.38	20s	0.6
71504-3X4	4.0	7/0.85	3	421	14.05	20s	0.6
71504-4X4	4.0	7/0.85	4	496	15.04	20	0.6
71504-5X4	4.0	7/0.85	5	573	16.35	20	0.7
71504-7X4	4.0	7/0.85	7	741	18.21	20	0.8
71504-12X4	4.0	7/0.85	12	1255	24.24	25	1.0
71504-19X4	4.0	7/0.85	19	1690	27.61	32	1.1
71504-27X4	4.0	7/0.85	27	2250	32.00	32	1.4
71504-2X6	6.0	7/1.04	2	450	14.38	20s	0.6
71504-3X6	6.0	7/1.04	3	515	15.14	20	0.7
71504-4X6	6.0	7/1.04	4	696	17.03	20	0.7
71504-5X6	6.0	7/1.04	5	808	18.39	20	0.8
71504-7X6	6.0	7/1.04	7	1100	21.90	25	0.9
71504-2X10	10.0	7/1.35	2	590	16.18	20	0.7
71504-3X10	10.0	7/1.35	3	781	17.76	20	0.8
71504-4X10	10.0	7/1.35	4	927	19.09	25	0.8
71504-5X10	10.0	7/1.35	5	1095	20.91	25	0.9
71504-7X10	10.0	7/1.35	7	1500	25.00	25	1.0
71504-2X16	16.0	7/1.70	2	893	19.06	25	0.8
71504-3X16	16.0	7/1.70	3	1059	20.35	25	0.9
71504-4X16	16.0	7/1.70	4	1269	21.95	25	0.9
71504-5X16	16.0	7/1.70	5	1679	25.19	25	1.1
71504-7X16	16.0	7/1.70	7	2150	28.10	32	1.2



Current Carrying (amperes)

CONDUCTOR CROSS - SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS)	
	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC
1	2	3	4	5	6	7
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)
2	27	23	29	25	25	21
3	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75

Voltage Drop

NOMINAL CROSS SECTIONAL AREA MM ²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC MV/A/M	THREE OR FOUR CORE CABLE THREE-PHASE AC MV/A/M
(MM ²)	(MV/A /M)	(MV/A/M)	(MV/A/M)
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	6.8
16	2.9	2.9	2.5



CU/XLPE/LSZH/SWA/LSZH 0.6/1KV Cable(25mm²-400mm²)



Application:

Used in power networks, indoor, outdoor, underground. Can be used in cable ducting for installation where fire, smoke emissions and toxic fumes create a potential threat to life and equipment.

Cable Standards:

- BS6724, Acid gas emission to BS EN 50267 (IEC 60754-1)
- Smoke emission to BS EN 50268 (IEC 61034)
- Flame propagation: IEC 60332-1, IEC60332-3, BS EN 50265, Category C; BS EN 50266

Product Description:

Conductor	Plain Annealed Stranded Copper Conductors
Insulation	Cross linked Polyethylene (XLPE)
Bedding	LSZH
Armour	Steel Wire Armour (SWA)
Sheath	Low Smoke and Zero Halogen

Characteristics:

Voltage Rating	600/1000 Volts
Temperature Limits	-15°C to +90°C

Core Identification:

2 Core	Brown	Blue					
3 Core	Brown	Black	Grey				
3 Core	Brown	Blue	Yellow	Green	G/Y		
4 Core	Brown	Black	Blue	Blue		Grey	
5 Core and above - up to 6mm ² White							

Should not be installed at temperatures below 0°C or above +40°C



Conductor flexibility
Stranded class 2



Lead free
Yes



Halogen free
Yes



Rated Voltage U_o/U_m (Um)
0.6/1 kV



Max. conductor temp.in service
90 °C



Flame retardant
Yes



Dimensions(25mm²-400mm²):

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight Kg/km	Overall Diameter (mm)	Gland Size (mm)	Nylon Cleat
71504-X25	25.0	7/2.14	2	1050	20.00	25	0.8
71504-X25	25.0	7/2.14	3	1500	23.00	25	1.0
71504-X25	25.0	7/2.14	4	1800	25.00	32	1.0
71504-X25	25.0	7/2.14	5	2200	29.00	32	1.2
71504-X35	35.0	7/2.52	2	1400	22.00	25	0.9
71504-X35	35.0	7/2.52	3	1800	26.00	32	1.1
71504-X35	35.0	7/2.52	4	2200	28.00	32	1.2
71504-X35	35.0	7/2.52	5	2800	33.00	40	1.4
71504-X50	50.0	19/1.78	2	1750	25.00	32	1.0
71504-X50	50.0	19/1.78	3	2250	28.00	32	1.2
71504-X50	50.0	19/1.78	4	2850	31.00	32	1.4
71504-X50	50.0	19/1.78	5	3850	38.00	40	1.6
71504-X70	70.0	19/2.14	2	2200	28.00	32	1.2
71504-X70	70.0	19/2.14	3	3000	32.00	32	1.4
71504-X70	70.0	19/2.14	4	4100	37.00	40	1.6
71504-X70	70.0	19/2.14	5	5100	43.00	50s	1.8
71504-X95	95.0	19/2.52	2	3000	32.00	40	1.4
71504-X95	95.0	19/2.52	3	4150	37.00	40	1.6
71504-X95	95.0	19/2.52	4	5200	40.00	50s	1.8
71504-X95	95.0	19/2.52	5	7700	52.00	50	TC9
71504-X120	120.0	37/2.03	2	3600	35.00	40	1.4
71504-X120	120.0	37/2.03	3	4950	40.00	50s	1.8
71504-X120	120.0	37/2.03	4	6700	46.00	50	2.0
71504-X120	120.0	37/2.03	5	9030	57.00	63S	TC9
71504-X150	150.0	37/2.25	2	4250	37.00	40	1.6
71504-X150	150.0	37/2.25	3	6300	45.00	50	1.8
71504-X150	150.0	37/2.25	4	7900	49.00	50	2.0
71504-X150	150.0	37/2.25	5	10430	61.00	63	TC11
71504-X185	185.0	37/2.52	2	5500	43.00	50	1.8
71504-X185	185.0	37/2.52	3	7650	49.00	50	2.0
71504-X185	185.0	37/2.52	4	9650	55.00	63S	TC9
71504-X240	240.0	61/2.25	2	6900	48.00	50	2.0
71504-X240	240.0	61/2.25	3	9650	56.00	63S	TC9
71504-X240	240.0	61/2.25	4	12400	62.00	63	TC10
71504-X300	300.0	61/2.52	2	8200	50.00	50	2.0
71504-X300	300.0	61/2.52	3	11550	59.00	63	TC10
71504-X300	300.0	61/2.52	4	14800	66.00	75S	TC11
71504-X400	400.0	61/2.85	2	10100	56.00	63S	TC9
71504-X400	400.0	61/2.85	3	14350	65.00	75S	TC11
71504-X400	400.0	61/2.85	4	19300	76.60	75	TC14



Current Carrying (amperes)

CONDUCTOR CROSS - SECTIONAL AREA	REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL)		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS)	
	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC	1 TWO CORE CABLE SINGLE-PHASE AC OR DC	1 THREE OR 1 FOUR CORE CABLE THREE-PHASE AC
1	2	3	4	5	6	7
(MM ²)	(A)	(A)	(A)	(A)	(A)	(A)
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

Voltage Drop

NOMINAL CROSS SECTIONAL AREA MM ²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC MV/A/M			THREE OR FOUR CORE CABLE THREE-PHASE AC MV/A/M		
		(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)	(MV/A/M)
(MM ²)	(MV/A/M)	R	X	Z	R	X	Z
25	1.850	1.850	0.160	1.900	1.600	0.140	1.650
35	1.350	1.350	0.155	1.350	1.150	0.135	1.150
50	0.980	0.990	0.155	1.000	0.866	0.135	0.870
70	0.670	0.670	0.150	0.690	0.590	0.130	0.600
95	0.490	0.500	0.150	0.520	0.430	0.130	0.450
120	0.390	0.400	0.415	0.420	0.340	0.130	0.370
150	0.310	0.320	0.145	0.350	0.280	0.125	0.300
185	0.250	0.260	0.145	0.290	0.220	0.125	0.260
240	0.195	0.200	0.140	0.240	0.175	0.125	0.210
300	0.155	0.150	0.140	0.210	0.140	0.120	0.185
400	0.120	0.130	0.140	0.190	0.115	0.120	0.165

● GLOBAL MARKET



■ China - Head office

Email: info@hello-signal.com
info@zion-communication.com

Mobile/WhatsApp: 0086 15715730101

ADD: Zion Industrial Park, Huaqiao Road,
Jincheng, Lin'an, Zhejiang, China