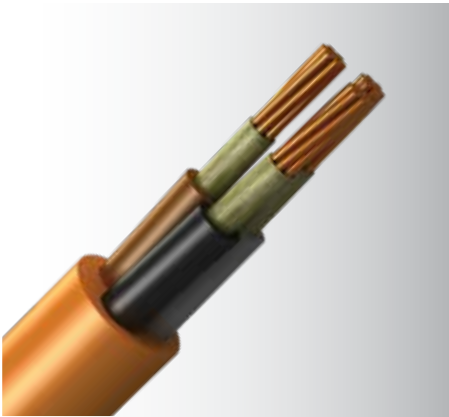


LSZH Fire Resistant Cables

300/500V 2-Core ~ 4-Core
Mica Tape, XLPE Insulated, LSZH Sheathed
Description: CU/MT/XLPE/LSZH-AT
Model Code: MXL-AT



Application :	This cable is designed for areas where the integrity of the electrical circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, communications systems, sewage treatment plants, lifts, escalators, and high-rise buildings
Voltage rating :	300/500V
Construction :	Plain annealed copper, mica tape fire barrier, XLPE insulated, Anti-termite LSZH compound sheathed cable
Insulation colour :	2-Core: (Brown & Blue) 3-Core: (Brown, Black & Grey) 4-Core: (Brown, Black, Grey & Blue) (other colour upon request)
Sheath colour :	Orange (other colour upon request)
Specification :	IEC60502-1, SS299, BS6387, IEC60331, IEC60332-1-2, IEC60332-3, IEC60754, IEC61034-2
Operating Temperature:	90°C

Part No.	No. of Core	Conductor		Insulation	Approx. Overall Diam.	Approx. Weight
		Nominal Area	No./Diam. of Strand	Thickness		
		(mm ²)	(no./mm)	(mm)		
07024101	2-core	1.5	7/0.53	0.5	8.5	70
07034102	3-core				9.0	95
07044103	4-core				10.4	134
08024101	2-core	2.5	7/0.67	0.5	9.3	93
08034102	3-core				10.0	128
08044103	4-core				11.4	180
09024101	2-core	4.0	7/0.85	0.5	10.4	128
09034102	3-core				11.5	190
09044103	4-core				12.7	255

For current rating and voltage drop please refer to Tables 16 & 17 (Page 52)

Current Rating and Voltage Drop

XLPE (or LSZH) Insulated Cables
Multi-Core, Unarmoured



tel (65) 6367 0107 fax (65) 6365 2963
www.keystone-cable.com

Multi-Core Cables with XLPE (or LSZH) Insulation, PVC (or LSZH) Outersheath 300/500V or 600/1000V

Table 16 : Current-Carrying Capacities (Amp) [CU/XLPE/PVC, CU/XLPE/LSZH or CU/MT/XLPE/LSZH Cables]

Conductor Operating Temperature :90°C

Ambient Temperature :30°C

IEC60502-1

Conductor cross-sectional area	Reference Method 4 (enclosed in an conduit insulated wall etc)	Reference Method 3 (enclosed in conduit on a wall or ceiling, or in trunking)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray), or Reference Method 13 (free air)	
	one 3-core cable or one 4-core cable 3-phase a.c.	one 2-core cable single-phase a.c. or d.c.	one 3-core cable or one 4-core cable 3-phase a.c.	one 2-core cable single-phase a.c. or d.c.	one 3-core cable or one 4-core cable 3-phase a.c.	one 2-core cable single-phase a.c. or d.c.	one 3-core cable or one 4-core cable 3-phase a.c.
1	2	3	4	5	6	7	8
mm ²	A	A	A	A	A	A	A
1.5	16.5	22	19.5	24	22	26	23
2.5	22	30	26	33	30	36	32
4	30	40	35	45	40	49	42
6	38	51	44	58	52	63	54
10	51	69	60	80	71	86	75
16	68	91	80	107	96	115	100
25	89	119	105	138	119	149	127
35	109	146	128	171	147	185	158
50	130	175	154	209	179	225	192
70	164	221	194	269	229	289	246
95	197	265	233	328	278	352	298
120	227	305	268	382	322	410	346
150	259	334	300	441	371	473	399
185	295	384	340	506	424	542	456
240	346	459	398	599	500	641	538
300	396	532	455	693	576	741	621
400	-	625	536	803	667	865	741

Note : For rating factors of ambient temperature other than 30°C please refer to Table 27
For rating factors of ground temperature other than 15°C please refer to Table 30

Table 17 : Voltage Drop (Per Amp Per Meter) [CU/XLPE/PVC, CU/XLPE/LSZH or CU/MT/XLPE/LSZH Cables]

Conductor Operating Temperature :90°C

Ambient Temperature :30°C

IEC60502-1

Conductor cross-sectional area	2-core cable d.c.	2-core cable single-phase a.c.			3-core or 4-core cable 3-phase a.c.		
1	2	3			4		
mm ²	mV/A/m	mV/A/m			mV/A/m		
1.5	31						27
2.5	19						16
4	12						10
6	7.9						6.8
10	4.7						4.0
16	2.9						2.5
		r	x	z	r	x	z
25	1.85	1.85	0.160	1.90	1.60	0.140	1.65
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185
400	0.120	0.13	0.140	0.19	0.115	0.120	0.165

Note : r = conductor resistance at operating temperature
x = reactance
z = impedance