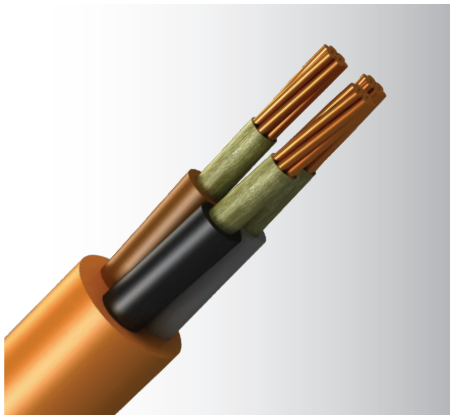


LSZH Fire Resistant Cables

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



Application :	This cable is designed for areas where the integrity of the electrical circuit is critical in maintaining power supply. Applications include emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, sewage treatment plants, and high-rise buildings.
Voltage rating :	300/500V
Construction :	Plain annealed copper (IEC 60228 Class 2), mica tape fire barrier, XLPE insulated, anti-termites and UV resistant LSZH compound sheathed cable
Insulation colour :	2-Core: Brown, Blue; 3-Core: Brown, Black, Grey; Brown, Blue, Green/Yellow; 4-Core: Brown, Black, Grey, Blue; Brown, Black, Grey, Green/Yellow; (Other colour upon request)
Sheath colour :	Orange (Other colour upon request)
Specification :	SS 299 Part 1:1998, IEC 60331, IEC 60332-1-2, IEC 60754, IEC 61034-2
Operating temperature :	90°C

2-CORE [2C]

(Brown, Blue) (1-phase and neutral)

Conductor		Part No.	Insulation	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand		Thickness		
(mm ²)	(no./mm)		(mm)		
1.5	7/0.53	07024667	0.5	8.5	70
2.5	7/0.67	08024667	0.5	9.3	93
4	7/0.85	09024667	0.5	10.4	128

3-CORE [3C]

(Brown, Black, Grey) (3-phase, three wire)

Conductor		Part No.	Insulation	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand		Thickness		
(mm ²)	(no./mm)		(mm)		
1.5	7/0.53	07034102	0.5	9.0	95
2.5	7/0.67	08034102	0.5	10.0	128
4	7/0.85	09034102	0.5	11.2	190

3-CORE [3G]

(Brown, Blue, Green/Yellow) (1-phase and earth)

Conductor		Part No.	Insulation	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand		Thickness		
(mm ²)	(no./mm)		(mm)		
1.5	7/0.53	07034665	0.5	9.0	95
2.5	7/0.67	08034665	0.5	10.0	128
4	7/0.85	09034665	0.5	11.2	190

Current rating and voltage drop
Please refer to Table 14 & 15 (Page 60)

LSZH Fire Resistant Cables



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

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

4-CORE [4C] (Brown, Black, Grey, Blue) (3-phase and neutral)					
Conductor		Part No.	Insulation	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand		Thickness		
(mm ²)	(no./mm)		(mm)	(mm)	(kg/km)
1.5	7/0.53	07044668	0.5	10.0	134
2.5	7/0.67	08044668	0.5	11.0	180
4	7/0.85	09044668	0.5	12.4	255

4-CORE [4G] (Brown, Black, Grey, Green/Yellow) (3-phase and earth)					
Conductor		Part No.	Insulation	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand		Thickness		
(mm ²)	(no./mm)		(mm)	(mm)	(kg/km)
1.5	7/0.53	07044643	0.5	10.0	134
2.5	7/0.67	08044643	0.5	11.0	180
4	7/0.85	09044643	0.5	12.4	255

Current rating and voltage drop
Please refer to Table 14 & 15 (Page 60)

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 0.6/1kV

Table 14 : 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

IEC 60502-1

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 (in free air)	
	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 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	472	625	536	803	667	865	741

Note : For rating factors of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Table 15 : Voltage Drop (Per Amp Per Meter)
[CU/XLPE/PVC, CU/XLPE/LSZH or CU/MT/XLPE/LSZH Cables]

Conductor Operating Temperature : 90°C

IEC 60502-1

Conductor Cross-sectional Area	2-core cable, d.c.		2-core cable, 1-phase a.c.			3-core or 4-core cables, 3-phase a.c.		
	1	2	3			4		
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			4.0		
16	2.9		2.9			2.5		
			r	x	z	r	x	z
25	1.85	1.85	1.85	0.160	1.90	1.60	0.140	1.65
35	1.35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.98	0.99	0.155	1.00	0.86	0.135	0.87
70	0.67	0.67	0.67	0.150	0.69	0.59	0.130	0.60
95	0.49	0.49	0.50	0.150	0.52	0.43	0.130	0.45
120	0.39	0.40	0.40	0.145	0.42	0.34	0.130	0.37
150	0.31	0.32	0.32	0.145	0.35	0.28	0.125	0.30
185	0.25	0.26	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.200	0.200	0.140	0.24	0.175	0.125	0.21
300	0.155	0.160	0.160	0.140	0.21	0.140	0.120	0.185
400	0.120	0.130	0.130	0.140	0.190	0.115	0.120	0.165

Note : r = resistive component; x = reactive component; z = impedance value

Current Rating and Voltage Drop

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



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

Multi-Core Cables with XLPE (or LSZH) Insulation, Armoured, PVC or LSZH Outersheath 0.6/1kV

Table 16 : Current-Carrying Capacities (Amp)

[CU/XLPE/PVC/SWA/PVC, CU/XLPE/LSZH/SWA/LSZH, CU/MT/XLPE/LSZH/SWA/LSZH Cables]

Conductor Operating Temperature : 90°C
Ambient Temperature : 30°C
Ground Temperature : 15°C

Depth of Laying : 0.5m

BS 6724
IEC 60502-1
Soil Thermal Resistivity : 1.2 k•m/W

Conductor Cross-sectional Area	Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated horizontal cable tray) or Reference Method 13 (in free air)		In single-way ducts		Laid direct in ground	
	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.
1	2	3	4	5	6	7	8	9
mm ²	A	A	A	A	A	A	A	A
1.5	27	23	29	25	-	23	-	28
2.5	36	31	39	33	-	30	-	36
4	49	42	52	44	-	40	-	48
6	62	53	66	56	-	50	-	60
10	85	73	90	78	-	65	-	80
16	110	94	115	99	115	94	140	115
25	146	124	152	131	145	125	180	150
35	180	154	188	162	175	150	215	180
50	219	187	228	197	210	175	255	215
70	279	238	291	251	260	215	315	265
95	338	289	354	304	310	260	380	315
120	392	335	410	353	355	300	430	360
150	451	386	472	406	400	335	480	405
185	515	441	539	463	455	380	540	460
240	607	520	636	546	520	440	630	530
300	698	599	732	628	590	495	700	590
400	787	673	847	728	660	560	790	670

Note : For rating factors of ambient temperature other than 30°C, please refer to Table 25 (Page 66)
For rating factors of ground temperature other than 15°C, please refer to Table 26 (Page 66)

Table 17 : Voltage Drop (Per Amp Per Meter)

[CU/XLPE/PVC/SWA/PVC, CU/XLPE/LSZH/SWA/LSZH, CU/MT/XLPE/LSZH/SWA/LSZH Cables]

Conductor Operating Temperature : 90°C

BS 6724
IEC 60502-1

Conductor Cross-sectional Area	2-core cable, d.c.	2-core cables, 1-phase a.c.			3-core or 4-core cables, 3-phase a.c.			2-core cables, 1-phase a.c.	3-core or 4-core cables, 3-phase a.c.
								In ducts or in ground	In ducts or in ground
1	2	3			4			5	6
mm ²	mV/A/m	mV/A/m			mV/A/m			mV/A/m	mV/A/m
1.5	31.0	31.0			27.0			31.0	25.0
2.5	19.0	19.0			16.0			19.0	15.0
4	12.0	12.0			10.0			12.0	9.7
6	7.9	7.9			6.8			7.9	6.5
10	4.7	4.7			4.0			4.7	3.9
16	2.9	2.9			2.5			2.9	2.6
		r	x	z	r	x	z		
25	1.850	1.850	0.160	1.900	1.600	0.140	1.650	1.900	1.600
35	1.350	1.350	0.155	1.350	1.150	0.135	1.150	1.350	1.200
50	0.980	0.990	0.155	1.000	0.860	0.135	0.870	1.000	0.870
70	0.670	0.670	0.150	0.690	0.590	0.130	0.600	0.690	0.610
95	0.490	0.500	0.150	0.520	0.430	0.130	0.450	0.520	0.450
120	0.390	0.400	0.145	0.420	0.340	0.130	0.370	0.420	0.360
150	0.310	0.320	0.145	0.350	0.280	0.125	0.300	0.350	0.300
185	0.250	0.260	0.145	0.290	0.220	0.125	0.260	0.290	0.250
240	0.195	0.200	0.140	0.240	0.175	0.125	0.210	0.240	0.210
300	0.155	0.160	0.140	0.210	0.140	0.120	0.185	0.210	0.190
400	0.120	0.130	0.140	0.190	0.115	0.120	0.165	0.190	0.180

Note : r = resistive component; x = reactive component; z = impedance value

Current Rating and Voltage Drop

Flexible Cables



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

Flexible Cables with PVC Insulation, or PVC Insulation & PVC Outersheath 250/440V

Table 18 : Technical Data Flexible Cord, Imperial Sizes
[CU/PVC or CU/PVC/PVC Cables]

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

BS 2004

Conductor		Current-Carrying Capacity		Voltage Drop per 100 feet		Maximum Weight supportable by twin flexible cord
Cross-sectional Area	No./Diam. of Strand	d.c. or 1- or 3-phase a.c.	d.c. or 1-phase a.c.	3-phase a.c.		
1	2	3	4	5	6	
mm ²	No./inch	A	V	V	lb	
0.4	14/0.0076	3	8.9	7.7	3	
0.7	23/0.0076	6	11	9.4	5	
1.2	40/0.0076	13	14	12	10	
2.0	70/0.0076	18	12	10	10	
3.2	110/0.0076	24	9.6	8.3	10	
4.7	162/0.0076	31	8.4	7.3	10	

Note : For rating factor of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Flexible Cables with PVC Insulation, PVC Outersheath 300/500V

Table 19 : Technical Data Flexible Cord, Metrics Sizes
[CU/PVC/PVC Cables]

Conductor Operating Temperature : 60°C

BS EN 50525-2-11
BS 6500

Conductor		Current-Carrying Capacity		Voltage Drop		Maximum Mass supportable by twin flexible cord
Cross-sectional Area	No./Diam. of Strand	d.c. or 1-phase a.c.	3-phase a.c.	d.c. or 1-phase a.c.	3-phase a.c.	
1	2	3		4	5	6
mm ²	No./mm	A		mV/A/m	mV/A/m	kg
0.5	16/0.20	3	3	93	80	2
0.75	24/0.20	6	6	62	54	3
1	32/0.20	10	10	46	40	5
1.5	30/0.25	16	16	32	27	5
2.5	50/0.25	25	20	19	16	5
4	56/0.30	32	25	12	10	5

Note : For rating factor of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Current Rating and Voltage Drop

EPR Insulated Cables



tel (65) 6367 0107 fax (65) 6365 2963
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Single-Core EPR Insulated, Chlorinated Polyethylene Outersheath Neoprene Cable 450/750V or 0.6/1kV

Table 20 : Current-Carrying Capacities (Amp)
[CU/EPR/CPE Cables]

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

BS EN 50525-2-21

Conductor Cross-sectional Area	Reference Method 3 (enclosed in conduit etc. in or on a wall)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray) Horizontal or Vertical		Reference Method 12 (in free air)	
	2 cables, 1-phase a.c. or d.c.	3 or 4 cables, 3-phase a.c.	2 cables, 1-phase a.c. or d.c. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	2 cables, 1-phase a.c. or d.c. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	2 cables, 1-phase a.c. or d.c. or 3 or 4 cables, 3-phase a.c. flat spaced horizontal or vertical	3 cables trefoil, 3-phase a.c.
1	2	3	4	5	6	7	8	9
mm ²	A	A	A	A	A	A	A	A
1	17	15	19	17.5	-	-	-	-
1.5	22	19.5	25	23	-	-	-	-
2.5	30	27	34	31	-	-	-	-
4	40	36	45	42	-	-	-	-
6	52	46	59	54	-	-	-	-
10	72	63	81	75	-	-	-	-
16	96	85	108	100	-	-	-	-
25	127	112	143	133	153	140	154	134
35	157	138	177	164	189	174	192	167
50	190	167	215	199	229	211	235	204
70	242	213	274	254	293	269	303	262
95	293	258	332	308	356	327	370	320
120	339	298	384	357	412	379	431	373
150	372	334	442	411	475	437	499	432
185	428	379	519	469	542	499	573	495
240	510	443	607	553	639	589	679	587
300	593	506	695	636	735	679	786	680
400	719	602	827	755	860	798	929	799
500	835	689	946	865	989	918	1081	919
630	975	791	1088	996	1143	1062	1263	1060

Note : For rating factors of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Table 21 : Voltage Drop (Per Amp Per Meter)
[CU/EPR/CPE Cables]

Conductor Operating Temperature : 90°C

BS EN 50525-2-21

Conductor Cross-sectional Area	2 cables, d.c.	2 cables, 1-phase a.c.									3 or 4 cables, 3-phase a.c.											
		Reference Method 3 (enclosed in conduit etc. in or on a wall)			Reference Methods 1 & 11 (clipped direct or on trays, touching)			Reference Method 12 (spaced*)			Reference Method 3 (enclosed in conduit etc. in or on a wall)			Reference Method 1, 11 & 12 (in trefoil touching)			Reference Methods 1 & 11 (flat and touching)			Reference Method 12 (flat spaced*)		
1	2	3			4			5			6			7			8			9		
mm ²	mV/A/m	mV/A/m			mV/A/m			mV/A/m			mV/A/m			mV/A/m			mV/A/m			mV/A/m		
1	46	46			46			-			40			40			40			-		
1.5	31	31			31			-			26			26			26			-		
2.5	18	18			18			-			16			16			16			-		
4	12	12			12			-			10			10			10			-		
6	7.7	7.7			7.7			-			6.7			6.7			6.7			-		
10	4.6	4.6			4.6			-			4.0			4.0			4.0			-		
16	2.9	2.9			2.9			-			2.5			2.5			2.5			-		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.80	1.85	0.32	1.90	1.85	0.20	1.85	1.85	0.29	1.85	1.60	0.28	1.65	1.60	0.175	1.60	1.60	0.25	1.60	1.60	0.32	1.65
35	1.30	1.35	0.31	1.40	1.30	0.195	1.35	1.30	0.28	1.35	1.15	0.27	1.20	1.15	0.170	1.15	1.15	0.24	1.15	1.15	0.32	1.20
50	0.95	1.00	0.30	1.05	0.97	0.190	0.99	0.97	0.28	1.00	0.87	0.26	0.91	0.84	0.165	0.86	0.84	0.24	0.88	0.84	0.32	0.90
70	0.65	0.68	0.29	0.74	0.66	0.185	0.69	0.66	0.27	0.72	0.60	0.25	0.65	0.57	0.160	0.60	0.57	0.24	0.62	0.57	0.31	0.65
95	0.48	0.51	0.28	0.58	0.49	0.180	0.52	0.49	0.27	0.56	0.44	0.25	0.51	0.43	0.155	0.45	0.43	0.23	0.48	0.42	0.31	0.52
120	0.38	0.40	0.27	0.49	0.39	0.175	0.43	0.39	0.26	0.47	0.35	0.24	0.43	0.34	0.155	0.37	0.34	0.23	0.41	0.34	0.30	0.45
150	0.30	0.33	0.27	0.42	0.31	0.175	0.36	0.31	0.26	0.40	0.29	0.24	0.37	0.27	0.150	0.31	0.27	0.23	0.35	0.27	0.30	0.40
185	0.25	0.27	0.27	0.38	0.25	0.170	0.30	0.25	0.26	0.36	0.23	0.23	0.33	0.22	0.150	0.26	0.22	0.22	0.31	0.22	0.30	0.37
240	0.190	0.21	0.26	0.33	0.195	0.165	0.26	0.195	0.25	0.32	0.180	0.23	0.29	0.170	0.145	0.22	0.170	0.22	0.28	0.170	0.30	0.34
300	0.150	0.170	0.26	0.31	0.155	0.165	0.23	0.155	0.25	0.29	0.150	0.23	0.27	0.135	0.140	0.195	0.135	0.22	0.26	0.135	0.29	0.32
400	0.115	0.140	0.26	0.30	0.125	0.160	0.20	0.120	0.25	0.28	0.130	0.22	0.26	0.110	0.140	0.175	0.110	0.21	0.24	0.105	0.29	0.31
500	0.091	0.115	0.26	0.28	0.100	0.155	0.185	0.097	0.24	0.26	0.105	0.22	0.24	0.089	0.135	0.165	0.089	0.21	0.23	0.085	0.29	0.30
630	0.072	0.100	0.25	0.27	0.082	0.155	0.175	0.077	0.24	0.25	0.085	0.22	0.24	0.073	0.135	0.155	0.073	0.21	0.22	0.067	0.28	0.29

Note : r = resistive component; x = reactive component; z = impedance value

Current Rating and Voltage Drop

EPR Insulated Cables



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

Multi-Core EPR Insulated, Chlorinated Polyethylene Outersheath Neoprene Cable 450/750V or 0.6/1kV

Table 22 : Current-Carrying Capacities (Amp)
[CU/EPR/CPE Cables]

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

BS EN 50525-2-21

Conductor Cross-sectional Area	Reference Method 3 (enclosed)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray) or Reference Method 13 (in free air)	
	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.	one 2-core cable, 1-phase a.c. or d.c.	one 3-core or 4-core cable, 3-phase a.c.
1	2	3	4	5	6	7
mm ²	A	A	A	A	A	A
1	16.5	14.5	18	16	19.5	17.5
1.5	21	18.5	23	20	25	22
2.5	29	25	32	28	34	30
4	38	33	43	37	46	40
6	48	43	55	48	59	52
10	66	58	76	66	81	71
16	87	77	103	88	109	94
25	114	100	136	117	144	123
35	139	122	168	144	177	151
50	167	147	201	174	213	186
70	211	185	256	222	272	237
95	254	222	310	269	329	287
120	292	256	359	312	381	333
150	320	287	413	359	438	383
185	368	326	470	409	499	437
240	439	381	553	482	587	515
300	509	436	636	555	675	593

Note : For rating factors of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Table 23 : Voltage Drop (Per Amp Per Meter)
[CU/EPR/CPE Cables]

Conductor Operating Temperature : 90°C

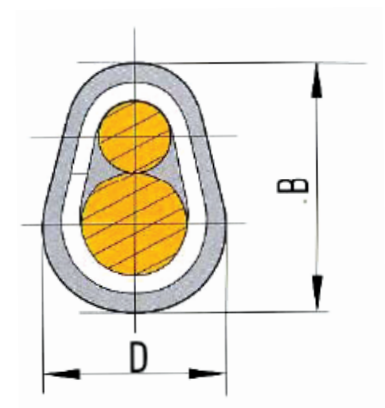
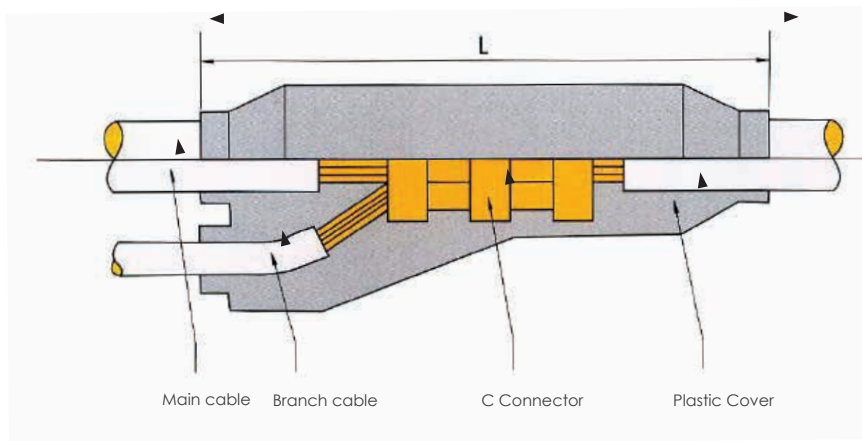
BS EN 50525-2-21

Conductor Cross-sectional Area	2-core cable, d.c.	2-core cable, 1-phase a.c.			3-core, 4-core or 5-core cables, 3-phase a.c.		
	2	r	x	z	r	x	z
1	46	46			46		
mm ²	mV/A/m	mV/A/m			mV/A/m		
1	46	46			46		
1.5	31	31			26		
2.5	19	19			16		
4	12	12			10		
6	7.7	7.7			6.7		
10	4.6	4.6			4.0		
16	2.9	2.9			2.5		
25	1.80	1.85	0.175	1.85	1.60	0.150	1.60
35	1.30	1.30	0.170	1.35	1.15	0.150	1.15
50	0.95	0.97	0.170	0.99	0.84	0.145	0.86
70	0.65	0.66	0.165	0.68	0.58	0.140	0.59
95	0.48	0.49	0.160	0.52	0.43	0.140	0.45
120	0.38	0.39	0.160	0.42	0.34	0.135	0.36
150	0.30	0.31	0.155	0.35	0.27	0.135	0.20
185	0.25	0.25	0.155	0.20	0.22	0.130	0.26
240	0.190	0.195	0.150	0.25	0.170	0.130	0.22
300	0.150	0.155	0.150	0.22	0.135	0.130	0.185

Note : r = resistive component; x = reactive component; z = impedance value

Table 24 : KEYFAB™ Prefabricated Branch Cables Size Reference

Main Cable	(mm ²)	25	35	50	70	70	95	120	95	120	150	185	240	185	240	300	400	400	500	630	800	1000
Branch Cable	(mm ²)	6 to 25	6 to 35	6 to 50	6 to 70	35 to 70	6 to 50	6 to 25	70 to 95	35 to 120	6 to 120	6 to 95	6 to 35	120	50 to 120	60 to 150	6 to 50	70 to 150	6 to 185	6 to 185	6 to 185	6 to 185
Reference Size	L (mm)	104	130	154	190	213	250	290														
	D (mm)	28	35	42	52	66	78	88														
	B (mm)	46	58	70	86	100	113	134														



KEYFAB™ Prefabricated Branch Cables Inspection and Testing

- Each connection made between the main and prefabricated branch cable employs a copper "C" type connector and is encapsulated in thermoplastic;
- The insulation Resistance value of the system is measured over 200MΩ at the factory;
- Cable with connectors can withstand dielectric voltage of 3.5kV for 5 minutes under one meter water pressure;
- The DC conductor resistance ratio between the connected cable system and the cables with same length is less than 1.2;
- Able to withstand 250 Heat Cycle Test;
- Cable system meets flame retardant requirement to IEC 60332.

Table 25 : Correction Factor for Ambient Air Temperature Other Than 30°C to be Applied to the Current-Carrying Capacities for Cables in Free Air

Ambient Temperature (°C)	Insulation				
	PVC (70°C)	XLPE (90°C)	HT-PVC (90°C)	Rubber (85°C)	Rubber (60°C)
10	1.22	1.15	-	-	-
15	1.17	1.12	-	-	-
20	1.12	1.08	-	-	-
25	1.06	1.04	1.03	1.02	-
30	1.00	1.00	1.00	1.00	1.00
35	0.94	0.96	0.97	0.95	0.91
40	0.87	0.91	0.94	0.90	0.82
45	0.79	0.87	0.91	0.85	0.71
50	0.71	0.82	0.87	0.80	0.58
55	0.61	0.76	0.84	0.74	0.41
60	0.50	0.71	0.80	0.67	-
65	0.35	0.65	0.76	0.60	-
70	-	0.58	0.71	0.52	-
75	-	0.50	0.61	0.43	-
80	-	0.41	0.50	0.30	-
85	-	0.29	0.35	-	-

Table 26 : Correction Factor for Ambient Ground Temperature Other Than 15°C to be Applied to the Current-Carrying Capacities for Cables in Ducts or in Ground

Ground Temperature (°C)	Insulation	
	PVC (70°C)	XLPE (90°C)
10	1.04	1.03
15	1.00	1.00
20	0.95	0.97
25	0.90	0.93
30	0.85	0.89
35	0.80	0.86
40	0.74	0.82
45	0.67	0.77
50	0.60	0.73
55	-	0.68
60	-	0.63
65	-	0.58