

EARTHING CABLE CU/XL-LSZH TO BS EN: 50525-3-41

CONSTRUCTION OF THE CABLE

CONDUCTORS	It is the current carrying component of the cable.
Material	Stranded plain annealed copper single core conductors
INSULATION	The rated voltage level of the cable depends on the dielectric strength and thickness of the insulation
Material	450/750V with XL-LSZH Sheathing Compound

CHARACTERISTICS

Voltage Rating	450/750 Volts
Temperature Rating	-15°C to +90°C
Minimum Bending Radius	As per cable manufacturer datasheet

STANDARDS

BS EN 50525-3-41	For LSZH Insulated Wiring
BS EN/IEC 60332-1-2	For Flame Retardant
BS7211	Old standard, currently withdrawn or superseded

CORE IDENTIFICATION

1 core	Red, Black, Yellow, Blue, Green/Yellow. (Other Color as per specified standard can also be manufactured)
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APPLICATION

Most suited for use in conduit and for fixed protection installation. Can be used in lighting installations, switch and control gear and also in appliances. The Low Smoke Zero Halogen outer sheath is ideal in applications where fire, smoke, emissions and toxic fumes would create a potential threat

	ITEM	No.	1	2	3	4	5
Sr #	Cu/PVC TO BS EN 50525-2-31	UNIT	1 x 1.5	1 x 2.5	1 x 4	1 x 6	1 x 10
1	Manufacturer		DUBAI CABLE COMPANY (PVT) LTD.				
2	Country of Origin		U.A.E				
3	Type of Cable		Cu/XL-LSZH				
4	Standard		BSEN : 50525-3-41				
5	Nominal voltage rating	Volts	450/750V				
6	Max. continuous current carrying capacity when laid						
	In air	Amps	19	26	35	45	63
7	Conductors :						
	Material		Plain Annealed Copper				
	No. of Cores	No.	1	1	1	1	1
	Nominal cross section	mm ²	1.5	2.5	4	6	10
8	Insulation of conductors :						
	Material		Extruded PVC				
	Minimum average thickness	mm	0.7	0.8	0.8	0.8	1
9	Approx. outer diameter of cable.	mm	3.2	3.8	4.4	4.9	6.3
10	Maximum DC Resistance of conductor at 20°C	Ohm/km	12.1	7.41	4.61	3.08	1.83
11	Maximum AC Resistance per core at 70°C(Approx)	Ohm/km	15.4	9.45	5.88	3.93	2.33
12	Maximum conductor operating temperature.	°C	90				
13	Voltage drop	mv/Amp/mt	27	16	10	6.8	4
14	Max. allowable tensile strength	Kgf	9	15	24	36	60
15	Minimum allowable bending radius	mm	10	12	14	15	19
16	Approx. weight of completed cable.	kg/km	22	33	49	69	116
17	Conditions of installations :						
18	Air temperature	°C	30				

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	ITEM	No.	7	8	9	10	11	12
Sr #	Cu/XLPE/PVC/SWA/PVC - BS 5467	UNIT	1x 16	1 x 25	1 x 35	1 x 50	1 x 70	1 x 95
1	Manufacturer		DUBAI CABLE COMPANY (PVT) LTD.					
2	Country of Origin		U.A.E					
3	Type of Cable		Cu/XL-LSZH					
4	Standard		BSEN : 50525-3-41					
5	Nominal voltage rating	Volts	450/750V					
6	Max. continuous current carrying capacity when laid							
	In air	Amps	85	111	138	168	214	259
7	Conductors :							
	Material		Plain Annealed Copper					
	No. of Cores	No.	1	1	1	1	1	1
	Nominal cross section	mm ²	16	25	35	50	70	95
8	Insulation of conductors :							
	Material		Extruded PVC					
	Minimum average thickness	mm	1	1.2	1.2	1.4	1.4	1.6
9	Approx. outer diameter of cable.	mm	7.1	8.8	9.9	11.4	13.1	15.3
10	Maximum DC Resistance of conductor at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193
11	Maximum AC Resistance per core at 70°C(Approx)	Ohm/km	1.47	0.927	0.668	0.494	0.342	0.247
12	Maximum conductor operating temperature.	°C	90					
13	Voltage drop	mv/Amp/mt	2.5	1.65	1.15	0.9	0.65	0.5
14	Max. allowable tensile strength	Kgf	96	150	210	300	420	570
15	Minimum allowable bending radius	mm	22	27	30	46	53	62
16	Approx. weight of completed cable.	kg/km	175	274	367	495	699	968
17	Conditions of installations :							
18	Air temperature	°C	30					

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	ITEM	No.	11	12	13	14	15
Sr #	Cu/PVC TO BS EN 50525-2-31	UNIT	1X120	1X150	1X185	1X240	1X300
1	Manufacturer		DUBAI CABLE COMPANY (PVT) LTD.				
2	Country of Origin		U.A.E				
3	Type of Cable		Cu/XL-LSZH				
4	Standard		BSEN : 50525-3-41				
5	Nominal voltage rating	Volts	450/750V				
6	Max. continuous current carrying capacity when laid						
	In air	Amps	299	328	370	433	493
7	Conductors :						
	Material		Plain Annealed Copper				
	No. of Cores	No.	1	1	1	1	1
	Nominal cross section	mm ²	120	150	185	240	300
8	Insulation of conductors :						
	Material		Extruded PVC				
	Minimum average thickness	mm	1.6	1.8	2	2.2	2.4
9	Approx. outer diameter of cable.	mm	16.7	18.6	20.7	23.6	26.3
10	Maximum DC Resistance of conductor at 20°C	Ohm/km	0.153	0.124	0.0991	0.0754	0.0601
11	Maximum AC Resistance per core at 70°C(Approx)	Ohm/km	0.197	0.16	0.128	0.0989	0.0802
12	Maximum conductor operating temperature.	°C	90				
13	Voltage drop	mv/Amp/mt	0.42	0.37	0.32	0.29	0.27
14	Max. allowable tensile strength	Kgf	720	900	1110	1440	1800
15	Minimum allowable bending radius	mm	67	75	83	95	158
16	Approx. weight of completed cable.	kg/km	1164	1413	1828	2320	2988
17	Conditions of installations :						
18	Air temperature	°C	30				