



Ali-Tube/LSZH Cable BS8436 300/500V

Plain annealed stranded copper conductor to BS6360/XLPE insulation to BS6889 / aluminium screen tube, applies longitudinally. CPC tinned annealed stranded copper to BS6360. LSZH sheath to BS EN 50267-2-1:1999 and BS EN 61034:2005.

Applications:	Power circuits, lighting, air-conditioning, call systems, data networks, signage supplies, computerised checkouts.
Voltage Rating:	300/500v
Operating temperature:	-20 to +90°C
Temperature rating:	Maximum conductor temperature 90°C
Min. bending radius:	9 x overall diameter
Flame retardant:	BSEN 60332-1, IEC 60332-1
Smoke emission:	BSEN 61034, IEC 61034-2
Acid gas emission	BSEN 50267-1-2, IEC60754-1
Walls and partitions	BS8436
Core colours:	2 core: brown and blue 3 core: brown, black and grey 4 core: brown, grey, blue and black
Sheath colour:	White or Black



No. of cores	Size sq.mm	Conductor No. strands/mm	CPC No. of stands/mm	Nominal insulation thickness mm	Nominal cable diameter mm	Approx weight of cable kg/1000m	BATT part No. White	BATT part No Black
2	1.5	7 / .53	7 / .53	0.7	9.6	105	12022	12033
2	2.5	7 / .67	7 / .67	0.8	10.7	137	12023	12034
2	4.0	7 / .85	7 / .85	0.8	11.0	209	12024	12042
2	6.0	7 / 1.04	7 / 1.04	0.8	13.2	260	12038	12049
3	1.35	7 / .53	7 / .53	0.7	10.2	140	12025	12035
3	2.5	7 / .67	7 / .67	0.8	11.0	184	12026	12036
3	4.0	7 / .85	7 / .85	0.8	13.2	267	12027	12055
3	6.0	7 / 1.04	7 / 1.04	0.8	14.2	330	12040	12056
4	1.5	7 / .53	7 / .53	0.7	11.0	160	12028	12031
4	2.5	7 / .67	7 / .67	0.8	13.2	258	12029	12032
4	4.0	7 / .85	7 / .85	0.8	13.8	320	12030	12051
4	6.0	7 / 1.04	7 / 1.04	0.8	-	-	-	-

Cable OD	Batt Part no. White	Batt Part no. Black	White Polyamide Glands	Black Polyamide Glands (1)	Black Polyamide Glands (2)	A2 Economy Brass	A2 Brass	A2 SOLO Brass	A2F Brass
9.6	12022	12033	44050	88743	44046	88850	88348	88662	88515
10.7	12023	12034	44050	88743	44046	88850	88348	88662	88515
11.0	12024	12042	44050	88744	44046	88851	88360	88663	88514
13.2	12038	12049	44091	88744	44047	88851	88360	88663	88514
10.2	12025	12035	44050	88743	44046	88850	88348	88662	88515
11.0	12026	12036	44050	88744	44046	88851	88360	88663	88514
13.2	12027	12055	44091	88744	44047	88851	88360	88663	88514
14.2	12040	12056	44091	88746	44047	88851	88362	88756	88518
11.0	12028	12031	44050	88744	44046	88851	88360	88663	88514
13.2	12029	12032	44091	88744	44047	88851	88360	88663	88514
13.8	12030	12051	44091	88746	44047	88851	88362	88756	88518

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Area sq.mm	Max DC resistance ohms/km at 20°C	Nominal AC resistance ohms/km at 90°C at 50Hz	Inductive reactance ohms/km at 50Hz	Max continuous conductor operating temperature °C	Short circuit rating in kA for 1 second
1.5	12.1	15.3	0.100	90	0.21
2.5	7.41	9.43	0.097	90	0.35
4.0	4.61	5.86	0.092	90	0.57
6.0	3.08	3.93	0.088	90	0.85

ERA Technology Results

Earthing capabilities of the screen under nail penetration test conditions:

The results have shown the screen on Guardian can withstand a fault current of over 200A, which is the fault current required to operate a 40A Type B circuit breaker instantaneously.

Impact resistance tests:

Guardian passed these conditions and eventually reached the level of a 1.0kg weight dropped from a height of 0.8m, at ambient temperatures thus exceeding the requirements of fire performance cables.