



**BS6724 AWA LSZH Cable IEC 60502 600/1000V**  
XLPE/LSZH/AWA/LSZH (COPPER) BS6724 & IEC60502

<b>Applications:</b>	Power cable suitable for power networks and direct burial, where fire and emissions of smoke and toxic fumes create a serious potential threat. Armoured LSZH power cable to British Standard BS6724 & IEC 60502 suitable for mains power networks
<b>Conductors:</b>	Plain annealed stranded copper
<b>Conductor stranding:</b>	Class 2 – stranded circular or circular compacted
<b>Insulation:</b>	XLPE (Cross linked polyethylene)
<b>Core identification:</b>	Brown
<b>Bedding:</b>	LSZH (Low smoke zero halogen)
<b>Armour/Protection:</b>	AWA (Aluminium wire armour) non-magnetic
<b>Sheath/Jacket:</b>	LSZH (Low smoke zero halogen)
<b>Colour:</b>	Black
<b>Voltage:</b>	600/1000v
<b>Operating temperature</b>	Maximum 90°C
<b>Conductor identification:</b>	Brown
<b>Minimum bending radius:</b>	6 x Overall diameter (wherever possible, larger installation radi should be used)
<b>Combustion characteristics:</b>	Oxygen index: 35 (Temperature index 280°C) HCL emission 0.5% in accordance with BSEN50267-1 common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Procedures, determination of the amount of halogen acid gas.
<b>Standard:</b>	BS6724: Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V, having low emission of smoke and corrosive gases when affected by fire BSEN50267-1 Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Apparatus BSEN50267-2-1: Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Procedures. Determination of the amount of halogen acid gas BSEN50266-1 Common test methods for cables under fire conditions. Test for vertical flame spread of vertically-mounted bunched wires or cables IEC 60502: Power cables with extruded insulation and their accessories for rated voltages from 1kV to 30kV BSEN/IEC60332-1-2: Tests on electric and optical fibre cables under fire conditions Part 1: test for vertical flame propagation for a single insulated wire or cable Section 2: procedure for 1kW pre-mixed flame BSEN61034-2:2005 Measurement of smoke density of cables burned under defined conditions. Test procedure and requirements Flame Propagation Test to BS EN 60332-1-2:2004 for single cable and BS EN 60332-3-24:2009 (Cat C) for multiple cables
<b>Notes:</b>	For current rating refer to Table 4E3A If you are considering installing in high UV exposure and/or high/low ambient temperatures i.e. desert/arctic conditions then special sheathing may be required



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Size sq.mm	Max diameter over conductor mm	RT of insulation mm	Diameter over core mm	RT of bedding mm	Diameter over bedding mm	Diameter of armour wire mm	Diameter over armour mm	Approx overall diameter mm	Weight kg/km	BATT Part No.
50	8.90	1.0	10.9	0.8	12.6	0.9	14.5	17.5	708	56415
70	10.70	1.0	12.9	14.6	14.6	1.25	17.1	20.2	970	56416
95	12.60	1.1	14.8	16.4	16.4	1.25	19.0	22.3	1240	56417
120	14.21	1.2	16.7	18.4	18.4	1.25	21.0	24.2	1510	56418
150	15.75	1.4	18.6	20.7	20.7	1.6	24.0	27.4	1930	56419
185	17.64	1.6	20.9	23.0	23.0	1.6	26.3	30.0	2330	56420
240	20.25	1.7	23.8	25.9	25.9	1.6	29.2	32.8	2900	56421
300	22.68	1.8	26.4	28.5	28.5	1.6	31.8	35.6	3530	56422
400	25.65	2.0	29.8	32.3	32.3	2.0	36.4	40.4	4690	56423
500	28.80	2.2	33.3	35.8	35.8	2.0	39.9	44.2	5740	56424
630	32.76	2.4	37.7	40.2	40.2	2.0	44.3	48.8	7150	56425
800	37.05	2.6	42.4	45.3	45.3	2.5	50.4	55.4	9300	56426
1000	41.60	2.8	47.3	50.2	50.2	2.5	55.3	60.6	11500	56427

Gland Selection Table					
Size sq.mm	Gland type/size	BATT Part No.	Size sq.mm	Gland type/size	BATT Part No.
50	CWA 20	88469	300	CWA 40	88391
70	CWA 25	88389	400	CWA 50S	88393
95	CWA 25	88389	500	CWA 50S	88393
120	CWA 25	88389	630	CWA 50S	88393
150	CWA 32	88697	800	CWA 63S	88395
185	CWA 32	88697	1000	CWA 63	88396
240	CWA 40	88391			

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