



11KV 3 core SWA LSZH Cable BS7835 IEC60502-2

Applications:	Power networks. Suitable for direct burial.
Conductor:	Plain annealed Circular compacted copper, class 2 stranded circular compacted conductors
Conductor identification:	Coloured tape, black, brown & grey
Insulation:	XLPE (Cross linked polyethylene)
Screen:	Semi-conducting layer with a copper tape screen covering each core
Inner sheath:	LSZH (Low smoke zero halogen)
Armour:	SWA (Single wire armour)
Outer sheath:	LSZH (Low smoke zero halogen)
Colour:	Red
Voltage:	6350/11000v
Operating temperature:	Maximum 90°C, minimum bending 0°C
Minimum bending radius:	12 x overall diameter
Standards:	BS7835: Specification for armoured cables with extruded cross-linked polyethylene or ethylene propylene rubber insulation for rated voltages from 3.8/6.6kV up to 19/33kV having low emission of smoke and corrosive gases when affected by fire IEC60502-2: Power cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV ($U_m=36kV$) Flame Propagation to BS EN 06332-1-2
Combustion characteristics	Oxygen index 35% (Temperature index 280°C) HCL Emission 0.35% in accordance with BS6425 Part 1 Low Smoke classification based on 3 metre cube test Complete cables comply with the requirements of fire test BSEN50266-1:2001 (previously BS4066 Part 1)



For current ratings refer to Table BEC108.

A full range of termination and installation accessories are available.

Size sq.mm	RT of insulation mm	Nominal diameter over copper screen mm	Nominal diameter over laid up cores mm	RT of bedding mm	Diameter over bedding mm	Diameter over armour wire mm	Diameter over armour mm	Nominal overall diameter mm	Weight Kg/km	BATT part no
25	3.4	16.8	36.3	1.3	38.9	2.5	43.9	48.9	4300	-
35	3.4	17.9	38.7	1.3	41.3	2.5	46.3	51.1	4600	56567
50	3.4	18.8	40.6	1.4	43.4	2.5	48.4	53.6	5400	56568
70	3.4	20.5	44.3	1.4	47.1	2.5	52.1	57.5	6300	56570
95	3.4	22.2	48.0	1.5	51.0	2.5	56	61.6	7500	56569
120	3.4	23.7	51.2	1.6	54.4	2.5	59.4	65.4	8700	56529
150	3.4	25.1	54.2	1.6	57.4	2.5	62.4	68.6	9700	56538
185	3.4	26.8	57.9	1.7	61.3	2.5	66.3	72.7	11400	56579
240	3.4	28.8	62.2	1.8	65.8	3.15	72.1	78.9	14300	56549
300	3.4	31.2	67.4	1.9	71.2	3.15	77.5	84.7	16600	56598
400	3.4	34.4	74.3	2.0	78.3	3.15	84.6	92.2	20000	56150



Size mm ²	Electrical Data		Current Ratings			Short circuit ratings	
	Max DC resistance of conductor at 20°C μOhms/m	Max AC resistance of conductor at 90°C μOhms/m	Laid in ground amps	Drawn into twin wall ducts amps	Laid in air amps	One second short circuit rating of conductor kA	One second short circuit rating of armour kA
70	268	342	255	210	280	10	11.0
95	193	246	300	250	340	13.6	11.8
120	153	195	340	280	390	17.2	12.7
150	124	158	385	320	440	21.5	13.4
185	99.1	126	430	360	505	26.5	14.2
240	75.4	97	490	410	575	34.3	19.7
300	60.1	77	550	460	655	42.9	21.0
400	47.0	60	625	525	755	57.2	23.1

Current rating conditions:

Ground temperature: 15°C

Ambient temperature (air): 25°C

Depth of burial 0.8m

Thermal resistance of soil: 1.2°C m/W