



## BRITISH STANDARD LOW SMOKE MV CABLE

BS 7835

30 orderable sizes

STANDARD BS 7835	VOLTAGE CLASS 3.6/6 kV to 18/30 kV and customer-specified MV classes	CONDUCTOR Copper or aluminium conductor
INSULATION / JACKET LSZH		

### Construction

- 1 ■ Conductor – Copper conductor · 19 × Ø2.52 mm · IEC 60228 cl.2
- 2 ■ Conductor screen – Semi-conducting layer
- 3 ■ Insulation – XLPE
- 4 ■ Insulation screen – Semi-conducting layer
- 5 ■ Metallic screen – Copper wire screen (CWS)
- 6 ■ Bedding – PVC bedding
- 7 ■ Armour – Aluminium / steel wire armour
- 8 ■ Sheath – LSZH

### Size selection — all available cross-sections

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 25 mm <sup>2</sup> LSZH	3.6/6 kV	25 mm <sup>2</sup>	0.727 Ω/km	16 mm <sup>2</sup> copper wire screen	31 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 50 mm <sup>2</sup> LSZH	3.6/6 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	34 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 95 mm <sup>2</sup> LSZH	3.6/6 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	39 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 150 mm <sup>2</sup> LSZH	3.6/6 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	43 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 240 mm <sup>2</sup> LSZH	3.6/6 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	48 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Copper 400 mm <sup>2</sup> LSZH	3.6/6 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 35 mm <sup>2</sup> LSZH	6/10 kV	35 mm <sup>2</sup>	0.524 Ω/km	16 mm <sup>2</sup> copper wire screen	32 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 70 mm <sup>2</sup> LSZH	6/10 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	36 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 120 mm <sup>2</sup> LSZH	6/10 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	41 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 185 mm <sup>2</sup> LSZH	6/10 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	45 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 300 mm <sup>2</sup> LSZH	6/10 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Copper 500 mm <sup>2</sup> LSZH	6/10 kV	500 mm <sup>2</sup>	0.0366 Ω/km	35 mm <sup>2</sup> copper wire screen	60 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 50 mm <sup>2</sup> LSZH	8.7/15 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	34 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 95 mm <sup>2</sup> LSZH	8.7/15 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	39 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 150 mm <sup>2</sup> LSZH	8.7/15 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	43 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 240 mm <sup>2</sup> LSZH	8.7/15 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	48 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 400 mm <sup>2</sup> LSZH	8.7/15 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Copper 630 mm <sup>2</sup> LSZH	8.7/15 kV	630 mm <sup>2</sup>	0.0283 Ω/km	35 mm <sup>2</sup> copper wire screen	65 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 50 mm <sup>2</sup> LSZH	12/20 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	37 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 95 mm <sup>2</sup> LSZH	12/20 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	42 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 150 mm <sup>2</sup> LSZH	12/20 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	46 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 240 mm <sup>2</sup> LSZH	12/20 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 400 mm <sup>2</sup> LSZH	12/20 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	59 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Copper 630 mm <sup>2</sup> LSZH	12/20 kV	630 mm <sup>2</sup>	0.0283 Ω/km	35 mm <sup>2</sup> copper wire screen	68 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 70 mm <sup>2</sup> LSZH	18/30 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	42 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 120 mm <sup>2</sup> LSZH	18/30 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	47 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 185 mm <sup>2</sup> LSZH	18/30 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 300 mm <sup>2</sup> LSZH	18/30 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	57 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 500 mm <sup>2</sup> LSZH	18/30 kV	500 mm <sup>2</sup>	0.0366 Ω/km	35 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Copper 630 mm <sup>2</sup> LSZH	18/30 kV	630 mm <sup>2</sup>	0.0283 Ω/km	35 mm <sup>2</sup> copper wire screen	71 mm
Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium 25 mm <sup>2</sup> LSZH	3.6/6 kV	25 mm <sup>2</sup>	1.20 Ω/km	16 mm <sup>2</sup> copper wire screen	31 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium 50 mm <sup>2</sup> LSZH	3.6/6 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	34 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium 95 mm <sup>2</sup> LSZH	3.6/6 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	39 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium	3.6/6 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	43 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
150 mm <sup>2</sup> LSZH					
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium 240 mm <sup>2</sup> LSZH	3.6/6 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	48 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Single core Aluminium 400 mm <sup>2</sup> LSZH	3.6/6 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 35 mm <sup>2</sup> LSZH	6/10 kV	35 mm <sup>2</sup>	0.868 Ω/km	16 mm <sup>2</sup> copper wire screen	32 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 70 mm <sup>2</sup> LSZH	6/10 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	36 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 120 mm <sup>2</sup> LSZH	6/10 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	41 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 185 mm <sup>2</sup> LSZH	6/10 kV	185 mm <sup>2</sup>	0.164 Ω/km	25 mm <sup>2</sup> copper wire screen	45 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 300 mm <sup>2</sup> LSZH	6/10 kV	300 mm <sup>2</sup>	0.100 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Single core Aluminium 500 mm <sup>2</sup> LSZH	6/10 kV	500 mm <sup>2</sup>	0.0605 Ω/km	35 mm <sup>2</sup> copper wire screen	60 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 50 mm <sup>2</sup> LSZH	8.7/15 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	34 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 95 mm <sup>2</sup> LSZH	8.7/15 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	39 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 150 mm <sup>2</sup> LSZH	8.7/15 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	43 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 240 mm <sup>2</sup> LSZH	8.7/15 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	48 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 400 mm <sup>2</sup> LSZH	8.7/15 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Single core Aluminium 630 mm <sup>2</sup> LSZH	8.7/15 kV	630 mm <sup>2</sup>	0.0469 Ω/km	35 mm <sup>2</sup> copper wire screen	65 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 50 mm <sup>2</sup> LSZH	12/20 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	37 mm

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BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 95 mm <sup>2</sup> LSZH	12/20 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	42 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 150 mm <sup>2</sup> LSZH	12/20 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	46 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 240 mm <sup>2</sup> LSZH	12/20 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 400 mm <sup>2</sup> LSZH	12/20 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	59 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Single core Aluminium 630 mm <sup>2</sup> LSZH	12/20 kV	630 mm <sup>2</sup>	0.0469 Ω/km	35 mm <sup>2</sup> copper wire screen	68 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 70 mm <sup>2</sup> LSZH	18/30 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	42 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 120 mm <sup>2</sup> LSZH	18/30 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	47 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 185 mm <sup>2</sup> LSZH	18/30 kV	185 mm <sup>2</sup>	0.164 Ω/km	25 mm <sup>2</sup> copper wire screen	51 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 300 mm <sup>2</sup> LSZH	18/30 kV	300 mm <sup>2</sup>	0.100 Ω/km	25 mm <sup>2</sup> copper wire screen	57 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 500 mm <sup>2</sup> LSZH	18/30 kV	500 mm <sup>2</sup>	0.0605 Ω/km	35 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Single core Aluminium 630 mm <sup>2</sup> LSZH	18/30 kV	630 mm <sup>2</sup>	0.0469 Ω/km	35 mm <sup>2</sup> copper wire screen	71 mm
Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Copper 25 mm <sup>2</sup> LSZH	3.6/6 kV	25 mm <sup>2</sup>	0.727 Ω/km	16 mm <sup>2</sup> copper wire screen	55 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Copper 50 mm <sup>2</sup> LSZH	3.6/6 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Copper 95 mm <sup>2</sup> LSZH	3.6/6 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Copper 150 mm <sup>2</sup>	3.6/6 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
LSZH					
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Copper 240 mm <sup>2</sup> LSZH	3.6/6 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Copper 35 mm <sup>2</sup> LSZH	6/10 kV	35 mm <sup>2</sup>	0.524 Ω/km	16 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Copper 70 mm <sup>2</sup> LSZH	6/10 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	60 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Copper 120 mm <sup>2</sup> LSZH	6/10 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	65 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Copper 185 mm <sup>2</sup> LSZH	6/10 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	69 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Copper 300 mm <sup>2</sup> LSZH	6/10 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Copper 50 mm <sup>2</sup> LSZH	8.7/15 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Copper 95 mm <sup>2</sup> LSZH	8.7/15 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Copper 150 mm <sup>2</sup> LSZH	8.7/15 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Copper 240 mm <sup>2</sup> LSZH	8.7/15 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Copper 400 mm <sup>2</sup> LSZH	8.7/15 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	80 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Copper 50 mm <sup>2</sup> LSZH	12/20 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	61 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Copper 95 mm <sup>2</sup> LSZH	12/20 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Copper 150 mm <sup>2</sup> LSZH	12/20 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	70 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Copper 240 mm <sup>2</sup> LSZH	12/20 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Copper 400 mm <sup>2</sup> LSZH	12/20 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	83 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Copper 70 mm <sup>2</sup> LSZH	18/30 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Copper 120 mm <sup>2</sup> LSZH	18/30 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	71 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Copper 185 mm <sup>2</sup> LSZH	18/30 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Copper 300 mm <sup>2</sup> LSZH	18/30 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	81 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Copper 400 mm <sup>2</sup> LSZH	18/30 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	86 mm
Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Aluminium 25 mm <sup>2</sup> LSZH	3.6/6 kV	25 mm <sup>2</sup>	1.20 Ω/km	16 mm <sup>2</sup> copper wire screen	55 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Aluminium 50 mm <sup>2</sup> LSZH	3.6/6 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Aluminium 95 mm <sup>2</sup> LSZH	3.6/6 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Aluminium 150 mm <sup>2</sup> LSZH	3.6/6 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
BS 7835 XLPE/AWA/SWA/LSZH 3.6/6 kV Three core Aluminium 240 mm <sup>2</sup> LSZH	3.6/6 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Aluminium 35 mm <sup>2</sup> LSZH	6/10 kV	35 mm <sup>2</sup>	0.868 Ω/km	16 mm <sup>2</sup> copper wire screen	56 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Aluminium 70 mm <sup>2</sup> LSZH	6/10 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	60 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Aluminium 120 mm <sup>2</sup> LSZH	6/10 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	65 mm
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Aluminium 185 mm <sup>2</sup> LSZH	6/10 kV	185 mm <sup>2</sup>	0.164 Ω/km	25 mm <sup>2</sup> copper wire screen	69 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
LSZH					
BS 7835 XLPE/AWA/SWA/LSZH 6/10 kV Three core Aluminium 300 mm <sup>2</sup> LSZH	6/10 kV	300 mm <sup>2</sup>	0.100 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Aluminium 50 mm <sup>2</sup> LSZH	8.7/15 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Aluminium 95 mm <sup>2</sup> LSZH	8.7/15 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Aluminium 150 mm <sup>2</sup> LSZH	8.7/15 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Aluminium 240 mm <sup>2</sup> LSZH	8.7/15 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
BS 7835 XLPE/AWA/SWA/LSZH 8.7/15 kV Three core Aluminium 400 mm <sup>2</sup> LSZH	8.7/15 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	80 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Aluminium 50 mm <sup>2</sup> LSZH	12/20 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	61 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Aluminium 95 mm <sup>2</sup> LSZH	12/20 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Aluminium 150 mm <sup>2</sup> LSZH	12/20 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	70 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Aluminium 240 mm <sup>2</sup> LSZH	12/20 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
BS 7835 XLPE/AWA/SWA/LSZH 12/20 kV Three core Aluminium 400 mm <sup>2</sup> LSZH	12/20 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	83 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Aluminium 70 mm <sup>2</sup> LSZH	18/30 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Aluminium 120 mm <sup>2</sup> LSZH	18/30 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	71 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Aluminium 185 mm <sup>2</sup> LSZH	18/30 kV	185 mm <sup>2</sup>	0.164 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Aluminium 300 mm <sup>2</sup> LSZH	18/30 kV	300 mm <sup>2</sup>	0.100 Ω/km	25 mm <sup>2</sup> copper wire screen	81 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
BS 7835 XLPE/AWA/SWA/LSZH 18/30 kV Three core Aluminium 400 mm <sup>2</sup> LSZH	18/30 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	86 mm

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