



MEDIUM-VOLTAGE LOW SMOKE ARMoured CABLE

BS 7835

22 orderable sizes

STANDARD BS 7835	VOLTAGE CLASS 6.35/11 kV, 19/33 kV	CONDUCTOR Copper or aluminium conductor
INSULATION / JACKET LSZH outer sheath		

Construction

- 1 Conductor – Aluminium conductor · 37 × Ø2.03 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 outer sheath

Size selection — all available cross-sections

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 35 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	35 mm ²	Copper conductor	Aluminium wire armour	0.524 Ω/km	38 mm	2.9 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 70 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	70 mm ²	Copper conductor	Aluminium wire armour	0.268 Ω/km	42 mm	3.4 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 120 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	120 mm ²	Copper conductor	Aluminium wire armour	0.153 Ω/km	47 mm	4.0 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 185 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	185 mm ²	Copper conductor	Aluminium wire armour	0.0991 Ω/km	51 mm	4.9 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 300 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	300 mm ²	Copper conductor	Aluminium wire armour	0.0601 Ω/km	57 mm	6.5 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Copper 500 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	500 mm ²	Copper conductor	Aluminium wire armour	0.0366 Ω/km	66 mm	9.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Copper 35 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	35 mm ²	Copper conductor	Steel wire armour	0.524 Ω/km	62 mm	3.8 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Copper 70 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	70 mm ²	Copper conductor	Steel wire armour	0.268 Ω/km	66 mm	5.2 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Copper 120 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	120 mm ²	Copper conductor	Steel wire armour	0.153 Ω/km	71 mm	7.2 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Copper 185 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	185 mm ²	Copper conductor	Steel wire armour	0.0991 Ω/km	75 mm	9.7 kg/m
BS 7835 XLPE/AWA/SWA/LSZH	6.35/11 kV	Three core	300 mm ²	Copper conductor	Steel wire armour	0.0601 Ω/km	81 mm	14.3 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
6.35/11 kV Three core Copper 300 mm ² Steel wire armour LSZH outer sheath								
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 70 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	70 mm ²	Copper conductor	Aluminium wire armour	0.268 Ω/km	48 mm	3.4 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 120 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	120 mm ²	Copper conductor	Aluminium wire armour	0.153 Ω/km	53 mm	4.0 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 185 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	185 mm ²	Copper conductor	Aluminium wire armour	0.0991 Ω/km	57 mm	4.9 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 300 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	300 mm ²	Copper conductor	Aluminium wire armour	0.0601 Ω/km	63 mm	6.5 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 500 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	500 mm ²	Copper conductor	Aluminium wire armour	0.0366 Ω/km	72 mm	9.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Copper 630 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	630 mm ²	Copper conductor	Aluminium wire armour	0.0283 Ω/km	77 mm	11.1 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Copper 70 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	70 mm ²	Copper conductor	Steel wire armour	0.268 Ω/km	72 mm	5.2 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Copper 120 mm ² Steel wire	19/33 kV	Three core	120 mm ²	Copper conductor	Steel wire armour	0.153 Ω/km	77 mm	7.2 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
armour LSZH outer sheath								
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Copper 185 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	185 mm ²	Copper conductor	Steel wire armour	0.0991 Ω/km	81 mm	9.7 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Copper 300 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	300 mm ²	Copper conductor	Steel wire armour	0.0601 Ω/km	87 mm	14.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Copper 400 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	400 mm ²	Copper conductor	Steel wire armour	0.0470 Ω/km	92 mm	18.2 kg/m
Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 35 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	35 mm ²	Aluminium conductor	Aluminium wire armour	0.868 Ω/km	38 mm	2.6 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 70 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	70 mm ²	Aluminium conductor	Aluminium wire armour	0.443 Ω/km	42 mm	2.8 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 120 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	120 mm ²	Aluminium conductor	Aluminium wire armour	0.253 Ω/km	47 mm	3.1 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 185 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	185 mm ²	Aluminium conductor	Aluminium wire armour	0.164 Ω/km	51 mm	3.4 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 300 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	300 mm ²	Aluminium conductor	Aluminium wire armour	0.100 Ω/km	57 mm	4.1 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
Aluminium 300 mm ² Aluminium wire armour LSZH outer sheath								
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Single core Aluminium 500 mm ² Aluminium wire armour LSZH outer sheath	6.35/11 kV	Single core	500 mm ²	Aluminium conductor	Aluminium wire armour	0.0605 Ω/km	66 mm	5.2 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Aluminium 35 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	35 mm ²	Aluminium conductor	Steel wire armour	0.868 Ω/km	62 mm	3.0 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Aluminium 70 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	70 mm ²	Aluminium conductor	Steel wire armour	0.443 Ω/km	66 mm	3.5 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Aluminium 120 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	120 mm ²	Aluminium conductor	Steel wire armour	0.253 Ω/km	71 mm	4.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Aluminium 185 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	185 mm ²	Aluminium conductor	Steel wire armour	0.164 Ω/km	75 mm	5.4 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 6.35/11 kV Three core Aluminium 300 mm ² Steel wire armour LSZH outer sheath	6.35/11 kV	Three core	300 mm ²	Aluminium conductor	Steel wire armour	0.100 Ω/km	81 mm	7.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Aluminium 70 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	70 mm ²	Aluminium conductor	Aluminium wire armour	0.443 Ω/km	48 mm	2.8 kg/m

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BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Aluminium 185 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	185 mm ²	Aluminium conductor	Aluminium wire armour	0.164 Ω/km	57 mm	3.4 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Aluminium 300 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	300 mm ²	Aluminium conductor	Aluminium wire armour	0.100 Ω/km	63 mm	4.1 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Aluminium 500 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	500 mm ²	Aluminium conductor	Aluminium wire armour	0.0605 Ω/km	72 mm	5.2 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Single core Aluminium 630 mm ² Aluminium wire armour LSZH outer sheath	19/33 kV	Single core	630 mm ²	Aluminium conductor	Aluminium wire armour	0.0469 Ω/km	77 mm	5.9 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Aluminium 70 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	70 mm ²	Aluminium conductor	Steel wire armour	0.443 Ω/km	72 mm	3.5 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Aluminium 120 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	120 mm ²	Aluminium conductor	Steel wire armour	0.253 Ω/km	77 mm	4.3 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Aluminium 185 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	185 mm ²	Aluminium conductor	Steel wire armour	0.164 Ω/km	81 mm	5.4 kg/m
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Aluminium 300 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	300 mm ²	Aluminium conductor	Steel wire armour	0.100 Ω/km	87 mm	7.3 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
kV Three core Aluminium 300 mm ² Steel wire armour LSZH outer sheath								
BS 7835 XLPE/AWA/SWA/LSZH 19/33 kV Three core Aluminium 400 mm ² Steel wire armour LSZH outer sheath	19/33 kV	Three core	400 mm ²	Aluminium conductor	Steel wire armour	0.0778 Ω/km	92 mm	8.9 kg/m

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