



FIRE RESISTANT ARMoured CABLE

BS 7846

63 orderable sizes

STANDARD BS 7846	VOLTAGE CLASS 0.6/1 kV	CONDUCTOR Copper conductor
INSULATION / JACKET LSZH outer sheath		

Construction

- 1 ■ **Conductor (per core)** – Copper conductor · 7 × Ø2.13 mm · IEC 60228 cl.2
- 2 ■ **Core insulation** – Mica fire barrier with XLPE insulation
- 3 ■ **Filler** – PP filler
- 4 ■ **Bedding** – PVC bedding
- 5 ■ **Armour** – Galvanised steel wire armour (SWA)
- 6 ■ **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 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 16 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	16 mm ²	Copper conductor	Aluminium wire armour	1.15 Ω/km	29 mm	0.93 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 25 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	25 mm ²	Copper conductor	Aluminium wire armour	0.727 Ω/km	31 mm	1.02 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 50 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	50 mm ²	Copper conductor	Aluminium wire armour	0.387 Ω/km	36 mm	1.30 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 70 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	70 mm ²	Copper conductor	Aluminium wire armour	0.268 Ω/km	39 mm	1.52 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 95 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	95 mm ²	Copper conductor	Aluminium wire armour	0.193 Ω/km	42 mm	1.79 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 150 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	150 mm ²	Copper conductor	Aluminium wire armour	0.124 Ω/km	47 mm	2.40 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 240 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	240 mm ²	Copper conductor	Aluminium wire armour	0.0754 Ω/km	54 mm	3.39 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 1C Copper 400 mm ² Aluminium wire armour LSZH outer sheath	0.6/1 kV	1C	400 mm ²	Copper conductor	Aluminium wire armour	0.0470 Ω/km	64 mm	5.15 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 1.5 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	1.5 mm ²	Copper conductor	Steel wire armour	12.1 Ω/km	25 mm	0.78 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 2.5 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	2.5 mm ²	Copper conductor	Steel wire armour	7.41 Ω/km	26 mm	0.80 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 4 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	4 mm ²	Copper conductor	Steel wire armour	4.61 Ω/km	27 mm	0.84 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 6 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	6 mm ²	Copper conductor	Steel wire armour	3.08 Ω/km	28 mm	0.88 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 10 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	10 mm ²	Copper conductor	Steel wire armour	1.83 Ω/km	30 mm	0.97 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 16 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	16 mm ²	Copper conductor	Steel wire armour	1.15 Ω/km	31 mm	1.10 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 25 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	25 mm ²	Copper conductor	Steel wire armour	0.727 Ω/km	34 mm	1.30 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 35 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	35 mm ²	Copper conductor	Steel wire armour	0.524 Ω/km	36 mm	1.52 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 50 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	50 mm ²	Copper conductor	Steel wire armour	0.387 Ω/km	38 mm	1.85 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 70 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	70 mm ²	Copper conductor	Steel wire armour	0.268 Ω/km	41 mm	2.29 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 95 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	95 mm ²	Copper conductor	Steel wire armour	0.193 Ω/km	44 mm	2.84 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 120 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	120 mm ²	Copper conductor	Steel wire armour	0.153 Ω/km	47 mm	3.39 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 150 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	150 mm ²	Copper conductor	Steel wire armour	0.124 Ω/km	50 mm	4.05 kg/m

Cable reference	Voltage class	Core layout	Cross-section	Conductor	Armour	Max DC resistance at 20 °C	OD guide	Weight guide
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 185 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	185 mm ²	Copper conductor	Steel wire armour	0.0991 Ω/km	53 mm	4.82 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 2C Copper 240 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	2C	240 mm ²	Copper conductor	Steel wire armour	0.0754 Ω/km	57 mm	6.03 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 1.5 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	1.5 mm ²	Copper conductor	Steel wire armour	12.1 Ω/km	28 mm	0.80 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 2.5 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	2.5 mm ²	Copper conductor	Steel wire armour	7.41 Ω/km	28 mm	0.83 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 4 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	4 mm ²	Copper conductor	Steel wire armour	4.61 Ω/km	29 mm	0.88 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 6 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	6 mm ²	Copper conductor	Steel wire armour	3.08 Ω/km	30 mm	0.95 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 10 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	10 mm ²	Copper conductor	Steel wire armour	1.83 Ω/km	32 mm	1.08 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 16 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	16 mm ²	Copper conductor	Steel wire armour	1.15 Ω/km	34 mm	1.28 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 25 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	25 mm ²	Copper conductor	Steel wire armour	0.727 Ω/km	36 mm	1.57 kg/m

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BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 35 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	35 mm ²	Copper conductor	Steel wire armour	0.524 Ω/km	38 mm	1.91 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 50 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	50 mm ²	Copper conductor	Steel wire armour	0.387 Ω/km	40 mm	2.40 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 70 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	70 mm ²	Copper conductor	Steel wire armour	0.268 Ω/km	43 mm	3.06 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 95 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	95 mm ²	Copper conductor	Steel wire armour	0.193 Ω/km	46 mm	3.88 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 120 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	120 mm ²	Copper conductor	Steel wire armour	0.153 Ω/km	49 mm	4.71 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 150 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	150 mm ²	Copper conductor	Steel wire armour	0.124 Ω/km	52 mm	5.70 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 185 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	185 mm ²	Copper conductor	Steel wire armour	0.0991 Ω/km	55 mm	6.85 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 3C Copper 240 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	3C	240 mm ²	Copper conductor	Steel wire armour	0.0754 Ω/km	59 mm	8.67 kg/m
BS 7846 fire resistant armoured LSZH 0.6/1 kV 4C Copper 1.5 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	4C	1.5 mm ²	Copper conductor	Steel wire armour	12.1 Ω/km	30 mm	0.82 kg/m

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BS 7846 fire resistant armoured LSZH 0.6/1 kV 4C Copper 4 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	4C	4 mm ²	Copper conductor	Steel wire armour	4.61 Ω/km	32 mm	0.93 kg/m
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BS 7846 fire resistant armoured LSZH 0.6/1 kV 4C Copper 10 mm ² Steel wire armour LSZH outer sheath	0.6/1 kV	4C	10 mm ²	Copper conductor	Steel wire armour	1.83 Ω/km	34 mm	1.19 kg/m
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