



BRITISH STANDARD LV ABC

BS 7870-5

16 orderable sizes

STANDARD BS 7870-5	VOLTAGE CLASS 0.6/1 kV	CONDUCTOR 16 mm² aluminium, 25 mm² aluminium, 35 mm² aluminium, 50 mm² aluminium, 70 mm² aluminium, 95 mm² aluminium, 120 mm² aluminium, 150 mm² aluminium
INSULATION / JACKET Black weather resistant XLPE surface		

Construction

- 1 **Conductor (per core)** – Class 2 stranded aluminium conductor
- 2 **Core insulation** – XLPE insulation with rib identification · Wall XLPE insulation with rib identification mm

Size selection — all available cross-sections

Cable reference	Voltage class	Bundle layout	Phase conductor	Neutral / messenger	Insulation	Screen / support	Max DC resistance at 20 °C	Bundle OD guide	Weight guide
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 16 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	16 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	1.91 Ω/km	21 mm	0.50 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 25 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	25 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	1.20 Ω/km	22 mm	0.58 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 35 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	35 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.868 Ω/km	24 mm	0.68 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 50 mm ² 50 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	50 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.641 Ω/km	25 mm	0.89 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 70 mm ² 50 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	70 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.443 Ω/km	27 mm	1.07 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 95 mm ² aluminium	0.6/1 kV	2 core service bundle	95 mm ² stranded aluminium	70 mm ² insulated	XLPE insulation	Self-supporting	0.320 Ω/km	29 mm	1.36 kg/m

Cable reference	Voltage class	Bundle layout	Phase conductor	Neutral / messenger	Insulation	Screen / support	Max DC resistance at 20 °C	Bundle OD guide	Weight guide
70 mm ² insulated aluminium neutral			phase conductor	aluminium neutral	with rib identification	bundled construction			
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 120 mm ² 70 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	120 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.253 Ω/km	30 mm	1.58 kg/m
BS 7870-5 LV ABC 0.6/1 kV 2 core service bundle 150 mm ² 70 mm ² insulated aluminium neutral	0.6/1 kV	2 core service bundle	150 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.206 Ω/km	32 mm	1.85 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 16 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	16 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	1.91 Ω/km	22 mm	0.75 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 25 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	25 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	1.20 Ω/km	24 mm	0.91 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 35 mm ² 25 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	35 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.868 Ω/km	25 mm	1.09 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 50 mm ² 50 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	50 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.641 Ω/km	26 mm	1.44 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 70 mm ² 50 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	70 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.443 Ω/km	28 mm	1.80 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 95 mm ² 70 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	95 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.320 Ω/km	30 mm	2.31 kg/m
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 120 mm ² 70 mm ² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	120 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self-supporting bundled construction	0.253 Ω/km	32 mm	2.76 kg/m

Cable reference	Voltage class	Bundle layout	Phase conductor	Neutral / messenger	Insulation	Screen / support	Max DC resistance at 20 °C	Bundle OD guide	Weight guide
BS 7870-5 LV ABC 0.6/1 kV 4 core distribution bundle 150 mm² 70 mm² insulated aluminium neutral	0.6/1 kV	4 core distribution bundle	150 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation with rib identification	Self- supporting bundled construction	0.206 Ω/km	33 mm	3.30 kg/m