

1-Core, Solid Aluminium Conductors, XLPE Insulation, CNE Service Cables, 600/1000 Volt to BS7870-3.11

Constructional Data

Nominal cross-sectional area mm ²	Nominal Diameter of centre phase conductor mm	Concentric neutral/earth conductor		Approximate thickness of XLPE insulation mm	Approximate thickness of PVC oversheath mm	Approximate diameter overall mm
		Number of wires mm	Nominal diameter of wires mm			
25	5.58	27	0.85	0.9	1.4	13
35	6.58	25	1.04	0.9	1.4	13.7

Installation Data

Nominal cross-sectional area mm ²	Approximate cable weight kg/m	Minimum bending radius mm	Nominal internal diameter of ducts mm
25	0.33	125	100
35	0.405	125	100

Electrical Data

Nominal cross-sectional area mm ²	Maximum DC resistance of phase conductor @ 20°C ohms/km	Maximum DC resistance of neutral/earth conductor @ 20°C ohms/km	Maximum AC resistance of conductor @ 70°C ohms/km	Approximate impedance @ 50Hz ohms/km
25	1.2	1.3	1.442	1.45
35	0.868	0.91	1.042	1.05

Current Ratings

Nominal cross-sectional area mm ²	Direct in ground Amps	In ducts Amps	In air Amps
25	120	89	92
35	144	106	113

Current rating conditions

Ground temperature 15°C
 Ambient temperature (Air) 25°C
 Depth of burial (to centre of cable) 500mm
 Thermal resistance of soil 1.2°C m/W



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
 TEL 0044 191 490 1547 FAX 0044 477 5371
 TEL 0044 117 977 4647 FAX 0044 977 5582
 WWW.THORNEANDDERRICK.CO.UK



Formerly Pirelli Cables