3-Core, Aluminium Conductors XLPE Insulation, Plain Copper Waveform Cables, 600/1000V to BS7870 Sector 3.4

CABLE DESCRIPTION

1.CONDUCTOR
Solid Aluminium Conductor

2.INSULATION
XLPE Insulation

3.BEDDING
Bedding material

4.WAVEFORM WIRES
Copper waveform wires

5.SHEATH
PVC Sheath

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PRYSMIAN CABLES & SYSTEMS

Formerly Pirelli Cables

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Constructional Data

Nominal crosssectional data mm²	Minimum average thickness of insulation mm	Concentric neutral/earth conductor			Minimum average thickness of oversheath mm	Approximate diameter overall mm
		Number of wires mm	Nominal diamter of wires mm	Nominal wavelength of wires mm		
35	0.9	26	1.04	220	1.8	27
95	1.1	22	1.85	250	2.1	35
185	1.6	41	1.85	300	2.5	46
300	1.8	41	1.85	375	2.8	55

Installation Data

Nominal crosssectional data mm²	Approximate cable weight kg/m	Minimum bending radius mm	Nominal internal diameter of ducts mm
35	1.1	450	75
95	2.3	550	100
185	4	700	100
300	5.4	850	100

Electrical Data

Nominal crosssectional area mm²	Maximum DC resistance of phase conductor @ 20C ohms/km	Maximum DC resistance of neutral/earth conductor @ 20C ohms/km	Maximum AC resistance of conductor @ 90C ohms/km	Approximate reactance @ 50Hz ohms/km
35	0.868	0.868	1.111	0.0780
95	0.320	0.320	0.411	0.0735
185	0.164	0.164	0.212	0.0740
300	0.100	0.164	0.130	0.0725

Current ratings

Nominal crosssectional area mm²	Direct in ground Amps	In ducts Amps	In air Amps
35	140	115	130
95	245	200	240
185	355	290	370
300	465	385	505

Tg = 15°C
Ta = 25°C
g = 1.2°C m/W
Depth = 500mm

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