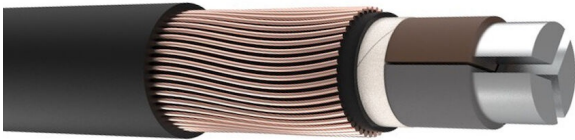


BS 7870-3.40 AL PVC

PVC "WAVEFORM" Aluminium Conductor. BS7870-3.40. 600/1000V



Waveform cable is used by Distribution Network Operators and Independent Distribution Network Operators to power housing estates throughout the United Kingdom. 1kV Waveform is a standard specification taken across all Utility networks in the United Kingdom.

KEY APPLICATIONS

A 3-core cable is required for a CNE system, the Cu wires forming a Combined Neutral & Earth.

A 4-core cable is required for a SNE system where the fourth core is used as a neutral and the Cu wires form a Separate Earth.

FEATURES AND BENEFITS

Shaped Solid Aluminium Conductor

XLPE Insulation

Rubber Bedding

Waveform Copper Wire Screen

PVC Oversheath

STANDARDS

CONSTRUCTION

Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	600
Nominal voltage U [V]	1,000
Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	90
Outdoor installation	Yes
Underground installation	Yes

COLOURS

Insulation: Three Cores: Brown, Black, Grey;

Four Cores: Brown, Black, Grey, Blue;

Sheath: Black

CURRENT RATINGS(*)

Number of Cores	Nominal Cross Section (mm ²)	In Air (Amps)	Direct in Ground (Amps)	Drawn in Duct (Amps)
3	95	255	245	205
3	185	385	355	300
3	300	525	465	395
4	95	255	245	205
4	185	385	355	300
4	240	455	415	350
4	300	525	465	395

CURRENT RATINGS

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

TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm ²]	Conductor category	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
3	95	Class 1 = solid	34	2,000	0.32
3	185	Class 1 = solid	46	3,700	0.164
3	300	Class 1 = solid	54	5,000	0.1
4	95	Class 1 = solid	38	2,600	0.32
4	185	Class 1 = solid	50	4,400	0.164
4	240	Class 1 = solid	57	5,700	0.125
4	300	Class 1 = solid	63	6,700	0.1