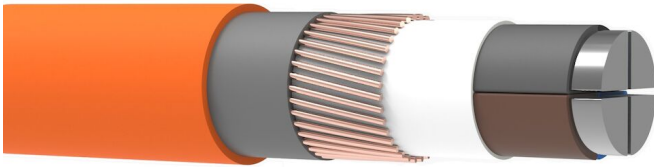


BS 7870-3.50 AL LSOH

LSOH Aluminium Conductor. BS7870-3.50. 600/1000V



Prysmian Low Smoke Zero Halogen (LSOH) Distribution cables are used in place of PVC Waveform cables by some Distribution Network Operators and Independent Distribution Network Operators where working on indoor network connections and where LSOH regulations apply.

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

Tape Bedding

Helical Copper Wire Screen

LSOH Oversheath

STANDARDS

CONSTRUCTION

Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Material outer sheath	Halogenfree polymer
Cable shape	Round

APPLICATIONS PROPERTIES

Nominal voltage U ₀ [V]	600
Nominal voltage U [V]	1,000
Rated voltage U ₀ /U (Um)	0.6/1 (1.2) kV
Flame retardant	In accordance with BS EN 60332-3-24
Halogen free	Yes
Low smoke	Yes
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: Orange

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	1,800	0.32
3	185	Class 1 = solid	45	3,300	0.164
3	300	Class 1 = solid	54	4,600	0.1
4	95	Class 1 = solid	38	2,200	0.32
4	185	Class 1 = solid	51	4,100	0.164
4	300	Class 1 = solid	62	5,800	0.1