

## DESIGN

**Conductor**

Circular Stranded Compacted Aluminium (Class 2)

**Conductor Screen**

Extruded Thermosetting Semi-Conducting Compound

**Insulation**

XLPE

**Insulation Screen**

Extruded Thermosetting Semi-conducting Compound (Bonded)

**Water Blocking Tape**

Semi-conductive Water Blocking Tape

**Metallic Screen**

Copper Wire Screen

**Metallic Screen**

Copper Tape Screen (Open Helix)

**Water Blocking Tape**

Non-conductive Water Blocking Tape

**Outer Sheath**

PE, Black

## APPLICATIONS

For outdoor fixed installations and it's normally used for power distribution in urban networks and industrial plants. Suitable for laying underground in ducts or on trays in free air.

## CHARACTERISTICS

<b>Voltage Grade</b>	12/20 (24) kV
<b>Conductor Operating Temp.</b>	90°C
<b>Conductor Short Circuit Temp.</b>	250°C
<b>Minimum Bending Radius</b>	20 x Outer Diameter
<b>Standards</b>	IEC60228, IEC 60502-2

## © DIMENSIONS

Cross Section	Outer Diameter	Conductor Resistance (DC at 20°C)	Conductor Resistance (AC at 90°C)	Inductance	Reactance at 50 HZ	Capacitance	Weight
(mm <sup>2</sup> )	(mm)	(Ohm/Km)	(Ohm/Km)	(mH/Km)	(Ohm/KM)	(µF/Km)	(Kg/Km)
1x95/16	30.6	0.320	0.4106	0.3933	0.1235	0.2235	915
1x240/25	37.8	0.125	0.1614	0.3373	0.106	0.3146	1550

  

Cross Section	Charging Current at 50 HZ	Dielectric Losses at 50 HZ	Conductor Short Circuit Current (1 Sec.)	Metallic Screen Short Circuit Current (1 Sec.)	Rated Current (in Air)*	Rated Current (in Duct)*	Rated Current (in Ground)*
(mm <sup>2</sup> )	(Amp/Km)	(W/Km/Phase)	(kA)	(kA)	(A)	(A)	(A)
1x95/16	0.8424	40.44	9	2.1	284	222	278
1x240/25	1.1861	56.93	22.7	3.2	509	381	465

\* Air temperature = 30°C, Ground temperature = 20°C, Soil Thermal Resistivity = 1 °C.m/W, Burial depth = 0.5m, Trefoil formation, Frequency = 50 Hz

\*\* The product and information presented in this document are for calculation only and subject to technical progress. Outer diameters are approximately \*\*