

IndustriCore KNX Cable
0.80mm*2P, AL Foil, LSZH Sheath



Applications

Designed for data transmission in the building management, in particular as bus cable for the European Installation Bus EIB as well as MSR cable in high-voltage systems

Construction

Conductor Material	Solid bare copper
Insulation Material	Polyethylene (PE)
Core Identification	Red/black, yellow/white
Fillers	Cotton Thread
Overall Tape	Polyester
Screen	AL-PET Tape
Drain Wire	Stranded tinned copper
Sheath Material	Low smoke zero halogen (LSZH)
Sheath Color	Green

Dimensions

Conductor Diameter	0.80 mm
Insulation Diameter	1.40 mm Nom.
Drain Wire Diameter	7/0.16 mm
Overall Diameter	6.30 mm Nom.

Physical Characteristics

Bend Radius	Flexing 15 x OD Static 10 x OD
Temperature Rating	Flexing -30°C to +70°C Static -40°C to +80°C

Electrical Characteristics

Conductor DCR	38.5 Ω/KM Max. @20°C
Insulation Resistance	200 MΩ.M Min.
Mutual Capacitance	100 nF/km @800 Hz
Voltage Rating	300V
Inductance	0.65 mH/km @800 Hz
Capacitive Coupling	300 pF/100 m @800 Hz
Characteristic Impedance	85±10 Ω Nom. @100 kHz 75±10 Ω Nom. @1 MHz
Attenuation	3.5 dB/km @10 kHz 8 dB/km @100 kHz
Test voltage	1000V (Core/Core) 1000V (Core/Screen) 4000V in water bath 5 min

Standards

RoHS Compliant	Yes
Reach Compliant	Yes
CE Compliant	Yes
UV Resistance	ISO 4892-2, method A
Flame Retardant	IEC 60332-1-2 UL 1581 VW-1
Halogen & Corrosive Gas	IEC 60754-1/2
Smoke density	IEC 61034-2
CPR Classification	Eca EN 50575:2014+A1:2016