Installation cable in accordance with DIN VDE 0815 with PE core insulation

Suitable for data transmission rates of up to 16 Mbits/s; Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields

Product description

Application range

- Connection cable for use in electronics and in measurement, control and signal applications
- Examples of use: for connecting EDP system units or for circuits for airfield lighting, ISDN private branch exchanges, operating data acquisition, operating data entry, access control and time recording systems, industrial electronics, all designed for maximum security and speed
- Can be used in dry and wet interiors for fixed installation on and under plaster

Benefits

- Suitable for data transmission rates of up to 16 Mbits/s
- Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields

Product Make-up

- Solid bare copper conductor
- Core insulation made of polyethylene (PE)
- Cores twisted into star quads,
  5 star quads are twisted into a bundle,
  bundles stranded in layers
- Foil wrapping,
  static screening made of aluminium-laminated plastic film with copper drain wire
- Outer sheath made of PVC
  Outer sheath colour: pebble grey (RAL 7032)

Norm references / Approvals

- Based on DIN VDE 0815

Product features

- Flame-retardant according IEC 60332-1-2

Technical Data

Core identification code	according to VDE 0815, refer to Appendix T10
Mutual capacitance	(800 Hz) max. 52 nF/km
Peak operating voltage	(not for power applications) 300 V
Classification	ETIM 5.0 Class-ID: EC000829 ETIM 5.0 Class-Description: Control cable
Coupling	K1: 98 % K9-12: 98 % < 100 pF/300 m
Conductor cross-section in	0.6 mm: 0.28 mm²
Cable attenuation/attenuation	At 16 MHz: < 8 dB/100 m
Minimum bending radius	Fixed installation: 10 x outer diameter
Short-range crosstalk attenuation	4-16 MHz: 2-pair ? 45 dB 4-16 MHz: >2-pair ? 20 dB
Test voltage	Core/core: 500 V Core/screen: 2000 V
Loop resistance	max. 130 ohm/km
Temperature range	Occasional flexing: -5°C to +50°C Fixed installation: -30°C to +70°C
Characteristic impedance	100 Ohm +- 15 %