Static screened installation cable for industrial electronics

Perfect for cost-effective installation, e.g. connections with insulation displacement technology (IDC); Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields; Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects)

- In accordance with DIN VDE 0815

RoHS

Product description

Application range

- Connection cable for fixed installation in industrial control systems, as required in measurement, control, signalling and data applications
- Industrial electronics
- For fixed installation on and under plaster, in dry and damp rooms
- For outdoor use this cable should be installed under plaster only

Benefits

- Perfect for cost-effective installation, e.g. connections with insulation displacement technology (IDC).
- Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields
- Decoupling of circuits by means of

twisted-pair (TP) design (crosstalk effects)

Product Make-up

- Solid bare copper conductor
- Core insulation made of PVC
- 2 cores twisted into a pair, and 4 pairs into units (for 2 x 2 x 0.8 as star quad cable)
- 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

- In accordance with DIN VDE 0815
  type JE-Y(ST)Y...BD

Product features

- The 2-pair version (2x2x0.8) is twisted into a star quad
- Flame-retardant according IEC 60332-1-2
- JE-Y(ST)Y...BD EB
  Blue version for intrinsically safe cirsuits: Complies with VDE 0165 Section 12.2.2.6. Marking of cables for hazard type -i- (intrinsically safe) is specified

Technical Data

Core identification code	according to VDE 0815, refer to Appendix T10
Mutual capacitance	max. 100 nF/km
Peak operating voltage	(not for power applications) 225 V
Classification	ETIM 5.0 Class-ID: EC000829 ETIM 5.0 Class-Description: Control cable
Inductivity	approx. 0.65 mH/km
Coupling	approx. 200 pF/100 m
Conductor stranding	Single-wire (solid conductor) 0.8 mm: 0.50 mm²
Minimum bending radius	Fixed installation: 6 x outer diameter
Test voltage	Core/core: 500 V Core/screen: 2000 V
Loop resistance	max. 73.2 Ohm/km
Temperature range	Occasional flexing: -5°C to +50°C Fixed installation: -30°C to +70°C