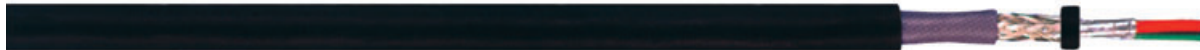


PROFIBUS for underground installation

UV-resistant cable for Sinec-L2-DP* and FIP (Factory Instrumentation Protocol)



Applications

This cable is used for underground installation and for stationary installation in industrial environments characterized by adverse conditions. Screening ensures reliable use in EMI environments.

We are a member of PROFIBUS Nutzerorganisation e.V. (PROFIBUS User Organization).



Design

- Bare Cu wire
- Core insulation: expanded PE
- Core colours: red and green
- Cores twisted in layers, with optimal lay lengths
- Overall screening with composite aluminium foil, metal layer on the outside, and tinned copper braided screening
- Inner jacket: special PVC, flame retardant
- Outer sheath: PE, UV-resistant,
- Sheath colour: black

Available special types:

- with tinned Cu wire
- with steel tape armouring, type 02Y(St)CY(B)2Y, outer diameter approx. 10.8 mm

Electrical and technical specifications

Peak operating voltage: max. 100 V

Test voltage: 3600 V/3 sec

Conductor loop resistance: max. 110 Ohm/km

Insulation resistance: ≥ 16000 MOhm x km

Mutual capacitance at 1 kHz: approx. 28.5 nF/km

Bending radius:
single bending min. 150 mm
repeated bending min. 300 mm

Temperature range: -40° C to $+60^{\circ}$ C

Wave impedance:
Nominal value 150 Ohm
3 to 20 MHz 150 +/- 15 Ohm
38.4 kHz 185 +/- 18.5 Ohm
9.6 kHz 270 +/- 27 Ohm

Attenuation:
at 16 MHz < 45 dB/km
at 4 MHz < 22 dB/km
at 38.4 kHz < 5.0 dB/km
at 9.6 kHz < 3.0 dB/km

* Sinec L2-DP is a registered trademark of Siemens AG

Item No.	Conductor diameter	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
385006402	1x2x0.64 mm	26.3	10.2	85