Fixed installation

Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP; PLTC-ER approval for open wiring between cable tray and industrial machines/plants acc. to NEC 725.154 (D); No additional protection of the cable needed

- PLTC-ER (power limited tray cable epxosed run) for unprotected use on cable trays

Product description

Application range

- For fixed installation or applications with occasional movements
- PROFIBUS DP (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).

Benefits

- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP
- PLTC-ER approval for open wiring between cable tray and industrial machines/plants acc. to NEC 725.154 (D)
- No additional protection of the cable needed

Product Make-up

UNITRONIC® BUS PB TRAY

- Bare copper wire, 0,64 mm diameter
- Core colours: red, green
- Overall screening with copper braid and plastic-laminated aluminium foil
- PVC inner sheath and outer sheath
- Colour: violet (RAL 4001)

Norm references / Approvals

- c(UL)us Typ CMG (75°C) acc.to UL 444 / CSA 22.2
- UL Type PLTC-ER acc. to UL 13

Product features

- UV-resistant UL SUN RES
- Oil-resistant according to UL OIL RES I
- Flame retardant acc. UL 1685 - FT4 (vertical tray)
- Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply
  (cable type A, PROFIBUS-DP):
  93.75 kbit/s = 1200 m
  187.5 kbit/s = 1000 m
  500 kbit/s = 400 m
  1.5 Mbit/s = 200 m
  12.0 Mbit/s = 100 m

Technical Data

Mutual capacitance	(1 kHz): max. 30 nF/km
Peak operating voltage	(not for power applications) 250 V
Impedance	150 +/- 15 Ohm
Conductor resistance	(loop): max. 110 ohm/km
Minimum bending radius	Fixed installation: 8 x outer diameter
Test voltage	Core/core: 2000 V
Temperature range	Flexing: -10°C to +70°C
	Fixed installation: -40°C to +80°C
Characteristic impedance	150 ± 15 Ohm