



Highly flexible application

For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required; Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP



Product description

Application range

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

Benefits

- For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

Product Make-up

- PE core insulation

Norm references / Approvals

- Approval: UL type CMX in accordance with UL 444

Product features

- TORSION: for torsional stress, e.g. robot application; $\pm 180^\circ$ per 1 m
- Halogen-free
- Flame-retardant according IEC 60332-1-2
- 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	(800 Hz): max. 30 nF/km
Peak operating voltage	(not for power applications) 300 V
Torsion movement in WTG	Max. torsion load $\pm 180^\circ/\text{m}$
Minimum bending radius	Fixed installation: 4 x outer diameter Flexing: 7.5 x outer diameter
Test voltage	3600 V DC (3 sec.)
Temperature range	Operating temperature: -25°C to 75°C Storage temp.: -40°C to 80°C
Characteristic impedance	$150 \pm 15 \text{ Ohm}$