



## Highly flexible application

Fast Connect (FC) system; For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required; For highly flexible applications (power chains, moving machine parts); Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP



## Product description

### Application range

- For highly flexible use in energy supply chains or permanently moving machines and linear robots
- This cable provides special advantages for use in sensitive areas where fire propagation must be avoided and the presence of toxic fumes would cause personal injury and damage to equipment.

### Benefits

- Fast Connect (FC) system
- For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required
- For highly flexible applications (power chains, moving machine parts)
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

## Product Make-up

- Stranded bare copper wire
- Foam Skin - core isolation (O2YS)
- Overall screening with copper braid and plastic-laminated aluminium foil
- Screening: wrapped with braided tinned-copper wires
- Outer sheath: PUR compound

## Product features

- The cable is UL/CSA-approved (CMG)
- Halogen-free
- High flame retardancy in accordance with IEC 60332-3 and FT4
- Oil-resistant
- 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	nom. 28 nF/km
Peak operating voltage	(not for power applications) 250 V
Minimum bending radius	Fixed installation: 10 x outer diameter Flexing: 15 x outer diameter
Test voltage	Core/core: 1500 V rms
Temperature range	Flexing: -30°C to +70°C Fixed installation: -40°C to +80°C
Characteristic impedance	(3 - 20 MHz): 150 ± 15 Ohm