



PROFIBUS

Bus-cable for Profibus

Fast Connect • 1 x 2 x 0,64



APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. Together with the appropriate tools and connectors the cable is applicable for quick-assembly technology.

STANDARDS

DIN 19245 T3; EN 50170 (acc. to Profibus specifications)

CONSTRUCTION

Conductor: copper wire, solid, bare (AWG 22/1)

Core insulation: Foam-Skin PE

Core identification: red, green

Core stranding: 2 cores layed up

Sheath inside: filling compound

Lapping: plastic foil

Screen: Al/PETP compound foil; tinned copper wire braid (visual covering appr. 80%)

Sheath: PVC; colour: violet RAL 4001

ELECTRICAL CHARACTERISTICS

| | |
|-------------------------------------|---------------------|
| (Conductor) loop resistance max. | 115 Ω/km |
| Insulation resistance min. | 1 GΩ x km |
| Characteristic impedance (3–20 MHz) | 150 ± 15 Ω |
| Mutual capacitance nom. | 30 nF/km |
| Attenuation max. at | 9,6 kHz 2,5 dB/km |
| | 38,4 kHz 4,0 dB/km |
| | 4,0 MHz 22,0 dB/km |
| | 16,0 MHz 42,0 dB/km |
| Peak operating voltage | 250 V |
| Test voltage | 1500 V |

THERMAL & MECHANICAL PROPERTIES

| | |
|-----------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Cable diameter | 7,8 ± 0,2 mm |
| Cable weight appr. | 70 kg/km |
| Copper index | 25 kg/km |
| Minimum bending radius stationary | 80 mm |

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order, Shipping will always be made in the standard manufactured lengths or unless precisely requested.

