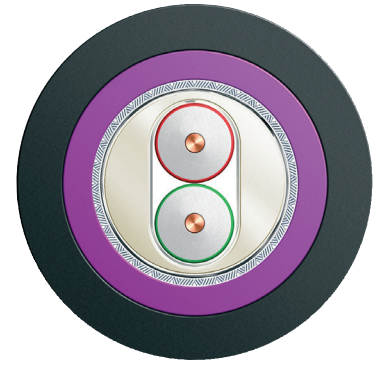


PROFIBUS DP

ES Cable Duct Grade



Cable Design

| | | |
|------------------|--|------------------|
| Wire | | |
| Conductor | Solid bare copper wire (22awg) | Ø 0,65 mm |
| Insulation | Foamed Polyethylene (PE) with skin | Ø 2,55 mm |
| Core | | |
| Pair | 2 wires twisted to a pair (RD-GN) | |
| Tape | Plastic tape overlapped | |
| Easystrip Jacket | Soft Polyvinylchloride (PVC) | Ø 5,40 mm |
| Screen | Alulaminat foil overlapped | |
| Braid | Tinned copper wire braid, 56% coverage | Ø 6,20 mm |
| Inner Jacket | Polyvinylchloride (PVC), Violet | Ø 8,0 ± 0,40 mm |
| Outer Jacket | Polyethylene (PE), Black or Violet | Ø 10,8 ± 0,50 mm |



Characteristics

- Cold bending resistant acc. to IEC 60811-1-4,
- Sunlight resistant,
- Limited mineral oil and fat resistant

Specification

| Part Number | Type |
|-----------------|--|
| L45467-G16-C236 | PROFIBUS DP ES, cable for direct burial (easy to strip), 2x22AWG1, PE Black |
| L45467-G16-C235 | PROFIBUS DP ES, cable for direct burial (easy to strip), 2x22AWG1, PE Violet |

PROFIBUS DP

ES Cable Duct Grade

Electrical Data @ 20°C

| | | | | |
|---------------------------------|------------------|---|----------|---------|
| Loop resistance | | ≤ | 110 | Ohm/km |
| Screen resistance | | ≤ | 9,5 | Ohm/km |
| Insulation resistance | | ≥ | 16 | GOhm*km |
| Characteristic Impedance | 3-20 MHz | | 150±15 | Ohm |
| Characteristic Impedance | 31,25 - 38,4 kHz | | 185±18,5 | Ohm |
| Characteristic Impedance | 9,6 kHz | | 270±27 | Ohm |
| Attenuation | 16 MHz | ≤ | 42 | dB/km |
| Attenuation | 4 MHz | ≤ | 22 | dB/km |
| Attenuation | 38,4 kHz | ≤ | 4 | dB/km |
| Attenuation | 9,6 kHz | ≤ | 2,5 | dB/km |
| Inductance (31,25 kHz) | | ≈ | 1000 | μH/km |
| Capacitance (1 kHz) | | ≈ | 28,5 | nF/km |
| Capacitance Unbalance to ground | | ≤ | 1500 | pF/km |
| Operating voltage (peak) | | ≤ | 100 | V |
| Rel. Velocity of Propagation | | ≈ | 81 | % |
| Test Voltage (DC 3 sec) | | = | 3600 | V |

Mechanical & Thermal Characteristics

| | | | | |
|-------------------------------|----------|---|-----------|-------|
| Permissible temperature range | | | -40 ~ +60 | °C |
| Min. Bending radius allowed | repeated | | 15 | x Ø |
| Min. Bending radius allowed | single | | 7,5 | x Ø |
| Pulling force with | | ≤ | 100 | N |
| Weight (approx.) | | | 117 | kg/km |

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