

# BUSPR

FIELD CONTROL-BUS® cables for PROFIBUS FMS/DP.  
EN 50170-2 et 3. Pour installations en racks ou en conduit. 1x2x0.64 mm

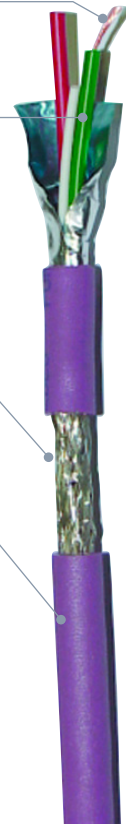


**Conductor:**  
Red copper: 1x0.64 mm  
Section area = 0.32 mm<sup>2</sup>

**Isolation:**  
Cellular PE - Green/Red  
Ø nominal = 2.5 mm

**General shielding:**  
Aluminium/PES Tape - Coverage: 100%  
Tinned copper braid - Coverage: 85%

**Outer sheath:**  
PVC  
Violet  
Ø nom. = 7.9 mm



FT11/06/2015 EN

## PRODUCT INFORMATION

### APPLICATION

The Profibus-DP protocol uses a high-speed RS485 serial link and requires an impedance of 150 ohms. The BUS/P cable meets this requirement; in addition, a double shielding (aluminum foil + braid) ensures perfect immunity to electromagnetic interference.

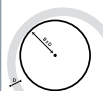
### FEATURES



Fire resistance  
IEC 60332-1



Temperature:  
Service range: -40°C → +70°C  
Installation range: -5°C → +50°C



Minimum radius of curvature:  
repeated bending: 60 mm  
Unique curve: 40 mm



In accordance with the RoHS directive.  
Maximum traction during installation: 100N  
Oil resistance according to VDE 0472 part 803

### DESCRIPTION OF THE CABLE

Assembly: twisted pair with stuffing  
Weight: 70 kg/km

### ELECTRICAL PROPERTIES

Maximum service tension: 300 V (non utilisable pour une power application)

Test voltage:  
- Conductor/Conductor: 1 kVac for 1 minute.  
- Conductor/Shielding: 1 kVac for 1 minute.  
Insulation resistance > 5.0 GΩ.km  
Max loop resistance: 115 Ω.km  
Screen resistance: 9 Ω.km

Impedance (≥ 3 MHz) : 150 Ω ± 10 %  
Mutual capacity: 29 nF/km  
Capacity imbalance: 1600 pF/km

Maximum attenuation	Transfer impedance:
A 9.6 kHz : 2.5 dB/km	1 MHz : 6 mΩ/m
A 38.4 kHz : 4 dB/km	10 MHz : 8 mΩ/m
A 4 MHz : 22 dB/km	20 MHz : 10 mΩ/m
A 16 MHz : 42 dB/km	