

Cable451-500M

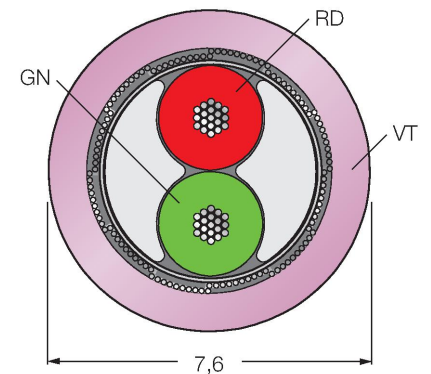
PROFIBUS Cable – Connection Cable

Features



- PROFIBUS cable: $2 \times 0.34 \text{ mm}^2$
- Jacket material: PUR, color: purple
- Jacket diameter: 8.2 mm
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant acc. to DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
- Halogen free acc. to DIN EN 50267-2-1, VDE 0482-267-2-1, IEC 60754-1
- Free from silicone, PVC and LABS
- Resistant to microbes and hydrolysis
- RoHS compliant
- UL approved
- End open
- Open end
- Cable length: 500 m

Cable Cross-Section



Technical data

Type	Cable451-500M
ID	6915606
Number of Pins	2
Cable	
Network protocol	PROFIBUS-DP, 451
Cable diameter	$\varnothing 8.2 \text{ mm} +0.30$
Cable length	500 m
Cable jacket	PUR, Violet
Shielding	Aluminum foil, tinned copper wire
Core insulation	PE
Core cross-section	$2 \times 0.34 \text{ mm}^2$
Arrangement of strands	$19 \times 0.15 \text{ mm}$
Core colors	GN, RD
Electrical properties at +20 °C	
Rated voltage	250 V
Test voltage	2000 V
Current	4 A
DC resistance (loop)	110 Ω/km
Nom. impedance	160 Ω (16 MHz)
Nom. capacitance	28 pF/m
Nom. Inductance	0.78 mH/km
Damping	< 43.60 dB/km at 16.0 MHz
Mechanical and chemical properties	
Max. tensile strength (static)	$\leq 50 \text{ N/mm}^2$
Max. tensile strength (dynamic)	$\leq 20 \text{ N/mm}^2$
Bending radius (stationary installation)	$\geq 5 \times \varnothing$
Bending radius (flexible use)	$\geq 10 \times \varnothing$

Technical data

Bending cycles	≥ 3 million
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.33 m/s
Ambient temperature range (stationary)	-50...+80 °C
Ambient temperature range (In motion)	-25...+80 °C
Ambient temperature during drag chain operation	-25...+60 °C
Other Features	
Qualified for drag chain use	yes
Halogen-free	yes
Silicone-free	yes
LABS free	yes
PVC-free	yes
Resistant to chemicals	yes
UV resistance	yes
Oil-resistant	yes
Flame-retardant	yes
Approvals	UL