

PROFIBUS-DP Cable

Standard PROFIBUS DP cable for stationary applications and specially designed for fast assembly. Due to its double screening it is suitable for installation in EMC demanding areas

Cable type 1)	PROFIBUS FC Standard Cable
Applications	Universally implementable
Damping <ul style="list-style-type: none"> • at 16 MHz • at 4 MHz • at 9.6 kHz 	<ul style="list-style-type: none"> ≤ 42 dB/km ≤ 22 dB/km ≤ 2.5 dB/km
Characteristic impedance <ul style="list-style-type: none"> • at 9.6 kHz • at 38.4 kHz • at 3 to 20 MHz 	<ul style="list-style-type: none"> 270 ± 27 Ω 185 ± 18.5 Ω 150 ± 15 Ω
Rated value	150 Ω
Loop resistance	≤ 110 Ω/km
Shield resistance	≤ 9.5 Ω/km
Effective capacitance at 1 kHz	approx. 28.5 nF/km
Operating voltage (rms value)	≤ 100 V
Cable type (standard designation)	02YSY (ST) CY 1 × 2 × 0.64/2.55-150 KF 40 FR VI
Jacket <ul style="list-style-type: none"> • Material • Diameter • Color 	<ul style="list-style-type: none"> PVC 8.0 ± 0.4 mm Violet
Perm. ambient conditions <ul style="list-style-type: none"> • Operating temperature • Transport/storage temperature • Installation temperature 	<ul style="list-style-type: none"> -40 ℃ ... +60 ℃ -40 ℃ ... +60 ℃ -40 ℃ ... +60 ℃
Bending radii <ul style="list-style-type: none"> • Single bend • Multiple bends 	<ul style="list-style-type: none"> ≥ 75 mm ≥ 150 mm
Permissible tensile force	≤ 100 N
Weight	76 kg/km
Halogen-free	No
Behavior in fire	Flame-retardant to VDE 0482-266-2-4, IEC 60332-3-24
UL listing / 300 V rating	Yes / CM/CMG/PLTC/Sun Res
UL style / 600 V rating	Yes
Resistance to mineral oils and grease	Limited resistance
UV-resistant	Yes
Silicone-free	Yes
Fast Connect cable installation	Yes