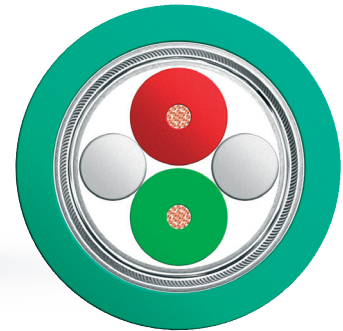
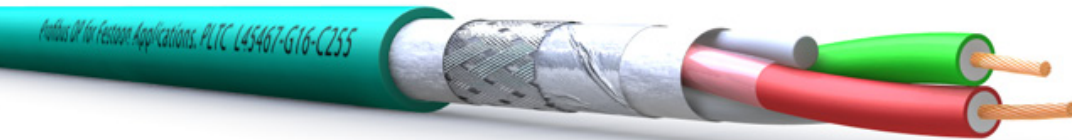


Profibus DP Festoon Cable



L45467-G16-C255

Application	Cable Construction	
Profibus DP Festoon Cable	Conductor	Stranded Bare Copper Wire, 19x0.14 Ø 0.67 mm
For following requirements:	Insulation	Foamed Polyethylene (PE) with skin Ø 2.56 mm
- 5 million bending cycles	Colour Code	Red, Green twisted pair + Fillers
- bending radius ≥ 70 mm	Screen	-Longitudinal Aluminated foil 100% coverage
- acceleration 4 m/s ²	Shield	-Tinned copper wire braid, 0.15mm 70% coverage
-Min. bending diameter allowed: single, ≥ 30 mm	Outer Jacket	Polyvinylchloride (PVC), 1.0mm wall thickness Ø 8.0 \pm 0.3 mm
Assembling Regulation: When installed, the cable has to pay off from the drum in a tangential way and to install free of torsion into the cable roller assemblies. The cable must mount tangential on a flat cable roller assemblies with a round half shell (angle between line and half shell 90 degree), whereby the radius of the half shell has to be ≥ 70 mm). The strain reliefs of the cable roller assemblies must be fitted out with rubber clutches in order to avoid too strong bruise of the conductor. Other cables, which are also in the festoon, must not curse underruns of the minimal bernding radii of the assembling conductors	Electrical Data	
	Loop resistance	≤ 133 Ohm/km
	Screen resistance	≤ 19 Ohm/km
	Insulation resistance	≥ 16000 MOhm*km
	Capacitance (1KHz)	≈ 28 nF/km
	Characteristic Impedance	3-20 MHz 150 \pm 15 Ω
		31.25 - 38.4 kHz 185 \pm 18.5 Ω
	Attenuation	9.6 kHz 270 \pm 27 Ω
		16 MHz ≤ 49 dB/km
		4 MHz ≤ 25 dB/km
		38.4 MHz ≤ 4 dB/km
		9.6 MHz ≤ 3 dB/km
	Inductance (31.25 KHz)	≈ 750 μ H/km
	Capacitance unbalance to ground	≤ 1500 pF/km
	Operating voltage (effective value)	≤ 100 V
	UL Rating	600 V
	Rel. Velocity of propagation	≈ 81 %
	Test voltage (DC 3 sec)	= 2000 V

Mechanical & Thermal Characteristics	
Conductor material	acc. to DIN EN 13602 Cu-ETP-A...
Screen material	acc. to DIN EN 13602 Cu-ETP-A...-B
Insulating material	acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)
Jacket material	acc. to DIN VDE 0207, compound type YM5
Flame retardant	acc. UL 1685 (CSA FT 4)
Oil resistant	acc. to UL 758 Sec. 15 (60°C)
Sunlight resistant	acc. to UL 1581 Sec. 1200
Permissible Temp. Range: -	40°C up to +80°C
Tensile strength:	< 80 N
Weight about:	64 kg/km