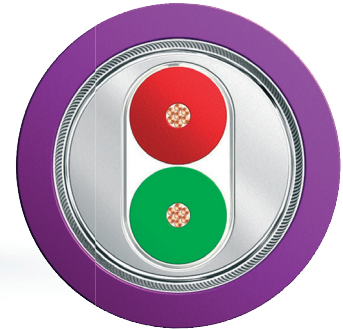


Profibus DP ES Cable for Vibration Resistant Applications



231P22111

Application	Cable Construction		
Profibus DP EasyStrip for Vibration resistant applications	Conductor	Stranded Bare Copper Wire, 7x0.25 (22awg) Ø 0.76 mm	
	Insulation	Foamed Polyethylene (PE) with skin Ø 2.55 mm	
	Colour Code	Red, Green twisted pair, Plastic tape overlapped	
	EasyStrip	Soft Thermoplastic copolymer, white Ø 5.5 mm	
	Screen:	-Longitudinal Alulaminare foil 100% coverage	
	Shield	-Tinned copper wire braid, 0.15mm 85% coverage	
	Outer Jacket:	Polyvinylchloride (PVC), 0.9mm wall thickness Ø 8.0 ± 0.4 mm	
	Electrical Data		
	Loop resistance	≤ 110 Ohm/km	
	Screen resistance	≤ 9.5 Ohm/km	
Insulation resistance	≥ 16 GOhm*km		
Capacitance (1KHz)	≈ 28.5 nF/km		
Characteristic impedance	(3-20 MHz)	150 ± 15 Ohm	
	(31.25-38.4 KHz)	185 ± 18.5 Ohm	
	(9.6 KHz)	270 ± 27 Ohm	
Attenuation	(16 MHz)	≤ 42 dB/km	
	(4 MHz)	≤ 22 dB/km	
	(38.4 MHz)	≤ 4 dB/km	
	(9.6 MHz)	≤ 2.5 dB/km	
	Inductance (31.25 KHz)	≈ 1000 µH/km	
Capacitance (1 KHz)	≈ 28.5 nF/km		
Unbalance to Ground	≤ 1500 pF/km		
Operating Voltage	≤ 60 V		
Test Voltage (wire/wire/screen rms 50Hz1min)	1000 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) (02Y)
Jacket material	acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)
Flame retardant	acc. to IEC 60332-1-2
RoHS Compliant	
Temperature Range	-25°C up to +80°C
Min. Bend radius allowed	repeated 10 x Ø, single 5 x Ø
Weight about	82kg/km