

PROFIBUS® L2/FIP



PROFIBUS-L2/FIP are fieldbus cables designed for use in FIP (Factory Instrumentation Protocol) and SINEC-L2 field bus systems and other high performance fieldbus networks. Available in PVC and halogen-free for stationary applications and polyurethane (PUR) for continuous flexing applications. All versions are available with a tinned copper braid and foil shield for excellent protection against electromagnetic interferences and have exceptional data transmission characteristics. All cables have an oil-resistant and flame retardant violet colored jacket. The L2/FIP bus cable in PVC and polyurethane are available in a Quick Connect version (QC).



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5 for PUR versions
- 7-wire strands noted (for vibration issues)
- Special polyethylene core insulation
- Color code DIN 47100 pair (red & green)
- Twisted pair configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- PVC or PUR outer jacket
- Violet (RAL 4001)

Technical:

- Working voltage: 250 volts
- Test voltage: 1500 volts
- PVC bending radius: 8 x Ø
- PUR bending radius: 15 x Ø
- Static PVC temp: -40° C to +80° C
- Flexing PUR temp: -5° C to +70° C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 110 Ω / km
- Impedance: 150 Ω (+/- 15Ω)
- Mutual Cap (800 Hz): max 30nF/km

Approvals:

- DIN 19245, EN 50170
- UL style 2571
- UL/CSA type CMG
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant



PART NUMBER	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
PROFIBUS-PVC L2/FIP (STATIONARY)				
22 AWG (0,64mm) PVC				
8142201 L2/FIP	1	0.299" / 7.6mm	20	38
8152201 L2/FIP UL/CSA	1	0.299" / 7.6mm	18	38
8162201 L2/FIP 7-WIRE	1	0.315" / 8.0mm	18	38
8172201 L2/FIP UL/CSA HF	1	0.307" / 7.8mm	18	36
8602201 L2/FIP UL/CSA QC	1	0.315" / 8.0mm	17	36
8612201 L2/FIP UL/CSA HF QC	1	0.315" / 8.0mm	17	36

7-Wire - Stranded version made up of 7-wire stranded cores for use when vibrations occur.

HF - a halogen-free jacket is used replacing the common PVC, stranding is also 7-wire, also meets IEC 60332.3

QC - 2 single bare copper cores allows for quick connect to an IDC connector.

PART NUMBER	PAIRS	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
PROFIBUS-PUR L2/FIP (HIGH FLEX)				
22 AWG (0,64mm) PUR				
8182201 L2/FIP	1	0.315" / 8.0mm	20	43
8192201 L2/FIP UL/CSA	1	0.315" / 8.0mm	20	43
8632201 L2/FIP UL/CSA QC	1	0.315" / 8.0mm	17	42

QC - 2 single bare copper cores allows for quick connect to an IDC connector.

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