Fixed installation



Automation

Halogen-free

Industrial machinery and plant engineering

UV-resistant

Info
Lapp Kabel is a member of the PROFIBUS User Organisation (PNO)
A for Advanced here: UL and CSA approvals

Application range
For fixed installationMaximum electromagnetic screening
Dry or damp rooms
Item nos. 2170233, 2170333, 2170820, 2170824, 2170826 are all UV-resistant

Design
FC: "Fast Connect" cable design
P: PolyurethaneH: Halogen-free
PE: polyethylene, black Outer sheath, e.g. for the food and beverage industry
7-W: 7-wire, e.g. for applications where vibrations occur
COMBI: Data transmission andpower supply in one cable

Norm references / Approvals
In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)
See below for UL approval type

Product features
These bus cables can be used for PROFIBUS-DP as well as for PROFIBUS-FMS and FIP
Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply(cable type A, PROFIBUS-DP):93.75 kbit/s = 1200 m187.5 kbit/s = 1000 m500 kbit/s = 400 m1.5 Mbit/s = 200 m12.0 Mbit/s = 100 m

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Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
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Technical Data

Mutual capacitance:	(800 Hz): max. 30 nF/km
Peak operating voltage:	(not for power applications) 250 V
Conductor resistance:	(loop): max. 133 ohm/km
Minimum bending radius:	Fixed installation: see data sheet
Test voltage:	Core/core: 1500 V rms
Characteristic impedance:	150 ± 15 Ohm

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Part number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
For fixed installation - conventional cable assembly					
2170220	UNITRONIC® BUS PB	1 x 2 x 0,64	8.0	30.1	74
2170233	UNITRONIC® PB PE	1 x 2 x 0,64	8.0	30.1	57
2170226	UNITRONIC® BUS PB H 7-W	1 x 2 x 0,64	8.0	30.1	55
2170225	UNITRONIC® BUS PB COMBI 7-W	1 x 2 x 0,64 Ø + 3 x 1,0 mm²	9.8	59.0	92
For fixed installation - UL/CSA CMX approval					
2170219	UNITRONIC® BUS PB A	1 x 2 x 0,64	8.0	30.1	57
For fixed installation - UL/CSA CMG approval					
2170824	UNITRONIC® BUS PB 7-W A	1 x 2 x 0,64	8.0	30.1	55
For fixed installation - "Fast Connect" cable assembly					
2170333	UNITRONIC® BUS PB PE FC	1 x 2 x 0,64	8.0	26.0	67
For fixed installation - UL/CSA CMX approval					
2170330	UNITRONIC® BUS PB P FC	1 x 2 x 0,64	8.0	26.0	71
For fixed installation - "Fast Connect" cable assembly - UL/CSA CMG approval					
2170820	UNITRONIC® BUS PB FC	1 x 2 x 0,64	8.0	26.0	84
2170826	UNITRONIC® BUS PB 7-W FC	1 x 2 x 0,64	8.0	26.0	67
2170326	UNITRONIC® BUS PB-H FC	1 x 2 x 0,64	8.0	26.0	72

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