

Stationary application

Product Description



Application range

- For stationary installation of Bus Systems Maximal electromagnetic screening
- Dry and damp indoors

Design

- FC: "Fast Connect" cable design.
- P: Polyurethan H: Halogen free
- PE: Polyethylen, eg. for food and beverage industry
- 7-W: 7-wire, eg. for applications where vibrations occur
- COMBI: Data transmission and power supply in one cable

Approvals (Norm references)

- In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)

Product features

- These bus cables can be used for PROFIBUS-DP as well as for PROFIBUS-FMS and FIP
- The stated bit rates allow the following cable lengths (maximum) according of PROFIBUS User Organisation of



one bus segment (Type A cable, PROFIBIS-DP): 93.75 kbit/s = 1200 m 187.5 kbit/s = 1000 m 500 kbit/s = 400 m 1.5 Mbit/s = 200 m 12.0 Mbit/s = 100 m

Technical Data

Approvals

For type of UL approval, see below

Mutual capacitance

(800 Hz): max. 30 nF/km

Peak working voltage

(not for power purposes) 250 V

Conductor resistance

(loop): max. 133 Ohm/km

Minimum bending radius

Fixed installation,: see data sheet

Test voltage

Core/core: 1500 V

Characteristic impedance

150 +/- 15 Ohm

Article List

Part number	Article designation	Number of pairs and conductor diameter in mm	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
For fixed installation - conventional cable assembly					
2170220	UNITRONIC® BUS PB	1 x 2 x 0,64	8	30.1	74
2170233	UNITRONIC® PB PE	1 x 2 x 0,64	8	30.1	57
2170226	UNITRONIC® BUS PB H 7-W	1 x 2 x 0,64	8	30.1	55
2170225	UNITRONIC® BUS PB COMBI 7-W	1 x 2 x 0,64 Ø + 3 x 1,0 mm ²	9.8	59	92
For fixed installation - UL/CSA CMX approval					
2170219	UNITRONIC® BUS PB A	1 x 2 x 0,64	8	30.1	57
For fixed installation - UL/CSA CMG approbation					
2170824	UNITRONIC® BUS PB 7-W A	1 x 2 x 0,64	8	30.1	55
For fixed installation - "Fast Connect" cable assembly					
2170333	UNITRONIC® BUS PB PE FC	1 x 2 x 0,64	8	26	67



For fixed installation - UL/CSA CMX approval					
2170330	UNITRONIC® BUS PB P FC	1 x 2 x 0,64	8	26	71
For fixed installation - "Fast Connect" cable assembly - UL/CSA CMG approbation					
2170820	UNITRONIC® BUS PB FC	1 x 2 x 0,64	8	26	84
2170826	UNITRONIC® BUS PB 7-W FC	1 x 2 x 0,64	8	26	67
2170326	UNITRONIC® BUS PB-H FC	1 x 2 x 0,64	8	26	72

Footnote:

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil <= 30 kg and <= 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

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LAPPKABEL is a member of the PROFIBUS user organisation (PNO)