

CAMUNACAVI



UNITRONIC® BUS PB

Cables for bus systems PROFIBUS-DP/FMS/FIP

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

Application range

- For fixed installation
- Maximum electromagnetic screening
- Dry or damp rooms
- Item nos. 2170233, 2170333, 2170820, 2170824, 2170826 are all UV-resistantL

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 m 187.5 kbit/s = 1000 m 500 kbit/s = 400 m 1.5 Mbit/s = 200 m 12.0 Mbit/s = 100 m

Norm references / Approvals

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

Design

- FC: "Fast Connect" cable design
- P: Polyurethane
- H: 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 and power supply in one cable

Technical data					
Norm references / Approvals See below for UL approval type					
Resistant UV-resistant products Item nos. 2170233, 2170333, 2170820, 2170824, 2170826 are all UV-resistant					
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					

Article Number	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Approx Weight (kg/km)	
For fixed installation - conventional cable assembly					
2170220	1 x 2 x 0.64	8,0	30,1	74	
2170233	1 x 2 x 0.64	8,0	30,1	57	
2170226	1 x 2 x 0.64	8,0	30,1	55	
2170225	1 x 2 x 0,64 Ø + 3 x 1,0 mm ²	9,8	59,0	92	
For fixed installation - UL/CSA CMX approval					
2170219	1 x 2 x 0.64	8,0	30,1	57	
For fixed installation - UL/CSA CMG approval					
2170824	1 x 2 x 0.64	8,0	30,1	55	
For fixed installation - "Fast Connect" cable assembly					
2170333	1 x 2 x 0.64	8,0	26,0	67	
For fixed installation - UL/CSA CMX approval					
2170330	1 x 2 x 0.64	8,0	26,0	71	
For fixed installation - "Fast Connect" cable assembly - UL/CSA CMG approval					
2170820	1 x 2 x 0.64	8,0	26,0	84	
2170826	1 x 2 x 0.64	8,0	26,0	67	
2170326	1 x 2 x 0.64	8,0	26,0	72	

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products

AVAILABLE ALSO IN: Special armouring

B LAPP GROUP



UNITRONIC[®] ARMOUR SWA BUS PB

Cable for bus systems profibus - $\ensuremath{\mathsf{DP/FMS/FIP}}$ with steel wire armouring (SWA)

Benefits

- High mechanical protection against accidental impacts
- Excellent rodent protection
- Suitable for direct burial
- UV and water-resistant

Application range

- · Heavy industrial areas
- For indoor or outdoor use
- Methods of deployment: empty plastic pipes, ducts and trays

UNITRONIC[®] ARMOUR SWA LEAD BUS PB

Cable for bus systems profibus - DP/FMS/FIP with extruded lead armouring for chemical protection

Benefits

- Protection against hydrocarbons and other chemicals
- Excellent rodent protection
- High mechanical protection against accidental impacts

Application range

- Harsh oil and chemical environments
- Heavy industrial areas
- For direct burial, especially in the presence of oil and aggressive chemical substances

UNITRONIC[®] ARMOUR SWA AL/HDPE/PA BUS PB

Cable for bus systems profibus - DP/FMS/FIP with aluminum tape and additional HDPE and PA sheaths for water and chemical protection

Benefits

- Aluminum tape acts as an barrier to prevent water penetration
- Cost-efective protection against hydrocarbons and other aggressive chemicals (EN 50288-7)
- High mechanical protection

Application range

- · Harsh oil and chemical environments
- · Heavy industrial areas
- For direct burial, especially in the presence of oil and aggressive chemical substances

Inner and outer sheath materials are based on the area of installation: • For outdoors, PE or PVC is used

For indoor use, where flame retardance is required. LSZH material is used

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