

# UNITRONIC® BUS PB FD

For PROFIBUS-DP/FMS/FIP bus systems; continuous flex applications; 150 Ω

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD FC

UNITRONIC® BUS PB FD cables are designed for automation networks requiring fast and reliable data exchange between controllers and field devices.

## Construction

**Conductors:** stranded bare copper

**Insulation:** polyethylene

**Shielding:** specially designed foil/tinned copper braid

**Jacket:** polyurethane or halogen-free; violet

## Recommended applications

Highly flexible applications like cable tracks & moving machine parts; PROFIBUS-DP/FMS/FIP bus systems

## Application advantage

- Oil-resistant and flame retardant outer jacket
- Fast connect style for quick installation
- Communication rate up to 12 Mbit/s
- LAPP is a member of the PROFIBUS User Organization (PNO)

## Approvals



Cable attributes

page 648

See attribute list by part number on page 166

Complete the installation



SKINTOP® MS-SC page 522



EPIC® DATA connectors page 179

ÖLFLEX® CONNECT solution



PROFIBUS cordsets page 626

## Technical data

**Minimum bend radius:**  
 - for continuous flexing:  
 - 2170222 & 2170822: 9 x cable diameter  
 - 2170322 & 2170854: 15 x cable diameter

**Temperature range:**  
 - for stationary use: -40°C to +80°C  
 - for flexible use: -30°C to +70°C

**Characteristic impedance:** 150 Ω ± 15 Ω

**Nominal capacitance:** 9 pF/ft

**Color code:** red & green pair

**Approvals:**  
 UL: CMX (2170822, 2170322)  
 CMG (2170854)  
 Canada: c(UL) CMX (2170822, 2170322)  
 c(UL) CMG (2170854)  
 Additional: Torsion rated for wind market (± 150°/m) (2170222, 2170822)

Part number	Jacket material	Conductor description	Approvals	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
				in	mm			
2170222	PUR	24 AWG/ 1pr	—	0.315	8	20	43	53112220
2170822	PUR	24 AWG/ 1pr	UL/CSA CMX	0.315	8	20	39	53112220
<b>Fast connect</b>								
2170322	PUR	24 AWG/ 1pr	UL/CSA CMX	0.315	8	17	53	53112220
2170854	halogen-free	24 AWG/ 1pr	UL/CSA CMG	0.315	8	20	50	53112220



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