

# UNITRONIC® BUS PB FD

For PROFIBUS-DP/FMS/FIP Bus Systems; Continuous Flex Applications; 150 Ω



UNITRONIC® BUS PROFIBUS 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; violet

### Recommended Applications

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

### Approvals



### Application Advantage

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

**Cable Attributes** page 640

See attribute list by part number on page 155

**Complete the Installation**




SKINTOP® MS-SC  
page 516



EPIC® DATA Connectors  
page 170

**ÖLFLEX® CONNECT Solution**



PROFIBUS Cordsets  
page 618

### Technical Data

<p><b>Minimum Bend Radius:</b></p> <ul style="list-style-type: none"> <li>- for continuous flexing:</li> <li style="padding-left: 20px;">- 2170222 &amp; 2170822: 9 x cable diameter</li> <li style="padding-left: 20px;">- 2170322: 15 x cable diameter</li> </ul> <p><b>Temperature Range:</b></p> <ul style="list-style-type: none"> <li>- for stationary use: -40°C to +80°C</li> <li>- for flexible use: -30°C to +70°C</li> </ul> <p><b>Characteristic Impedance:</b> 150 Ω ± 15 Ω</p>	<p><b>Nominal Capacitance:</b> 9 pF/ft</p> <p><b>Color Code:</b> Red &amp; green pair</p> <p><b>Approvals:</b></p> <ul style="list-style-type: none"> <li>UL: CMX (2170822, 2170322)</li> <li>Canada: c(UL) CMX (2170822, 2170322)</li> <li>Additional: Torsion rated for Wind Market (± 150°/m) (2170222, 2170822)</li> </ul>
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Part Number	Jacket Type	Conductor Description (AWG/Pair)	Approvals	Nominal Outer Diameter		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
				(in)	(mm)			
<b>Continuous Flex</b>								
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>Continuous Flex: Fast Connect</b>								
2170322	PUR	24 AWG/1pr	UL/CSA CMX	0.315	8	17	53	53112220

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