



## UNITRONIC® BUS PB FD P COMBI

Highly flexible application

■ Technical data	
	<b>Mutual capacitance</b> (800 Hz): max. 30 nF/km
	<b>Peak operating voltage</b> (not for power applications) 100 V
	<b>Minimum bending radius</b> Flexing: 145 mm
	<b>Test voltage</b> Core/core: 600 V
	<b>Temperature range</b> Flexing: -5°C to +50°C Fixed installation: -40°C to +80°C
	<b>Characteristic impedance</b> 150 ± 15 Ohm

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P COMBI	
<b>■ Benefits</b>	<ul style="list-style-type: none"> <li>For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required</li> <li>For highly flexible applications (power chains, moving machine parts)</li> <li>Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP</li> </ul>
<b>■ Product features</b>	<ul style="list-style-type: none"> <li>HYBRID: cable for data transmission + power supply</li> <li>Flame-retardant according to IEC 60332.1.2</li> </ul>
<b>■ Product make-up</b>	<ul style="list-style-type: none"> <li>Cores for Power Supply 3 x 1.0 mm<sup>2</sup> (AWG 18)</li> <li>Core insulation: Based on Polyolefin</li> <li>PUR-based outer sheath</li> </ul>
<b>■ Application range</b>	<ul style="list-style-type: none"> <li>PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).</li> </ul>

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>Highly flexible application</b>					
2170227	UNITRONIC® BUS PB FD P COMBI	1 x 2 x 0.64 Ø + 3 x 1.0 mm <sup>2</sup>	10.1	59.0	125

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](http://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).  
 SIMATIC® is a registered trademark of SIEMENS AG. FIP is a registered trademark of World FIP  
 Lapp Kabel is a member of the PROFIBUS user organisation (PNO)  
 Photographs are not to scale and do not represent detailed images of the respective products.



## UNITRONIC® BUS PB FD P HYBRID

Highly flexible application

■ Technical data	
	<b>Mutual capacitance</b> (800 Hz): max. 30 nF/km
	<b>Peak operating voltage</b> (not for power applications) 100 V
	<b>Minimum bending radius</b> Flexing: 15 x outer diameter
	<b>Test voltage</b> Core/core: 600 V Core/screen: 600 V
	<b>Temperature range</b> Flexing: -30°C to +60°C Fixed installation: -40°C to +70°C
	<b>Characteristic impedance</b> 150 ± 15 Ohm

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P HYBRID	
<b>■ Benefits</b>	<ul style="list-style-type: none"> <li>For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required</li> <li>For highly flexible applications (power chains, moving machine parts)</li> <li>Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP</li> </ul>
<b>■ Product features</b>	<ul style="list-style-type: none"> <li>HYBRID: cable for data transmission + power supply</li> <li>Flame-retardant according to IEC 60332-1-2</li> <li>Oil-resistant</li> </ul>
<b>■ Product make-up</b>	<ul style="list-style-type: none"> <li>Cores for Power Supply 4 x 1.5 mm<sup>2</sup> (AWG 16)</li> </ul>
<b>■ Application range</b>	<ul style="list-style-type: none"> <li>PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).</li> </ul>

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>Highly flexible application</b>					
2170495	UNITRONIC® BUS PB FD P HYBRID	1 x 2 x 0.64 Ø + 4 x 1.5 mm <sup>2</sup>	11.3	89.0	148

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](http://www.lappkabel.de/en/cable-standardlengths)  
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