## **UNITRONIC®**

**Bus cable & connectors** 

# **UNITRONIC® BUS PB FD HYBRID/COMBI**

For PROFIBUS-DP/FMS/FIP bus systems; continuous flex applications; 150  $\Omega$ 



LAPP KABEL STUTTGART UNITRONIC® PB FD Y HYBRID

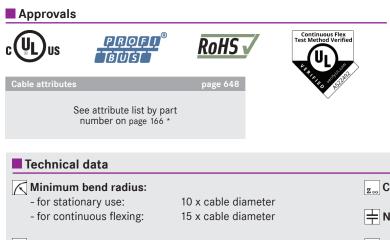


UNCONTROLLED COPY

UNITRONIC<sup>®</sup> BUS PB FD HYBRID/COMBI is designed for automation networks requiring fast and reliable data exchange between controllers and field devices.

#### Recommended applications

Highly flexible hybrid (data and power) applications like power chains & moving machine parts; PROFIBUS-DP/FMS/FIP bus systems



### Construction

Conductors: data pairs: stranded bare copper • power conductors: stranded bare copper

Insulation: data pairs: polyethylene • power conductors: PVC

Shielding: shielded pair and 4 control conductors twisted together with yarn • data pairs: specially designed foil/tinned copper braid

Jacket: PVC or PUR; violet

#### Application advantage

- · Hybrid cable for data transmission and power supply
- · Oil-resistant and flame retardant outer jacket
- Sunlight resistant
- LAPP is a member of the PROFIBUS User Organization (PNO)



Minimum bend radius:	10 x cable diameter 15 x cable diameter	$z_{\infty}$ Characteristic impedance:	150 Ω ± 15 Ω		
<ul> <li>for stationary use:</li> <li>for continuous flexing:</li> </ul>		Hominal capacitance:	9 pF/ft		
Temperature range:		Color code:			
- 2170875:	-5°C to +80°C	- data pairs:	red & green		
- 2170227:	-5°C to +50°C	- power conductors:	black conductors with white numbers		
- 2170495:	-30°C to +60°C		1, 2, 3, 4		
7 Nominal voltage:	(not for power applications)	Approvals: UL:	CMG*		
- 2170875:	600V		CL3*		
- 2170227 & 2170495:	100V	Canada: c(UL) CMG*			
			*UNITRONIC <sup>®</sup> BUS PB FD Y HYBRID		
		*UL Verified ID A522492:	Continuous Flex Test Method Verified		

Part number	Jacket material	Conductor description	Approvals		ninal iameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>UNITRONIC® BUS PI</b>	B FD Y HYBRID							
2170875	PVC	24 AWG/1pr + 16 AWG/4c	UL/CSA CMG	0.445	11.3	60	104	S2116
UNITRONIC <sup>®</sup> BUS PI	B FD P COMBI							
2170227	PUR	24 AWG/1pr + 18 AWG/3c	-	0.398	10.1	40	84	S2116
UNITRONIC <sup>®</sup> BUS PI	B FD P HYBRID							
2170495	PUR	24 AWG/1pr + 16 AWG/4c	-	0.445	11.3	60	100	S2116

PROFIBUS is a registered trademark of PROFIBUS & PROFINET International (PI). Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

