

UNITRONIC® BUS PB FD HYBRID/COMBI

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



LAPP KABEL STUTTGART UNITRONIC® PB FD Y HYBRID



UNITRONIC® 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

Approvals



Cable attributes page 648

See attribute list by part number on page 166 *

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)

Complete the installation



Technical data

<p>Minimum bend radius:</p> <ul style="list-style-type: none"> - for stationary use: 10 x cable diameter - for continuous flexing: 15 x cable diameter <p>Temperature range:</p> <ul style="list-style-type: none"> - 2170875: -5°C to +80°C - 2170227: -5°C to +50°C - 2170495: -30°C to +60°C <p>Nominal voltage: (not for power applications)</p> <ul style="list-style-type: none"> - 2170875: 600V - 2170227 & 2170495: 100V 	<p>Characteristic impedance: 150 Ω ± 15 Ω</p> <p>Nominal capacitance: 9 pF/ft</p> <p>Color code:</p> <ul style="list-style-type: none"> - data pairs: red & green - power conductors: black conductors with white numbers: 1, 2, 3, 4 <p>Approvals:</p> <p>UL: CMG* CL3*</p> <p>Canada: c(UL) CMG*</p> <p>*UNITRONIC® BUS PB FD Y HYBRID</p> <p>*UL Verified ID A522492: Continuous Flex Test Method Verified</p>
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Part number	Jacket material	Conductor description	Approvals	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
				in	mm			
UNITRONIC® BUS PB FD Y HYBRID								
2170875	PVC	24 AWG/1pr + 16 AWG/4c	UL/CSA CMG	0.445	11.3	60	104	S2116
UNITRONIC® BUS PB FD P COMBI								
2170227	PUR	24 AWG/1pr + 18 AWG/3c	—	0.398	10.1	40	84	S2116
UNITRONIC® BUS PB FD P HYBRID								
2170495	PUR	24 AWG/1pr + 16 AWG/4c	—	0.445	11.3	60	100	S2116

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