

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

| 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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