Highly flexible application
For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required
For highly flexible applications (power chains, moving machine parts)
Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP




Automation

Halogen-free

Industrial machinery and plant engineering

Oil-resistant

Power chain

## Application range
PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).

## Design
Cores for Power Supply 4 x 1.5 mm2 (AWG16)

## Product features
HYBRID: cable for data transmission + power supply
Flame-retardant according IEC 60332-1-2
Oil-resistant

## Remark
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
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.



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## Technical Data

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



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| Part number | Article designation | Number of pairs and conductor diameter (mm) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|---|
| Highly flexible application | | | | | |
| 2170495 | UNITRONIC® BUS PB FD P HYBRID | 1 x 2 x 0.64 Ø + 4 x 1.5 mm² | 11.3 | 89.0 | 148 |




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