Highly flexible data transmission cable with PUR outer sheath
Well-proven and reliable
Optimized cable construction for power chain use
Wide temperature range for applications in harsh climatic environments




RoHS

Halogen-free

Cold-resistant

Mechanical resistance

Oil-resistant

Power chain

## Info
Flexible at low temperatures
Low capacitance
Halogen-free

## Application range
Highly flexible data cable with PUR outer sheath, meets the highest service life requirements, even under harsh climatic conditions.
Multifunctional-use, e.g. for packaging industry and storage and retrieval units
Suitable for use in measuring, control and regulating circuits

## Product Make-up
Extra-fine wire strand made of bare copper wires
Core insulation: Based on Polyolefin
Non-woven wrapping
Outer sheath made of special PUR compound
Outer sheath colour: grey (RAL 7001)

## Norm references / Approvals
Based on VDE 0812
For horizontal travel distances up to 100m
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3



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## Product features

PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion when used in power chains
Flame-retardant according IEC 60332-1-2
Halogen-free, has low capacitance and is flexible down to -40°C
Oil-resistant
Low-adhesive surface, resistant to hydrolysis and microbes, 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 150/100 kg. 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).
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## Technical Data

| | |
|---|---|
| Core identification code: | DIN 47100, refer to Appendix T9 |
| Mutual capacitance: | C/C approx. 60 nF/km |
| Peak operating voltage: | (not for power applications) 250 V |
| Classification: | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable |
| Inductivity: | approx. 0.65 mH/km |
| Conductor stranding: | Stranded, extra-fine wire |
| Minimum bending radius: | Flexing: 5 x outer diameter<br>Fixed installation: 3 x outer diameter |
| Test voltage: | 1500 V |
| Temperature range: | Flexing: -40°C to +80°C<br>Fixed installation: -40°C to +80°C |



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| Part number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|
| UNITRONIC® FD P plus | | | | |
| 0028650 | 3 x 0,14 | 3.9 | 4.1 | 25 |
| 0028651 | 4 x 0,14 | 4.2 | 5.6 | 30 |
| 0028652 | 5 x 0,14 | 4.5 | 7.0 | 34 |
| 0028653 | 7 x 0,14 | 5.1 | 9.8 | 48 |
| 0028654 | 10 x 0,14 | 6.1 | 14.0 | 60 |
| 0028655 | 14 x 0,14 | 6.2 | 19.6 | 74 |
| 0028656 | 18 x 0,14 | 6.8 | 25.2 | 87 |
| 0028657 | 25 x 0,14 | 8.3 | 35.0 | 120 |
| 0028658 | 2 x 0,25 | 4.3 | 5.0 | 27 |
| 0028659 | 3 x 0,25 | 4.5 | 7.5 | 32 |
| 0028660 | 4 x 0,25 | 4.9 | 10.0 | 39 |
| 0028661 | 5 x 0,25 | 5.3 | 12.5 | 49 |
| 0028662 | 7 x 0,25 | 6.3 | 17.5 | 61 |
| 0028663 | 10 x 0,25 | 7.4 | 25.0 | 80 |
| 0028664 | 14 x 0,25 | 7.5 | 35.0 | 103 |
| 0028665 | 18 x 0,25 | 8.5 | 45.0 | 125 |
| 0028666 | 25 x 0,25 | 10.4 | 62.5 | 171 |
| 0028667 | 2 x 0,34 | 4.7 | 6.8 | 33 |
| 0028668 | 3 x 0,34 | 5.0 | 10.2 | 41 |
| 0028669 | 4 x 0,34 | 5.4 | 13.6 | 55 |
| 0028670 | 5 x 0,34 | 5.9 | 17.0 | 62 |
| 0028671 | 7 x 0,34 | 6.8 | 23.8 | 80 |
| 0028672 | 10 x 0,34 | 8.5 | 34.0 | 110 |
| 0028673 | 14 x 0,34 | 8.6 | 47.6 | 144 |
| 0028674 | 18 x 0,34 | 9.7 | 61.2 | 175 |
| 0028675 | 25 x 0,34 | 11.9 | 85.0 | 239 |



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