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 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 Fixed installation: 3 x outer diameter
Test voltage:	1500 V
Temperature range:	Flexing: -40°C to +80°C 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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