Screened highly flexible data transmission cable with PVC outer sheath for power chain use
Well-proven and reliable
Optimized cable construction for power chain use
Cost-effective solution
Overall braid minimises electrical interference

RoHS

Power chain

Interference signals

Application range

Automated production processes require data transmission cables that offer high flexibility and durability, as well as excellent screening
Suitable for use in measuring, control and regulating circuits
Assembly lines, production lines, in all kinds of machines

Design

Extra-fine wire strand made of bare copper wires
Core insulation made of PVC
Tinned-copper braiding
Non-woven wrapping
Outer sheath made of PVCOuter sheath colour: grey (RAL 7001)

Norm references / Approvals

Based on VDE 0812
For travel distances up to 10 m.
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

Product features

Low-adhesive surface
Flame-retardant according IEC 60332-1-2
Designed for 2 up to 8 million bending/unbending cycles in power chain applications.

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).
Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	DIN 47100, refer to Appendix T9
Mutual capacitance:	C/C approx. 110 nF/km C/S: approx. 110 nF/km
Peak operating voltage:	(not for power applications) 350 V
Inductivity:	approx. 0.65 mH/km
Specific insulation resistance:	> 20 GOhm x cm
Conductor stranding:	Stranded, extra-fine wire
Minimum bending radius:	Flexing: 7.5 x outer diameter Fixed installation: 4 x Outer diameter
Test voltage:	1500 V
Temperature range:	Flexing: -5°C to +70°C Fixed installation: -40°C to +80°C

Part number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® FD CY				
0027411	3 x 0,14	4.5	14.1	37
0027412	4 x 0,14	4.8	15.5	42
0027413	5 x 0,14	5.1	18.3	47
0027414	7 x 0,14	5.7	27.6	70
0027416	10 x 0,14	6.7	39.3	90
0027418	14 x 0,14	6.8	45.3	106
0027420	18 x 0,14	7.4	54.1	123
0027422	25 x 0,14	8.9	68.4	163
0027425	2 x 0,25	4.9	14.9	39
0027426	3 x 0,25	5.1	18.8	46
0027427	4 x 0,25	5.5	21.3	53
0027428	5 x 0,25	5.9	31.0	71
0027429	7 x 0,25	6.7	39.6	75
0027431	10 x 0,25	8.2	53.9	114
0027434	14 x 0,25	8.3	64.2	141
0027436	18 x 0,25	9.1	78.4	167
0027438	25 x 0,25	11.0	101.0	221
0027440	2 x 0,34	5.3	16.1	47
0027441	3 x 0,34	5.6	28.7	63
0027442	4 x 0,34	6.0	35.7	81
0027443	5 x 0,34	6.5	39.1	89
0027444	7 x 0,34	7.4	52.7	117
0027446	10 x 0,34	9.1	67.4	155
0027448	14 x 0,34	9.2	85.3	194
0027450	18 x 0,34	10.3	99.7	225
0027452	25 x 0,34	12.5	155.0	327