

UNITRONIC® FD



Application range

- Automated production processes require data transmission cables of ever more flexibility and durability
- UNITRONIC® FD series cables are especially suited for power chain use

Product features

- The PVC outer sheath prevents mutual adhesion between several cables in the power chain
- Flame retardant according to IEC 60332-1-2

- Please observe the Installation Guidelines in Table T3.

Approvals (Norm references)



Design

- Stranded bare copper conductor, superfine
- PVC core insulation
- PVC outer sheath
- Colour: grey (RAL 7001)

Technical data

- Core identification code**
DIN 47100, see Appendix T9
- Mutual capacitance**
C/C approx. 100 nF/km
C/S: approx. 100 nF/km
- Peak working voltage**
(not for power applications)
at 0.14 mm²: 350 V
at >= 0.25 mm²: 500 V
- Based on**
VDE 0812
- Specific insulation resistance**
> 20 GOhm x cm
- Inductivity**
approx. 0.65 mH/km
- Conductor stranding**
Strand, superfine wire in accordance with VDE 0295, single wire diameter 0.1 mm
- Conductor resistance**
see Appendix T11
- Minimum bending radius**
For flexible applications:
5 x cable diameter
- Test voltage**
1500 V
- Range of temperature**
Flexing: -5°C up to +70°C
fixed installation:
-40°C up to +70°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm max.	Copper index kg/km	Weight kg/km approx.
UNITRONIC® FD				
0027841	3 x 0.14	4.1	4.2	26.0
0027842	4 x 0.14	4.4	5.6	31.0
0027843	5 x 0.14	4.7	7.0	35.0
0027844	7 x 0.14	5.4	9.8	50.0
0027845	10 x 0.14	6.4	14.0	63.0
0027846	14 x 0.14	6.5	19.6	77.0
0027847	18 x 0.14	7.1	25.2	91.0
0027848	25 x 0.14	8.6	35.0	125.0
0027855	2 x 0.25	4.6	5.0	27.0
0027856	3 x 0.25	4.7	7.5	33.0
0027857	4 x 0.25	5.1	10.0	40.0
0027858	5 x 0.25	5.6	12.5	51.0
0027859	7 x 0.25	6.4	17.5	51.0
0027860	10 x 0.25	7.7	25.0	84.0
0027861	14 x 0.25	7.8	35.0	108.0
0027863	18 x 0.25	8.8	45.0	130.0
0027865	25 x 0.25	10.8	62.5	178.0
0027870	2 x 0.34	4.9	6.8	30.0
0027871	3 x 0.34	5.2	10.2	43.0
0027872	4 x 0.34	5.7	13.6	57.0
0027873	5 x 0.34	6.2	17.0	65.0
0027874	7 x 0.34	7.1	23.8	85.0
0027875	10 x 0.34	8.8	34.0	117.0
0027876	14 x 0.34	8.9	47.6	151.0
0027877	18 x 0.34	10.0	61.2	182.0
0027878	25 x 0.34	12.3	85.0	250.0

Copper price basis: EUR 150 / 100 kg; For utilization and definition of ‚Metal price basis‘ and ‚Metal index‘ see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- UNITRONIC® FD CY see page 264
- UNITRONIC® FD P plus see page 265

Accessories

- SILVYN® CHAIN