

Product Description



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

Design

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

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.



Technical Data

Core identification code

DIN 47100, see Appendix T9

Mutual capacitance

C/C: approx. 100 nF/km

Peak working voltage

(not for power applications) at 0.14 mm²: 350 V

at >= 0.25 mm²: 500 V

Inductivity

approx. 0.65 mH/km

Based on

VDE 0812

Specific insulation resistance

> 20 GOhm x cm

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

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in mm max.	Copper index kg/km	Weight kg/km
UNITRONIC® FD				
0027841	3 x 0,14	4.1	4.2	26
0027842	4 x 0,14	4.4	5.6	31
0027843	5 x 0,14	4.7	7.0	35
0027844	7 x 0,14	5.4	9.8	50
0027845	10 x 0,14	6.4	14.0	63
0027846	14 x 0,14	6.5	19.6	77
0027847	18 x 0,14	7.1	25.2	91
0027848	25 x 0,14	8.6	35.0	125
0027855	2 x 0,25	4.6	5.0	27
0027856	3 x 0,25	4.7	7.5	33
0027857	4 x 0,25	5.1	10.0	40
0027858	5 x 0,25	5.6	12.5	51
0027859	7 x 0,25	6.4	17.5	51
0027860	10 x 0,25	7.7	25.0	84
0027861	14 x 0,25	7.8	35.0	108
0027863	18 x 0,25	8.8	45.0	130
0027865	25 x 0,25	10.8	62.5	178

0027870	2 x 0,34	4.9	6.8	30
0027871	3 x 0,34	5.2	10.2	43
0027872	4 x 0,34	5.7	13.6	57
0027873	5 x 0,34	6.2	17.0	65
0027874	7 x 0,34	7.1	23.8	85
0027875	10 x 0,34	8.8	34.0	117
0027876	14 x 0,34	8.9	47.6	151
0027877	18 x 0,34	10.0	61.2	182
0027878	25 x 0,34	12.3	85.0	250

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

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 \leq 30 kg and \leq 250 m, otherwise drum

Please specify the desired packaging size (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.