

# UNITRONIC® FD

## Multi-Conductor 350V PVC Continuous Flex Industrial Communication Cable; Unshielded

LAPP KABEL STUTTGART UNITRONIC® FD



UNITRONIC® FD is a DIN-style communication cable designed for continuous flexing industrial signal and low voltage control applications. The specially blended PVC jacket is resistant to most oils, solvents, and water-based coolants.

### Recommended Applications

High-speed automated equipment; robotics; CNC and multi-axis cutting equipment; other cable track applications

### Construction

**Conductors:** Finely stranded bare copper

**Insulation:** Specially blended PVC; non-woven wrapping

**Jacket:** Specially formulated gray PVC

### Application Advantage

- Designed for high flexing applications
- Flexible for ease of routing in tight spaces
- Resistant to oils, solvents, and coolants

### Approvals



#### Cable Attributes, see page 659

OR-01	FR-02	CF-02	MP-01
OIL	FLAME	MOTION	MECHANICAL

#### Similar Cables

- UNITRONIC® FD CY
- UNITRONIC® FD P plus

#### Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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### Technical Data

<b>Minimum Bend Radius:</b> - for continuous flexing: 5 x cable diameter	<b>Insulation Resistance:</b> > 20 GΩ x cm
<b>Temperature Range:</b> - for continuous flexing: -5°C to +70°C - for stationary use: -40°C to +70°C	<b>Inductance:</b> approx. 0.65 mH/km
<b>Nominal Voltage:</b> 350V (not for power)	<b>Conductor Stranding:</b> Extra fine wire per VDE 0295
<b>Test Voltage:</b> 1500V	<b>Color Code:</b> DIN 47100: Chart 8, page 697
<b>Mutual Capacitance:</b> - Conductor/conductor: approx. 30 pF/ft	<b>Approvals:</b> Based on VDE 0812 RoHS

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
<b>26 AWG (0.14 mm<sup>2</sup>)</b>						<b>22 AWG (0.34 mm<sup>2</sup>)</b>					
0027841	3	0.161 4.1	3	17	S1107	0027870	2	0.193 4.9	5	20	S1107
0027842	4	0.173 4.4	4	21	S1107	0027871	3	0.205 5.2	7	29	S1107
0027843	5	0.185 4.7	5	24	S1107	0027872	4	0.224 5.7	9	38	S1107
0027844	7	0.213 5.4	7	34	S1107	0027873	5	0.244 6.2	11	44	S1107
0027845	10	0.252 6.4	9	42	S1109	0027874	7	0.280 7.1	16	57	S1111
0027846	14	0.256 6.5	13	52	S1109	0027875	10	0.346 8.8	23	79	S1111
0027847	18	0.280 7.1	17	61	S1111	0027876	14	0.350 8.9	32	101	S1111
0027848	25	0.339 8.6	24	84	S1111	0027877	18	0.394 10.0	41	122	S1113
<b>24 AWG (0.25 mm<sup>2</sup>)</b>						0027878	25	0.484 12.3	57	168	S1116
0027855	2	0.181 4.6	3	18	S1107						
0027856	3	0.185 4.7	5	22	S1107						
0027857	4	0.201 5.1	7	27	S1107						
0027858	5	0.220 5.6	8	30	S1107						
0027859	7	0.252 6.4	12	40	S1109						
0027860	10	0.303 7.7	17	56	S1111						
0027861	14	0.307 7.8	24	73	S1111						
0027863	18	0.346 8.8	30	87	S1111						
0027865	25	0.425 10.8	42	120	S1113						

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® Section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.