

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

Approvals



Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC; non-woven wrapping

Jacket: Specially formulated PVC; gray

Application Advantage

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

Cable Attributes		page 640
OIL	OR-01	FLAME FR-02
MOTION	CF-02	MECH. MP-01

Complete the Installation	
SKINTOP® Strain Relief page 488	EPIC® Connectors page 280

ÖLFLEX® CONNECT Solution	
ÖLFLEX® CONNECT CABLES page 597	

Technical Data

Minimum Bend Radius: - for continuous flexing:	5 x cable diameter	Insulation Resistance:	> 20 GΩ x cm
Temperature Range: - for continuous flexing: - for stationary use:	-5°C to +70°C -40°C to +70°C	Inductance:	approx. 0.65 mH/km
Nominal Voltage:	350V (not for power)	Conductor Stranding:	Extra fine wire per VDE 0295
Test Voltage:	1500V	Color Code:	DIN 47100: Chart 8, page 674
Mutual Capacitance: - Conductor/conductor:	approx. 30 pF/ft	Approvals:	Based on VDE 0812 RoHS

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
26 AWG (0.14 mm²)						22 AWG (0.34 mm²)					
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
24 AWG (0.25 mm²)						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. If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.