

UNITRONIC® FD

Continuous flex 350V multi-conductor PVC 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.

Construction

Conductors: finely stranded bare copper

Insulation: specially blended PVC; non-woven wrapping

Jacket: specially formulated PVC; gray

Recommended applications

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

Application advantage

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

Approvals



Cable attributes		page 648	
OIL	OR-01	FLAME	FR-02
MOTION	CF-02	MECH.	MP-01

Complete the installation	
SKINTOP® strain relief page 497	EPIC® connectors page 284

ÖLFLEX® CONNECT solution	
ÖLFLEX® CONNECT CABLES page 605	

Technical data

Minimum bend radius: - for continuous flexing:	5 x cable diameter	Mutual capacitance: - conductor/conductor:	approx. 30 pF/ft
Temperature range: - for continuous flexing: - for stationary use:	-5°C to +70°C -40°C to +80°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 682
		Approvals:	based on VDE 0812 CE & RoHS

Part number	Number of conductors	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® SL
		in	mm	lbs/mft	lbs/mft	PG thread
26 AWG (0.14 mm²)						
0027841	3	0.161	4.1	3	17	S1107
0027842	4	0.173	4.4	4	21	S1107
0027843	5	0.185	4.7	5	24	S1107
0027844	7	0.213	5.4	7	34	S1107
0027845	10	0.252	6.4	9	42	S1109
0027846	14	0.256	6.5	13	52	S1109
0027847	18	0.280	7.1	17	61	S1111
0027848	25	0.339	8.6	24	84	S1111
24 AWG (0.25 mm²)						
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

Part number	Number of conductors	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® SL
		in	mm	lbs/mft	lbs/mft	PG thread
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
22 AWG (0.34 mm²)						
0027870	2	0.193	4.9	5	20	S1107
0027871	3	0.205	5.2	7	29	S1107
0027872	4	0.224	5.7	9	38	S1107
0027873	5	0.244	6.2	11	44	S1107
0027874	7	0.280	7.1	16	57	S1111
0027875	10	0.346	8.8	23	79	S1111
0027876	14	0.350	8.9	32	101	S1111
0027877	18	0.394	10.0	41	122	S1113
0027878	25	0.484	12.3	57	168	S1116