

UNITRONIC® FD P plus

Continuous flex 250V multi-conductor PUR industrial communication cable; unshielded



UNITRONIC® FD P plus is a communication cable designed for continuous flexing industrial signal and low voltage control applications. The tear-resistant polyurethane jacket provides excellent service life in harsh environments against most oils, solvents, and coolants.

Recommended applications

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

Approvals



Cable attributes		page 648	
OIL	OR-05	FLAME	FR-02
MOTION	CF-02*	MECH.	MP-05

Complete the installation

SKINTOP®
MS-SC
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EPIC®
connectors
page <?>

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES
page 605

Technical data

<p> Minimum bend radius: - for continuous flexing: 5 x cable diameter</p> <p> Temperature range: - for continuous flexing: -40°C to +80°C</p> <p> Nominal voltage: 250V (not for power) - UL AWM: 1000V</p> <p> Test voltage: 1500V</p>	<p> Mutual capacitance: - conductor/conductor: approx. 18 pF/ft</p> <p> Inductance: approx. 0.65 mH/km</p> <p> Conductor stranding: extra fine wire per VDE 0295</p> <p> Color code: DIN 47100: chart 8, page 682</p> <p> Approvals: UL: AWM 21576 Canada: cRU AWM I/II A/B FT2 Additional: CE & RoHS *UL Verified ID A522492: Continuous Flex Test Method Verified</p>
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Part number	Number of conductors	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
26 AWG (0.14 mm²)						
0028647	2	0.146	3.7	2	13	S1107
0028650	3	0.154	3.9	3	17	S1107
0028651	4	0.165	4.2	4	20	S1107
0028652	5	0.177	4.5	5	23	S1107
0028677	6	0.189	4.8	6	28	S1107
0028653	7	0.201	5.1	7	32	S1107
0028654	10	0.240	6.1	9	40	S1109
0028678	12	0.248	6.3	11	45	S1109
0028656	18	0.268	6.8	17	56	S1111
0028657	25	0.327	8.3	24	81	S1111
24 AWG (0.25 mm²)						
0028658	2	0.169	4.3	3	18	S1107
0028659	3	0.177	4.5	5	22	S1107
0028660	4	0.193	4.9	7	24	S1107
0028661	5	0.209	5.3	8	33	S1107
0028679	6	0.240	6.1	10	37	S1109

Part number	Number of conductors	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
0028662	7	0.240	6.1	12	29	S1109
0028663	10	0.291	7.4	17	48	S1111
0028680	12	0.295	7.5	20	58	S1111
0028664	14	0.295	7.5	24	49	S1111
0028665	18	0.335	8.5	30	70	S1111
0028666	25	0.409	10.4	42	89	S1113
22 AWG (0.34 mm²)						
0028667	2	0.185	4.7	5	22	S1107
0028668	3	0.197	5.0	7	26	S1107
0028669	4	0.213	5.4	9	28	S1107
0028670	5	0.232	5.9	11	30	S1107
0028671	7	0.268	6.8	16	37	S1111
0028672	10	0.335	8.5	23	57	S1111
0028673	14	0.339	8.6	32	63	S1111
0028674	18	0.382	9.7	41	88	S1113
0028675	25	0.469	11.9	57	134	S1116

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.