

UNITRONIC® FD CP plus

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

LAPP KABEL STUTTGART UNITRONIC® FD CP plus



UNITRONIC® FD CP plus is a Type CMX approved communication cable designed for continuous flexing industrial signal and low voltage applications. The tear-resistant polyurethane jacket provides excellent service life in harsh environments against most oils, solvents, and coolants. It has a tinned copper braid shield for EMI resistance.

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 page 522	EPIC® connectors page 284

ÖLFLEX® CONNECT solution	
ÖLFLEX® CONNECT CABLES page 605	

Construction

- Conductors:** finely stranded bare copper
- Insulation:** polyolefin; non-woven wrapping
- Shielding:** tinned copper braid (85% coverage)
- Jacket:** specially formulated polyurethane; gray

Application advantage

- UL/c(UL) CMX approved
- Flexible at -40°C
- Resistant to oils, solvents, and coolants
- Abrasion-resistant & halogen-free jacket
- Resistant to microbes and hydrolysis
- Designed for high flexing applications

Technical data

Minimum bend radius: - for continuous flexing:	7.5 x cable diameter	Mutual capacitance: - conductor/conductor:	approx. 18 pF/ft
Temperature range: - for continuous flexing:	-40°C to +80°C - AWM: up to +80°C - CMX: up to +75°C	Inductance:	approx. 0.65 mH/km
Nominal voltage: - UL AWM:	250V (not for power) 1000V	Conductor stranding:	extra fine wire per VDE 0295
Test voltage: - conductor/conductor: - conductor/shield:	1500V 500V	Color code:	DIN 47100: chart 8, page 682
		Approvals:	UL: AWM 21576 CMX Canada: c(UL) CMX cRU AWM I/II A/B FT2 Additional: CE & RoHS

Part number	Number of conductors	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
26 AWG (0.14 mm²)						
0028880	2	0.169	4.3	8	22	53112210
0028881	3	0.177	4.5	9	24	53112210
0028882	4	0.189	4.8	10	27	53112210
0028883	5	0.201	5.1	12	30	53112210
0028884	7	0.224	5.7	19	45	53112210
0028885	10	0.264	6.7	26	58	53112210
0028886	14	0.268	6.8	30	69	53112210
0028887	18	0.291	7.4	36	79	53112220
0028888	25	0.350	8.9	46	106	53112220
24 AWG (0.25 mm²)						
0028889	2	0.185	4.7	10	26	53112210
0028890	3	0.193	4.9	13	30	53112210
0028891	4	0.209	5.3	14	35	53112210
0028892	5	0.220	5.6	21	46	53112210

Part number	Number of conductors	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
0028893	7	0.252	6.4	27	56	53112210
0028894	10	0.299	7.6	36	73	53112220
0028895	14	0.311	7.9	43	91	53112220
0028896	18	0.339	8.6	53	108	53112230
0028897	25	0.409	10.4	68	143	53112240
22 AWG (0.34 mm²)						
0028898	2	0.201	5.1	12	30	53112210
0028899	3	0.213	5.4	19	41	53112210
0028900	4	0.228	5.8	24	52	53112210
0028901	5	0.244	6.2	26	56	53112210
0028902	7	0.280	7.1	35	73	53112220
0028903	10	0.339	8.6	45	99	53112230
0028904	14	0.346	8.8	58	125	53112230
0028905	18	0.386	9.8	67	145	53112230
0028906	25	0.465	11.8	104	211	53112240

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.