

# UNITRONIC® FD CP plus

## Multi-Conductor 250V PUR Continuous Flex 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



### 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

Cable Attributes		page 640	
OIL	OR-05	FLAME	FR-02
MOTION	CF-02	MECH.	MP-05

Complete the Installation	
SKINTOP® MS-SC page 516	EPIC® Connectors page 280

ÖLFLEX® CONNECT Solution	
ÖLFLEX® CONNECT CABLES page 597	

### Technical Data

<b>Minimum Bend Radius:</b> - for continuous flexing:	7.5 x cable diameter	<b>Mutual Capacitance:</b> - Conductor/conductor:	approx. 18 pF/ft
<b>Temperature Range:</b> - for continuous flexing:	-40°C to +80°C	<b>Insulation Resistance:</b>	> 5 GΩ x cm
<b>Nominal Voltage:</b> - UL AWM:	250V (not for power) 1000V	<b>Inductance:</b>	approx. 0.65 mH/km
<b>Test Voltage:</b> - Conductor/conductor: - Conductor/shield:	1500V 500V	<b>Conductor Stranding:</b>	Extra fine wire per VDE 0295
		<b>Color Code:</b>	DIN 47100: Chart 8, page 674
		<b>Approvals:</b>	UL: AWM 21576 CMX Canada: c(UL) CMX cRU AWM I/II A/B FT2 Additional: RoHS

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>26 AWG (0.14 mm<sup>2</sup>)</b>						<b>22 AWG (0.34 mm<sup>2</sup>)</b>					
0028880	2	0.169 4.3	8	22	53112210	0028893	7	0.264 6.7	27	56	53112210
0028881	3	0.177 4.5	9	24	53112210	0028894	10	0.323 8.2	36	73	53112220
0028882	4	0.189 4.8	10	27	53112210	0028895	14	0.327 8.3	43	91	53112220
0028883	5	0.201 5.1	12	30	53112210	0028896	18	0.358 9.1	53	108	53112230
0028884	7	0.224 5.7	19	45	53112210	0028897	25	0.433 11	68	143	53112240
0028885	10	0.264 6.7	26	58	53112210	0028898	2	0.209 5.3	12	30	53112210
0028886	14	0.268 6.8	30	69	53112210	0028899	3	0.220 5.6	19	41	53112210
0028887	18	0.291 7.4	36	79	53112220	0028900	4	0.236 6	24	52	53112210
0028888	25	0.193 4.9	46	106	53112220	0028901	5	0.256 6.5	26	56	53112210
<b>24 AWG (0.25 mm<sup>2</sup>)</b>						0028902	7	0.291 7.4	35	73	53112220
0028889	2	0.193 4.9	10	26	53112210	0028903	10	0.358 9.1	45	99	53112230
0028890	3	0.201 5.1	13	30	53112210	0028904	14	0.362 9.2	58	125	53112230
0028891	4	0.217 5.5	14	35	53112210	0028905	18	0.406 10.3	67	145	53112230
0028892	5	0.232 5.9	21	46	53112210	0028906	25	0.508 12.9	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. For current information go to our website.