

# UNITRONIC® FD CP (TP) plus

## Multi-Pair 250V PUR Continuous Flex Industrial Communication Cable; Shielded



UNITRONIC® FD CP (TP) plus is a Type CMX approved multi-pair communication cable designed for continuous flexing industrial signal and data 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

**Pairs:** Conductors are paired and twisted together; non-woven wrapping

**Shielding:** Tinned copper braid

**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

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> - up to 0.5 mm <sup>2</sup> : 18 pF/ft - up to 1.0 mm <sup>2</sup> : 21 pF/ft
<b>Temperature Range:</b> - for continuous flexing: -40°C to +80°C	<b>Inductance:</b> approx. 0.65 mH/km
<b>Nominal Voltage:</b> 250V (not for power)	<b>Conductor Stranding:</b> Extra fine wire per VDE 0295
<b>Test Voltage:</b> - Conductor/conductor: 1500V - Conductor/shield: 500V	<b>Color Code:</b> DIN 47100: Chart 7, page 674
<b>Insulation Resistance:</b> > 5 GΩ x cm	<b>Approvals:</b> UL: AWM 21576 CMX Canada: c(UL) CMX cRU AWM I/II A/B FT2 Additional: RoHS

Part Number	Number of Pairs	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Pairs	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>						0030929	3	0.343 8.7	35	68	53112220
0030910	2	0.244 6.2	13	28	53112210	0030930	4	0.374 9.5	40	80	53112230
0030911	3	0.256 6.5	16	36	53112210	0030932	6	0.433 11.0	58	111	53112230
0030912	4	0.276 7.0	18	40	53112210	0030933	8	0.504 12.8	72	149	53112240
0030913	5	0.299 7.6	25	50	53112220	0030934	10	0.587 14.9	88	184	53112250
0030914	6	0.307 7.8	33	61	53112220	<b>20 AWG (0.50 mm<sup>2</sup>)</b>					
0030915	8	0.358 9.1	37	73	53112220	0030964	1	0.244 6.2	15	32	53112210
0030916	10	0.413 10.5	40	81	53112230	0030937	2	0.366 9.3	34	67	53112230
<b>24 AWG (0.25 mm<sup>2</sup>)</b>						0030938	3	0.398 10.1	48	87	53112230
0030962	1	0.201 5.1	9	18	53112210	0030939	4	0.437 11.1	50	99	53112230
0030919	2	0.287 7.3	22	40	53112220	0030940	5	0.484 12.3	57	113	53112240
0030920	3	0.303 7.7	26	48	53112220	0030941	6	0.500 12.7	67	130	53112240
0030921	4	0.339 8.6	29	57	53112220	0030942	8	0.594 15.1	97	191	53112250
0030922	5	0.366 9.3	35	69	53112230	0030943	10	0.677 17.2	118	230	53112260
0030923	6	0.378 9.6	48	88	53112230	0030944	14	0.689 17.5	145	269	53112260
0030924	8	0.445 11.3	50	104	53112240	<b>18 AWG (1.00 mm<sup>2</sup>)</b>					
0030925	10	0.512 13.0	60	125	53112240	0030955	1	0.276 7.0	28	48	53112210
0030926	14	0.520 13.2	75	147	53112240	0030956	2	0.433 11.0	49	87	53112230
<b>22 AWG (0.34 mm<sup>2</sup>)</b>						0030957	3	0.469 11.9	63	114	53112240
0030963	1	0.220 5.6	13	24	53112210	0030958	4	0.516 13.1	79	137	53112240
0030928	2	0.323 8.2	28	54	53112220	0030959	5	0.579 14.7	93	159	53112250

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.