

UNITRONIC® FD CP (TP) plus



Multi-Pair, Braid Shielded

250V PUR, Continuous Flex, Industrial Communication Cable

The UNITRONIC® FD CP (TP) plus series of communication cables with twisted pairs are designed for continuous flexing in industrial signal and bus applications. Tear and abrasion resistant polyurethane jacket provides superior service life in harsh environments with outstanding resistance to most oils, solvents and coolants. EMC resistant design with braid shielding construction is available in all conductor styles.

Application Advantage:

- Designed for high flexing applications up to 8 million flex life cycles
- Flexible construction for ease of routing in tight spaces
- Excellent cut-through and abrasion resistance
- Outstanding oil, solvent and coolant resistance
- Round geometry facilitates liquid-tight installation per IP 67 or NEMA 6

Recommended Applications:

High Speed Automated Equipment, Robotics, CNC, Multi-Axis cutting equipment.

UNITRONIC® FD CP (TP) Construction:

Finely stranded bare copper conductors; polyolefin insulation; conductors paired and cabled together; dry lubricant; non-wicking textile wrap; tinned copper braid (85% coverage); gray polyurethane jacket for a halogen-free construction.



Cable Attributes, See Page 653 Oil Resistance: OR-05 Motion Type: CF-01 Flame Resistance: FR-02 Mechanical Properties: MP-05		Availability: Standard put-ups are 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with: SKINTOP® Strain Relief: Page 486 OLFLEX® Tubing: Page 546 EPIC® Connectors: Page 251 OLFLEX® Track: Page 612
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Technical Data:

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| Minimum Bending Radius for continuous flexing: 7.5 x cable diameter | Conductor Stranding: Super fine wire, per VDE 0295, Class 6 |
| Temperature Range: Fixed Installation -40°C to +70°C
Flexing Installation -5°C to +70°C | Color Code: DIN 47100, Chart 7, Page 673 |
| Working Voltage: 250V | Approvals: UL: Type CMX
CSA: Type CMX |
| Test Voltage: 1500V | |

Part Number	Number of Pairs	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Pairs	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm ²							20 AWG (28/34) 0.50 mm ²						
0030910	2	.244	6.2	13	26	42	0030930	4	.374	9.5	40	74	119
0030911	3	.256	6.5	16	33	53	0030932	6	.433	11.0	58	103	165
0030912	4	.268	6.8	18	37	59	0030933	8	.480	12.2	72	137	221
0030913	5	.287	7.3	25	47	75	0030934	10	.559	14.2	88	170	274
0030914	6	.295	7.5	33	57	91	0030964	1	.244	6.2	15	29	47
0030915	8	.346	8.8	37	68	109	0030937	2	.366	9.3	34	62	99
0030916	10	.394	10.0	40	75	120	0030938	3	.398	10.1	48	81	130
24 AWG (32/38) 0.25 mm ²							0030939	4	.421	10.7	50	92	148
0030962	1	.201	5.1	9	17	27	0030940	5	.465	11.8	57	104	168
0030919	2	.287	7.3	22	37	60	0030941	6	.480	12.2	67	121	194
0030920	3	.303	7.7	26	45	72	0030942	8	.567	14.4	97	176	284
0030921	4	.327	8.3	29	55	89	0030943	10	.646	16.4	118	213	343
0030922	5	.350	8.9	35	64	103	0030944	14	.657	16.7	145	249	401
0030923	6	.362	9.2	48	81	131	18 AWG (42/34) 1.00 mm ²						
0030924	8	.425	10.8	50	96	155	0030955	1	.276	7.0	28	44	71
0030925	10	.488	12.4	60	116	186	0030956	2	.433	11.0	49	80	129
0030926	14	.496	12.6	75	136	219	0030957	3	.469	11.9	63	105	169
22 AWG (42/38) 0.34 mm ²							0030958	4	.492	12.5	79	127	204
0030963	1	.220	5.6	13	22	36	0030959	5	.555	14.1	93	147	237
0030928	2	.346	8.8	28	50	81							
0030929	3	.343	8.7	35	63	101							