

UNITRONIC® FD CP (TP) plus

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

LAPP KABEL STUTTGART UNITRONIC® FD CP (TP) plus



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

Complete the installation

	SKINTOP® MS-SC page <?>		EPIC® connectors page <?>
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ÖLFLEX® CONNECT solution

	ÖLFLEX® CONNECT CABLES page 605
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Technical data

Minimum bend radius: - for continuous flexing:	7.5 x cable diameter	Mutual capacitance: - up to 0.5 mm ² : - up to 1.0 mm ² :	18 pF/ft 21 pF/ft
Temperature range: - for continuous flexing: - AWM: - CMX:	-40°C to +80°C up to +80°C up to +75°C	Inductance:	approx. 0.65 mH/km
Nominal voltage:	250V (not for power)	Conductor stranding:	extra fine wire per VDE 0295
Test voltage: - conductor/conductor: - conductor/shield:	1500V 500V	Color code:	DIN 47100: chart 7, page 682
		Approvals:	UL: AWM 21576 CMX Canada: c(UL) CMX cRU AWM I/II A/B FT2 Additional: CE & RoHS *UL Verified ID A522492: Continuous Flex Test Method Verified

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.

UNITRONIC® FD CP (TP) plus

Part number	Number of pairs	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
26 AWG (0.14 mm²)						
0030910	2	0.232	5.9	13	28	53112210
0030911	3	0.244	6.2	16	36	53112210
0030912	4	0.264	6.7	18	40	53112210
0030913	5	0.287	7.3	25	50	53112220
0030914	6	0.295	7.5	33	61	53112220
0030915	8	0.346	8.8	37	73	53112220
0030916	10	0.398	10.1	40	81	53112230
24 AWG (0.25 mm²)						
0030962	1	0.185	4.7	9	18	53112210
0030919	2	0.260	6.6	22	40	53112220
0030920	3	0.276	7.0	26	48	53112220
0030921	4	0.299	7.6	29	57	53112220
0030922	5	0.335	8.5	35	69	53112230
0030923	6	0.346	8.8	48	88	53112230
0030924	8	0.406	10.3	50	104	53112240
0030925	10	0.465	11.8	60	125	53112240
0030926	14	0.472	12.0	75	147	53112240
22 AWG (0.34 mm²)						
0030963	1	0.201	5.1	13	24	53112210
0030928	2	0.287	7.3	28	54	53112220

Part number	Number of pairs	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
0030929	3	0.315	8.0	35	68	53112220
0030930	4	0.343	8.7	40	80	53112230
0030932	6	0.394	10.0	58	111	53112230
0030934	10	0.539	13.7	88	184	53112250
20 AWG (0.5 mm²)						
0030964	1	0.232	5.9	15	32	53112210
0030937	2	0.327	8.3	34	67	53112230
0030938	3	0.346	8.8	48	87	53112230
0030939	4	0.386	9.8	50	99	53112230
0030940	5	0.421	10.7	57	113	53112240
0030941	6	0.445	11.3	67	130	53112240
0030942	8	0.520	13.2	97	191	53112250
0030943	10	0.598	15.2	118	230	53112260
0030944	14	0.610	15.5	145	269	53112260
18 AWG (1 mm²)						
0030955	1	0.248	6.3	28	48	53112210
0030956	2	0.390	9.9	49	87	53112230
0030957	3	0.413	10.5	63	114	53112240
0030958	4	0.465	11.8	79	137	53112240
0030959	5	0.516	13.1	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.