

# UNITRONIC® FD CY

## Continuous flex 350V multi-conductor PVC industrial communication cable; shielded

LAPP KABEL STUTTGART UNITRONIC® FD CY



UNITRONIC® FD CY is a DIN-style communication cable designed for continuous flexing industrial signal and communication applications. It has a tinned copper braid shield for EMI resistance.

### Construction

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

### Recommended applications

High-speed automated equipment; robotics; CNC and multi-axis cutting equipment; other cable track applications

### Application advantage

- Designed for high flexing applications
- Flexible for ease of routing in tight spaces
- Resistant to oils, solvents, and coolants

### Approvals



Cable attributes		page 648	
OIL	OR-01	FLAME	FR-02
MOTION	CF-02*	MECH.	MP-01

Complete the installation

SKINTOP® MS-SC  
page <?>

EPIC® connectors  
page <?>

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES  
page 605

### Technical data

<p> <b>Minimum bend radius:</b> - for continuous flexing: 7.5 x cable diameter</p> <p> <b>Temperature range:</b> - for continuous flexing: -5°C to +70°C - for stationary use: -40°C to +80°C</p> <p> <b>Nominal voltage:</b> 350V (not for power)</p> <p> <b>Test voltage:</b> 1500V</p>	<p> <b>Mutual capacitance:</b> - conductor/conductor &amp; conductor/shield: approx. 33 pF/ft</p> <p> <b>Inductance:</b> approx. 0.65 mH/km</p> <p> <b>Conductor stranding:</b> extra fine wire per VDE 0295</p> <p> <b>Color code:</b> DIN 47100: chart 8, page 682</p> <p> <b>Approvals:</b> based on VDE 0812 CE &amp; RoHS</p> <p>*UL Verified ID A522492: Continuous Flex Test Method Verified</p>
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Part number	Number of conductors	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
<b>26 AWG (0.14 mm²)</b>						
0027411	3	0.185	4.7	9	25	53112210
0027412	4	0.197	5.0	10	28	53112210
0027413	5	0.213	5.4	12	32	53112210
0027414	7	0.236	6.0	19	47	53112210
0027416	10	0.276	7.0	26	60	53112210
0027418	14	0.280	7.1	30	71	53112210
0027420	18	0.303	7.7	36	83	53112220
0027422	25	0.362	9.2	46	110	53112220
<b>24 AWG (0.25 mm²)</b>						
0027425	2	0.201	5.1	10	26	53112210
0027426	3	0.213	5.4	13	31	53112210
0027427	4	0.228	5.8	14	36	53112210
0027428	5	0.244	6.2	20	48	53112210
0027429	7	0.276	7.0	27	50	53112210

Part number	Number of conductors	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
0027431	10	0.335	8.5	36	77	53112220
0027434	14	0.339	8.6	43	95	53112220
0027436	18	0.370	9.4	53	112	53112230
0027438	25	0.449	11.4	68	149	53112240
<b>22 AWG (0.34 mm²)</b>						
0027440	2	0.220	5.6	11	32	53112210
0027441	3	0.232	5.9	19	42	53112210
0027442	4	0.248	6.3	24	54	53112210
0027443	5	0.268	6.8	26	60	53112210
0027444	7	0.303	7.7	35	79	53112220
0027446	10	0.370	9.4	45	104	53112230
0027448	14	0.374	9.5	57	130	53112230
0027450	18	0.421	10.7	67	151	53112230
0027452	25	0.508	12.9	104	220	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.