

# UNITRONIC® FD CY

## Multi-Conductor 350V PVC Continuous Flex 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 640	
OIL	OR-01	FLAME	FR-02
MOTION	CF-02	MECH.	MP-01

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>Insulation Resistance:</b>	> 20 GΩ x cm
<b>Temperature Range:</b> - for continuous flexing: - for stationary use:	-5°C to +70°C -40°C to +70°C	<b>Inductance:</b>	approx. 0.65 mH/km
<b>Nominal Voltage:</b>	350V (not for power)	<b>Conductor Stranding:</b>	Extra fine wire per VDE 0295
<b>Test Voltage:</b>	1500V	<b>Color Code:</b>	DIN 47100: Chart 8, page 674
<b>Mutual Capacitance:</b> - Conductor/conductor & conductor/shield:	approx. 33 pF/ft	<b>Approvals:</b>	Based on VDE 0812 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 mm²)</b>						<b>22 AWG (0.34 mm²)</b>					
0027411	3	0.185 4.7	9	25	53112210	0027440	2	0.220 5.6	11	32	53112210
0027412	4	0.197 5.0	10	28	53112210	0027441	3	0.232 5.9	19	42	53112210
0027413	5	0.213 5.4	12	32	53112210	0027442	4	0.248 6.3	24	54	53112210
0027414	7	0.236 6.0	19	47	53112210	0027443	5	0.268 6.8	26	60	53112210
0027416	10	0.276 7.0	26	60	53112210	0027444	7	0.303 7.7	35	79	53112220
0027418	14	0.280 7.1	30	71	53112210	0027446	10	0.370 9.4	45	104	53112230
0027420	18	0.303 7.7	36	83	53112220	0027448	14	0.374 9.5	57	130	53112230
0027422	25	0.362 9.2	46	110	53112220	0027450	18	0.421 10.7	67	151	53112230
<b>24 AWG (0.25 mm²)</b>						0027452	25	0.508 12.9	104	220	53112240
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						
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						

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.