

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		EPIC® Connectors
	page 516		page 280

ÖLFLEX® CONNECT Solution	
	ÖLFLEX® CONNECT CABLES
	page 597

Technical Data

Minimum Bend Radius:
- for continuous flexing: 7.5 x cable diameter

Temperature Range:
- for continuous flexing: -5°C to +70°C
- for stationary use: -40°C to +70°C

Nominal Voltage: 350V (not for power)

Test Voltage: 1500V

Mutual Capacitance:
- Conductor/conductor & conductor/shield: approx. 33 pF/ft

Insulation Resistance: > 20 GΩ x cm

Inductance: approx. 0.65 mH/km

Conductor Stranding: Extra fine wire per VDE 0295

Color Code: DIN 47100: Chart 8, page 674

Approvals: 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
26 AWG (0.14 mm²)							22 AWG (0.34 mm²)						
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
24 AWG (0.25 mm²)							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.