

UNITRONIC® FD CY



Multi-Conductor, Braid Shielded

250V PVC, Continuous Flex, Industrial Communication Cable

The UNITRONIC® FD series of communication cables are designed for continuous flexing in industrial signal and bus applications. EMC resistant design with braid shielding construction are available in all conductor styles.

Recommended Applications:

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

Application Advantage:

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

UNITRONIC® FD CY Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; non-wicking textile wrap; tinned copper braid (85% coverage); specially formulated gray PVC jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-02 Motion Type: CF-01 Flame Resistance: FR-02 Mechanical Properties: MP-01		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 | Test Voltage: 1500V |
| Temperature Range: for flexing: -5°C to +70°C; for fixed installations: -40°C to +70°C | Conductor Stranding: Super fine wire, per VDE 0295, Class 6 |
| Working Voltage: 250V | Color Code: DIN 47100, Chart 8, Page 674 |
| | Approvals: Based on VDE Specifications |

Part Number	Number of Conductors	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm²							22 AWG (42/38) 0.34 mm²						
0027411	3	.185	4.7	10	25	37	0027440	2	.220	5.6	11	32	47
0027412	4	.197	5.0	10	28	42	0027441	3	.232	5.9	19	42	63
0027413	5	.213	5.4	12	32	47	0027442	4	.248	6.3	24	54	81
0027414	7	.236	6.0	19	47	70	0027443	5	.268	6.8	26	60	89
0027416	10	.276	7.0	26	60	90	0027444	7	.303	7.7	35	79	117
0027418	14	.280	7.1	30	71	106	0027446	10	.370	9.4	45	104	155
0027420	18	.303	7.7	36	83	123	0027448	14	.374	9.5	57	130	194
0027422	25	.362	9.2	46	110	163	0027450	18	.421	10.7	67	151	225
24 AWG (32/38) 0.25 mm²							0027452	25	.508	12.9	104	220	327
0027425	2	.201	5.1	10	26	39							
0027426	3	.213	5.4	13	31	46							
0027427	4	.228	5.8	14	36	53							
0027428	5	.244	6.2	21	48	71							
0027429	7	.276	7.0	27	60	89							
0027431	10	.335	8.5	36	77	114							
0027434	14	.339	8.6	43	95	141							
0027436	18	.370	9.4	53	112	167							
0027438	25	.449	11.4	68	148	221							