

UNITRONIC® FD



Multi-Conductor, Unshielded

250V PVC, Continuous Flex, Industrial Communication Cable

The UNITRONIC® FD series of DIN style communication cables are designed for continuous flexing in industrial signal and bus applications. The specially blended PVC jacket is resistant to most oils, solvents and water based coolants and is resistant to adjacent cable adherence in cable track installation.

Recommended Applications:

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





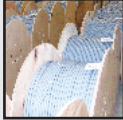



Application Advantage:

- 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 Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; non-wicking textile wrap; specially formulated gray PVC jacket.

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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: | 5 x cable diameter |  Test Voltage: | 1500V |
|  Temperature Range: for flexing: | -5°C to +70°C |  Conductor Stranding: | Super fine wire, per VDE 0295, Class 6 |
| | for fixed installations: -40°C to +70°C |  Color Code: | DIN 47100, Chart 8, Page 674 |
|  Working Voltage: | 250V |  Approvals: | Based on VDE Specifications |

Part Number	Number of Conductors	Nominal Outer Diameter inches	mm	Copper Weight lbs/mt	kg/km	Approx. Weight lbs/mt	kg/km	Part Number	Number of Conductors	Nominal Outer Diameter inches	mm	Copper Weight lbs/mt	kg/km	Approx. Weight lbs/mt	kg/km
26 AWG (18/38) 0.14 mm ²								22 AWG (42/38) 0.34 mm ²							
0027841	3	.161	4.1	3	17	26		0027870	2	.193	4.9	5	20	30	
0027842	4	.173	4.4	4	21	31		0027871	3	.205	5.2	7	29	43	
0027843	5	.185	4.7	5	24	35		0027872	4	.224	5.7	9	38	57	
0027844	7	.213	5.4	7	34	50		0027873	5	.244	6.2	12	44	65	
0027845	10	.252	6.4	9	42	63		0027874	7	.280	7.1	16	57	85	
0027846	14	.256	6.5	13	52	77		0027875	10	.346	8.8	23	79	117	
0027847	18	.283	7.1	17	61	91		0027876	14	.350	8.9	33	101	151	
0027848	25	.339	8.6	23	84	125		0027877	18	.394	10.0	42	122	182	
24 AWG (32/38) 0.25 mm ²								0027878	25	.484	12.3	58	168	250	
0027855	2	.181	4.6	3	18	27									
0027856	3	.185	4.7	4	22	33									
0027857	4	.201	5.1	6	27	40									
0027858	5	.220	5.6	7	34	51									
0027859	7	.252	6.4	10	43	64									
0027860	10	.303	7.7	15	56	84									
0027861	14	.307	7.8	21	73	108									
0027863	18	.346	8.8	26	87	130									
0027865	25	.425	10.8	37	120	178									