

UNITRONIC® FD 890



Multi-Conductor, Unshielded

300V PVC, Continuous Flex, Industrial Communication Cable

The UNITRONIC® FD 890 series of 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 890 Construction:

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



Cable Attributes, See Page 653		Availability:		Complete the installation with:	
Oil Resistance: OR-02	Flame Resistance: FR-02	Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251	OLFLEX® Tubing: Page 546
Motion Type: CF-01	Mechanical Properties: MP-01				

Technical Data:

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|--|----------------------|----------------------|--|
| Minimum Bending Radius for continuous flexing: | 7.5 x cable diameter | Conductor Stranding: | Super fine wire, per VDE 0295, Class 6 |
| Temperature Range: | -5°C to +90°C | Color Code: | DIN 47100, Chart 8, Page 674 |
| Nominal Voltage: | 300V | Approvals: | UL: AWM
CSA: AWM II A/B FT1 |
| Test Voltage: | 1500V | | |

Part Number	Number of Conductors	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
24 AWG (32/38) 0.25 mm ²							22 AWG (42/38) 0.34 mm ²						
892403	3	.205	5.2	4	26	38	892203	3	.220	5.6	7	33	49
892405	5	.228	5.8	7	40	59	892205	5	.256	6.5	12	50	75
892407	7	.295	7.5	10	50	74	892207	7	.291	7.4	16	66	98
892410	10	.335	8.5	15	65	97	892210	10	.374	9.5	23	91	135
892414	14	.358	9.1	21	83	124	892214	14	.382	9.7	33	140	209
892418	18	.386	9.8	26	101	150	892218	18	.413	10.5	42	161	240
892425	25	.453	11.5	37	138	205	892225	25	.520	13.2	58	193	288