

# UNITRONIC® SENSOR FD

## Multi-Conductor Continuous Flex Communication Cable with PUR Jacket; 300V



UNITRONIC® SENSOR FD is designed for sensor and actuator wiring. Constructed with extra-fine stranding, this cable is suitable for continuous flex applications. The abrasion- and tear-resistant PUR jacket provides superior service life in harsh environments and is also resistant to most oils, solvents, and coolants.

### Recommended Applications

Wiring of sensors and actuators; data transmission cables to connect to M8 or M12 connectors; automation technology; plant engineering

### Approvals



### Unshielded Construction

**Conductors:** Super fine stranded bare copper

**Insulation:** Polypropylene

**Jacket:** Halogen-free polyurethane; black

### Shielded Construction

**Conductors:** Super fine stranded bare copper

**Insulation:** Polypropylene

**Shielding:** Tinned copper braid

**Jacket:** Halogen-free polyurethane; black

### Application Advantage

- Designed for continuous flexing
- Highly flexible construction for ease of routing in tight spaces
- Excellent abrasion and cut resistance
- Outstanding oil, solvent, and coolant resistance
- Round geometry facilitates liquid-tight installation

Cable Attributes		page 640	
OIL	OR-04	FLAME	FR-01
MOTION	CF-02	MECH.	MP-05

Complete the Installation	
SKINTOP® Strain Relief page 488	SKINTOP® MS-SC page 516

ÖLFLEX® CONNECT Solution	
	ÖLFLEX® CONNECT CABLES page 597

### Technical Data

<b>Minimum Bend Radius:</b>	- for stationary use: 5 x cable diameter	<b>Color Code:</b>	- 3 conductors: 1: Brown, 2: Blue, 3: Black
	- for continuous flexing: 10 x cable diameter		- 4 conductors: 1: Brown, 2: White, 3: Blue, 4: Black
			- 5 conductors: 1: Brown, 2: White, 3: Blue, 4: Black
<b>Temperature Range:</b>	- for stationary use: -40°C to +80°C		5: Gray
	- for flexible use: -15°C to +80°C		- 8 conductors: 1: White, 2: Brown, 3: Green,
			4: Yellow, 5: Gray, 6: Pink, 7: Blue,
			8: Red
<b>Nominal Voltage:</b>	300V	<b>Approvals:</b>	UL: AWM 20549
			Additional: RoHS

Part Number	Number of Conductors (incl. ground)	Shielding	Nominal Outer Diameter (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	SKINTOP® MS-SC PG Thread
<b>24 AWG (0.25 mm<sup>2</sup>)</b>								
7038867	5	Unshielded	0.185	4.7	8	23	S2107	—
7038868	8	Unshielded	0.232	5.9	13	34	S2107	—
<b>22 AWG (0.34 mm<sup>2</sup>)</b>								
7038864	3	Unshielded	0.181	4.6	7	20	S2107	—
7038865	4	Unshielded	0.185	4.7	8	27	S2107	—
7038866	5	Unshielded	0.201	5.1	11	30	S2107	—
7038885	3	Shielded	0.181	4.6	13	79	—	53112210
7038886	4	Shielded	0.185	4.7	16	88	—	53112210
7038887	5	Shielded	0.201	5.1	18	97	—	53112210

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.