

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



Cable attributes		page 648	
OIL	OR-04	FLAME	FR-01
MOTION	CF-02	MECH.	MP-05

Complete the installation	
SKINTOP® strain relief page 492	SKINTOP® MS-SC page 522

ÖLFLEX® CONNECT solution	
ÖLFLEX® CONNECT CABLES page 605	

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

Technical data

Minimum bend radius: - for stationary use: 5 x cable diameter - for continuous flexing: 10 x cable diameter	Color code: - 3 conductors: 1: brown, 2: blue, 3: black - 4 conductors: 1: brown, 2: white, 3: blue, 4: black - 5 conductors: 1: brown, 2: white, 3: blue, 4: black 5: gray - 8 conductors: 1: white, 2: brown, 3: green, 4: yellow, 5: gray, 6: pink, 7: blue, 8: red
Temperature range: - for stationary use: -40°C to +80°C - for flexible use: -15°C to +80°C	Approvals: UL: AWM 20549 Additional: RoHS
Nominal voltage: 300V	

Part number	Number of conductors	Shielding	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread	SKINTOP® MS-SC PG thread
			in	mm				
24 AWG (0.25 mm²)								
7038868	8	unshielded	0.232	5.9	13	34	S2107	—
22 AWG (0.34 mm²)								
7038864	3	unshielded	0.181	4.6	7	20	S2107	—
7038865	4	unshielded	0.185	4.7	8	27	S2107	—
7038893	5	unshielded	0.177	4.5	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