

# OLFLEX-ROBOT® 900 P



# 22

## Robotic Cable for Continuous Twisting Motion

OLFLEX-ROBOT® 900 P is used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables, and other automated applications requiring twisting movement. The high-quality insulation with its smooth surface

and slide wrappings increases cable life expectancy under extreme twisting and bending stresses. The outer jacket of specially formulated polyurethane is highly resistant to abrasion, oil, notching, microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables.

W I R E S L I N E C O R D S & A C C

### Construction:

Finely stranded bare copper conductors; special elastomeric insulation; low friction core wrap; specially formulated black polyurethane jacket with matte finish.



### Technical Data:

Minimum bend radius for continuous flexing: 15 x cable diameter  
 Max. torsion (twist): +/- 360°/Meter  
 Temperature range: -30°C to +80°C  
 Flexing: -30°C to +80°C  
 Rated voltage: 300/500 V  
 Test voltage: 3000 V

Insulation resistance: 20 G x cm  
 Conductor stranding: Flexible fine wire  
 Color code: Black with white numbers, plus green/yellow  
 Nominal capacitance: Cond./cond. approx. 28 pF/Ft  
 Cond./shield approx. 50 pF/Ft

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
20 AWG (16/32) 0.50 mm <sup>2</sup>						16 AWG (30/30) 1.50 mm <sup>2</sup>					
28146	25	.524	13.3	170	254	28198	18	.622	15.8	295	446
18 AWG (24/32) 0.75 mm <sup>2</sup>						28200	25	.776	19.7	428	638
28160	4	.260	6.6	42	63	14 AWG (50/30) 2.50 mm <sup>2</sup>					
28164	14	.449	11.4	134	199	28181	3	.366	9.3	91	136
17 AWG (32/32) 1.00 mm <sup>2</sup>						28182	4	.398	10.1	115	171
28170	2	.244	6.2	32	47	12 AWG (50/28) 4 mm <sup>2</sup>					
28171	3	.256	6.5	41	61	28184	3	.484	12.3	152	226
28172	4	.283	7.2	51	76	8 AWG (80/26) 10 mm <sup>2</sup>					
28174	7	.366	9.3	88	131	28300	3	.720	18.3	347	517
28176	12	.453	11.5	145	216	6 AWG (128/26) 16 mm <sup>2</sup>					
*28185	18 (incl.1 pair)	.650	16.5	252	376	28400	3	.843	21.4	484	721
28178	18	.520	13.2	204	304	4 AWG (200/26) 25 mm <sup>2</sup>					
*28186	25 (incl.1 pair)	.681	17.3	315	470	28187	3	1.031	26.2	791	1178
28180	25	.646	16.4	291	433	2 AWG (280/26) 35 mm <sup>2</sup>					
28190	34	.744	18.9	379	565	28189	3	1.134	28.8	1046	1559
28191	41	.843	21.4	467	696						

\*includes one individually shielded pair