Torsional & Robotic Cable

ÖLFLEX[®] ROBOT 900 P/900 DP Robotic Cable for Flexing & Torsion Motion

Insulation: TPE; conductors twisted in layers with low-friction

LAPP KABEL STUTTGART ÖLFLEX® ROBOT 900 P

LAPP KABEL STUTTGART ÖLFLEX® ROBOT 900 DP

ÖLFLEX[®] ROBOT 900 P is a multi-conductor control and signal monitoring cable. It is designed to withstand the extreme demands of twisting and bending stresses in robotic applications. ÖLFLEX[®] ROBOT 900 DP has a tinned copper spiral shield and is designed for use where EMI emissions need to be suppressed.

Recommended Applications

Multi-axis articulated robots with twisting and bending motion; automated handling equipment; cable tracks or moving machine parts.

Approvals





Shielded Construction

Jacket: Polyurethane; black

Unshielded Construction

core wrap

Conductors: Finely stranded bare copper

Conductors: Finely stranded bare copper

Insulation: TPE; conductors twisted in layers with low-friction core wrap

Shielding: Tinned copper spiral shield

Jacket: Polyurethane; black

Application Advantage

- Designed for applications where combined twisting and bending occur
- Specially formulated PUR jacket protects against the harshest of industrial plant environments
- Maximum twist of ± 360°/m unshielded for wide variety of robot applications



K Minimum Bend Radius:		Test Voltage:	
- unshielded:	15 x cable diameter	- up to 22 AWG:	1500V
- shielded:	15 x cable diameter	- 20 AWG & larger:	3000V
دُلُّ Maximum Torsion (Twist):		Conductor Stranding:	Extra fine wire
- unshielded:	± 360°/m		
- shielded:	± 180°/m	Color Code:	
		- up to 22 AWG:	DIN 47100: Chart 8, page 674
👎 Temperature Range:		- 20 AWG & larger:	Black with white numbers,
- for flexible use:	-40°C to +80°C		plus green/yellow ground
7 Nominal Voltage:	300/500V	Approvals:	CE & RoHS
<u> </u>			Based on VDE 0281/0282 & 0812

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.



ÖLFLEX[®] Torsional & Robotic Cable

ÖLFLEX[®] ROBOT 900 P

Part Number	Number of Conductors (incl. ground)	Nomina Diam (in)		Copper Weight (Ibs/mft)	Approx. Weight (Ibs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nomina Diam (in)		Copper Weight (Ibs/mft)	Approx. Weight (Ibs/mft)	SKINTOP® Non-Metallic PG Thread	
24 AWG (0.25 mm²)							16 AWG (1.50 mm ²)							
0028110	7	0.244	6.2	11	32	S2107	0028198	18	0.622	15.8	174	300	S2121	
0028116	25	0.402	10.2	40	95	S2113	14 AWG (2.50	mm²)						
20 AWG (0.50	mm²)						0028181	3	0.366	9.3	48	91	S2111	
0028145	18	0.441	11.2	58	81	S2113	0028182	4	0.398	10.1	65	115	S2113	
0028146	25	0.524	13.3	81	171	S2116	6 AWG (10 mn	n²)						
19 AWG (0.75	mm²)						0028400	3	0.843	21.4	310	484	S2129	
0028160	4	0.260	6.6	19	42	S2109	4 AWG (25 mr	n²)						
0028164	14	0.441	11.2	68	134	S2113	0028187	3	1.031	26.2	484	791	S2136	
18 AWG (1.00	18 AWG (1.00 mm ²)							2 AWG (35 mm²)						
0028170*	2	0.244	6.2	13	32	S2107	0028189	3	1.134	28.8	677	1047	S2136	
0028171	3	0.256	6.5	19	41	S2109								
0028172	4	0.276	7.0	26	51	S2111								
0028174	7	0.366	9.3	45	88	S2111								
0028176	12	0.453	11.5	77	145	S2113								
0028185	16 + 1pr	0.630	16.0	131	253	S2121								
0028178	18	0.520	13.2	116	193	S2116								
0028186	23 + 1 pr	0.681	17.3	176	316	S2129								
0028180	25	0.646	16.4	161	291	S2121								
0028190	34	0.783	19.9	219	384	S2129								
0028191	41	0.878	22.3	264	474	S2129								

* 2c cable does not include ground.

ÖLFLEX® ROBOT 900 DP

Part Number	Number of Conductors (incl. ground)	Nomina Dian (in)	al Outer neter (mm)	Copper Weight (Ibs/mft)	Approx. Weight (Ibs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nomina Diarr (in)		Copper Weight (Ibs/mft)	Approx. Weight (Ibs/mft)	SKINTOP [®] MS-SC PG Thread
26 AWG (0.14 mm²) 22 AWG (0.34 mm²)													
0028100	12	0.264	6.7	29	46	53112210	0028135	4	0.224	5.7	14	31	53112210
0028105	3pr	0.244	6.2	11	30	53112210	0028136	5pr	0.358	9.1	43	77	53112220
24 AWG (0.25	24 AWG (0.25 mm ²) 16 AWG (1.50 mm ²)												
0028126	25	0.437	11.1	70	123	53112230	0028195	12	0.551	14.0	174	265	53112250



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