

# ÖLFLEX® 409 P

## Oil and Abrasion-Resistant Control Cable with PUR Jacket & UL/CSA AWM



ÖLFLEX® 409 P is a flexible control cable with a rugged, highly abrasion-resistant polyurethane jacket. It is UV-resistant and performs very well in mineral oils, cutting oils, and areas with high mechanical abuse. The innovative functional layer allows for easier stripping of the cable jacket compared to other PUR cables.

### Construction

- Conductors:** Finely stranded bare copper
- Insulation:** Specially formulated PVC
- Jacket:** Specially formulated polyurethane with gap-filling functional layer; black

### Recommended Applications

Machine tool equipment; handheld controls; any areas where the cable can be cut and damaged by sharp objects

### Approvals



### Application Advantage

- Rugged PUR jacket to resist cuts, nicks, and abrasion
- UL & CSA AWM approved
- Extremely oil and chemical resistant
- Able to be dragged on the floor with minimal damage
- Improved ease of jacket stripping compared to other PUR cables

Cable Attributes <span style="float: right;">page 640</span>				Complete the Installation			
OIL	OR-05	FLAME	FR-02	SKINTOP® Strain Relief	EPIC® Connectors		
MOTION	FL-01	MECH.	MP-05	page 488	page 280		

### Technical Data

<b>Minimum Bend Radius:</b>	- for installation: 4 x cable diameter	<b>Test Voltage:</b> 4000V
	- for flexible use: 12.5 x cable diameter	<b>Conductor Stranding:</b> Class 5 fine wire
<b>Temperature Range:</b>	- for stationary use: -40°C to +80°C	<b>Color Code:</b> Black with white numbers, plus green/yellow ground
	- for flexible use: -5°C to +80°C	<b>Approvals:</b> UL: AWM 20234
<b>Nominal Voltage:</b>	- UL/CSA: 1000V	Attributes: VW-1
	- U <sub>0</sub> /U: 300/500V	NFPA 79
		Canada: cRU AWM I/II AB FT1
		Additional: CE & RoHS

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>19 AWG (0.75 mm²)</b>						<b>16 AWG (1.5 mm²)</b>					
1311852*	2	0.272 6.9	10	41	S2111	1311305	5	0.374 9.5	48	101	S2111
1311103	3	0.283 7.2	15	48	S2111	1311307	7	0.402 10.2	68	126	S2113
1311104	4	0.303 7.7	19	56	S2111	1311312	12	0.512 13.0	116	211	S2116
1311105	5	0.327 8.3	24	67	S2111	1311318	18	0.591 15.0	174	296	S2121
1311107	7	0.35 8.9	34	82	S2111	1311325	25	0.677 17.2	242	401	S2121
1311110	10	0.425 10.8	48	121	S2113	<b>14 AWG (2.5 mm²)</b>					
1311112	12	0.437 11.1	58	133	S2113	1311403	3	0.374 9.5	48	101	S2111
1311118	18	0.504 12.8	87	185	S2116	1311404	4	0.402 10.2	65	124	S2113
1311125	25	0.571 14.5	121	245	S2121	1311405	5	0.437 11.1	81	151	S2113
<b>18 AWG (1.00 mm²)</b>						1311407	7	0.472 12.0	113	190	S2116
1311902*	2	0.283 7.2	13	46	S2111	1311412	12	0.61 15.5	194	323	S2121
1311203	3	0.295 7.5	19	54	S2111	<b>12 AWG (4 mm²)</b>					
1311204	4	0.315 8.0	26	65	S2111	1311504	4	0.465 11.8	103	179	S2116
1311205	5	0.343 8.7	32	79	S2111	1311505	5	0.508 12.9	129	218	S2116
1311207	7	0.366 9.3	45	95	S2111	<b>10 AWG (6 mm²)</b>					
1311210	10	0.449 11.4	65	142	S2113	1311604	4	0.516 13.1	155	241	S2116
1311212	12	0.461 11.7	77	157	S2116	1311605	5	0.563 14.3	194	294	S2121
1311218	18	0.531 13.5	116	220	S2121	<b>8 AWG (10 mm²)</b>					
1311225	25	0.606 15.4	161	294	S2121	1311704	4	0.65 16.5	258	393	S2121
<b>16 AWG (1.5 mm²)</b>						1311705	5	0.717 18.2	323	485	S2129
1311952*	2	0.307 7.8	19	58	S2111	<b>6 AWG (16 mm²)</b>					
1311303	3	0.323 8.2	29	70	S2111	1311804	4	0.752 19.1	413	579	S2129
1311304	4	0.346 8.8	39	85	S2111	1311805	5	0.87 22.1	516	744	S2129

\* 2c cable does not include ground