

ÖLFLEX® 490 P/490 CP

Highly Abrasion-Resistant Control Cable with PUR Jacket & UL/CSA AWM; Unshielded & Shielded



ÖLFLEX® 490 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. ÖLFLEX® 490 CP is the shielded version, with an overall foil tape with drain wire and tinned copper braid for EMI and RFI protection.

Recommended Applications

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

Approvals



Unshielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC

Jacket: Specially formulated gray polyurethane

Shielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC

Shielding: Overall foil tape wrap with drain wire; tinned copper braid (85% coverage)

Jacket: Specially formulated gray polyurethane

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
- Number-coded for easy wiring

Cable Attributes, see page 659

 OR-05	 FR-02	 FL-01	 MP-06
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® 590 P/590 CP
- ÖLFLEX® 190/190 CY

Complete the Installation



SKINTOP®
Strain Relief:
page 502



EPIC®
Connectors:
page 278

Technical Data



Minimum Bend Radius:

- for installation: 4 x cable diameter
- shielded: 6 x cable diameter



Temperature Range:

- for flexible use: -10°C to +80°C
- for stationary use: -20°C to +80°C



Nominal Voltage:

600V



Test Voltage:

2000V



Conductor Stranding:

Class 5 fine wire*



Color Code:

Black with white numbers,
plus green/yellow ground



Approvals:

UL: AWM 20234
Attributes: UL Oil Res I/II
Sunlight Resistant
NFPA 79 2012
Canada: CSA AWM I/II A/B FT1
Additional: CE & RoHS

* 18 AWG meets only the Class 5 cross section and DC resistance

ÖLFLEX® 490 P

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
20 AWG (0.50 mm²)						16 AWG (1.50 mm²)					
402002*	2	0.245 6.2	7	35	S 1107	401602*	2	0.295 7.5	20	53	S 1111
402003	3	0.256 6.5	10	40	S 1109	401603	3	0.310 7.9	29	64	S 1111
402004	4	0.274 7.0	13	46	S 1109	401604	4	0.333 8.5	39	77	S 1111
402005	5	0.293 7.4	17	53	S 1111	401605	5	0.360 9.1	48	90	S 1111
402007	7	0.313 8.0	23	66	S 1111	401607	7	0.388 9.9	68	115	S 1113
402009	9	0.355 9.0	30	82	S 1111	401609	9	0.446 11.3	88	141	S 1113
402012	12	0.401 10.2	38	106	S 1113	401612	12	0.496 12.6	117	179	S 1116
402018	18	0.459 11.7	59	139	S 1113	401618	18	0.574 14.6	175	253	S 1121
402025	25	0.534 13.6	79	176	S 1121	401625	25	0.654 16.6	242	335	S 1121
18 AWG (1.00 mm²)						14 AWG (2.50 mm²)					
401802*	2	0.269 6.8	13	44	S 1109	401402*	2	0.329 8.4	33	66	S 1111
401803	3	0.281 7.1	20	51	S 1111	401403	3	0.347 8.8	49	75	S 1111
401804	4	0.303 7.7	26	64	S 1111	401404	4	0.374 9.5	65	108	S 1111
401805	5	0.325 8.3	31	75	S 1111	401405	5	0.406 10.3	81	121	S 1113
401807	7	0.349 8.9	46	93	S 1111	401407	7	0.439 11.2	113	170	S 1113
401809	9	0.399 10.1	59	119	S 1113	401409	9	0.507 12.9	146	194	S 1116
401812	12	0.451 11.5	79	143	S 1113	401412	12	0.567 14.4	194	238	S 1121
401818	18	0.519 13.2	118	203	S 1116	401418	18	0.659 16.7	290	357	S 1121
401825	25	0.607 15.4	164	264	S 1121	401425	25	0.754 19.2	404	474	S 1129

* 2c cable does not include ground.

ÖLFLEX® 490 CP

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
20 AWG (0.50 mm²)						16 AWG (1.50 mm²)					
402002CP*	2	0.270 6.9	19	46	53112210	401602CP*	2	0.320 8.1	43	73	53112220
402003CP	3	0.281 7.1	24	55	53112220	401603CP	3	0.335 8.5	50	82	53112220
402004CP	4	0.299 7.6	27	66	53112220	401604CP	4	0.358 9.1	60	97	53112220
402005CP	5	0.318 8.1	33	73	53112220	401605CP	5	0.385 9.8	76	112	53112230
402007CP	7	0.338 8.6	40	84	53112220	401607CP	7	0.413 10.5	98	137	53112230
402009CP	9	0.380 9.7	53	104	53112230	401609CP	9	0.477 12.1	122	170	53112240
402012CP	12	0.426 10.8	69	117	53112230	401612CP	12	0.527 13.4	156	216	53112240
402018CP	18	0.490 12.4	90	163	53112240	401618CP	18	0.605 15.4	231	295	53112250
402025CP	25	0.565 14.4	119	214	53112250	401625CP	25	0.685 17.4	307	384	53112260
18 AWG (1.00 mm²)						14 AWG (2.50 mm²)					
401802CP*	2	0.294 7.5	28	62	53112220	401402CP*	2	0.354 9.0	56	84	53112220
401803CP	3	0.306 7.8	35	71	53112220	401403CP	3	0.372 9.4	76	101	53112230
401804CP	4	0.328 8.3	44	82	53112220	401404CP	4	0.399 10.1	96	123	53112230
401805CP	5	0.350 8.9	51	95	53112220	401405CP	5	0.431 10.9	116	145	53112230
401807CP	7	0.374 9.5	70	117	53112230	401407CP	7	0.470 11.9	149	183	53112240
401809CP	9	0.424 10.8	89	139	53112230	401409CP	9	0.538 13.7	188	225	53112250
401812CP	12	0.473 12.0	110	176	53112240	401412CP	12	0.598 15.2	242	287	53112250
401818CP	18	0.540 13.7	155	240	53112250	401418CP	18	0.690 17.5	359	390	53112260
401825CP	25	0.609 15.5	218	311	53112250	401425CP	25	0.785 19.9	479	558	53112260

* 2c cable does not include ground.

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® Section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.