

ÖLFLEX® 590 P/590 CP

Heavy Duty, LSLH, Indoor/Outdoor Flexible Cable with PUR Jacket; Unshielded & Shielded



ÖLFLEX® 590 P is a color-coded, flexible power and control cable with a rugged, highly abrasion-resistant yellow polyurethane jacket. It is UV-resistant and performs very well in cold-temperature indoor and outdoor applications. ÖLFLEX® 590 CP is the shielded version, with an overall foil tape, drain wire, and tinned copper braid for EMI and RFI protection.

Unshielded Construction

Conductors: Finely stranded tinned copper

Insulation: TPE

Jacket: Polyurethane; yellow

Shielded Construction

Conductors: Finely stranded tinned copper

Insulation: TPE

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

Jacket: Polyurethane; yellow

Recommended Applications

Portable hand tools; utility & forestry trucks & equipment; cold temperature applications; areas where the cable can be cut or damaged by sharp objects

Approvals



Application Advantage

- Rugged PUR jacket resists cuts, nicks & abrasions
- TPE insulation for superior cold-temperature flexibility
- Safety colored yellow jacket
- Good for damp environments
- UL & CSA AWM approval

Cable Attributes		page 640	
OIL	OR-05	FLAME	FR-02
MOTION	FL-01	MECH.	MP-06

Complete the Installation	
SKINTOP® Strain Relief	page 488
EPIC® Connectors	page 280

Technical Data

Minimum Bend Radius:
 - for installation: 5 x cable diameter
 - shielded: 8 x cable diameter

Temperature Range:
 - for flexible use: -50°C to +80°C

Nominal Voltage: 600V

Test Voltage: 2000V

Conductor Stranding: Class 5 fine wire*
 * 18 AWG meets only the Class 5 cross section and DC resistance

Color Code: Color-coded per Chart 1, page 672 (#4 conductor is green/yellow)

Approvals:
 UL: AWM 20234
 Attributes: Oil Res I/II
 Sunlight Resistant
 NFPA 79
 Canada: CSA AWM I/II A/B FT 1
 Additional: CE & RoHS

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® 590 P

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
501802*	2	0.293	7.4	13	44	S2111	501403	3	0.360	9.1	43	82	S2111
501803	3	0.308	7.8	19	51	S2111	501404	4	0.389	9.9	57	101	S2113
501804	4	0.332	8.4	25	64	S2111	501405	5	0.422	10.7	72	123	S2113
501805	5	0.357	9.1	31	77	S2111	12 AWG (4 mm²)						
501807	7	0.390	9.9	44	95	S2113	501203	3	0.399	10.1	72	117	S2113
16 AWG (1.50 mm²)							10 AWG (6 mm²)						
501602*	2	0.315	8.0	18	51	S2111	501204	4	0.447	11.4	96	145	S2113
501603	3	0.331	8.4	26	64	S2111	501003	3	0.485	12.3	105	161	S2116
501604	4	0.357	9.1	39	77	S2111	501004	4	0.532	13.5	139	205	S2121
501605	5	0.387	9.8	44	90	S2113							
501607	7	0.418	10.6	62	115	S2113							

* 2c cable does not include ground

ÖLFLEX® 590 CP

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
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
501803CP	3	0.330	8.4	34	73	53112220	501403CP	3	0.391	9.9	71	108	53112230
501804CP	4	0.354	9.0	41	84	53112220	501404CP	4	0.420	10.7	88	130	53112230
501805CP	5	0.379	9.6	50	99	53112230	501405CP	5	0.458	11.6	103	161	53112240
16 AWG (1.50 mm²)							12 AWG (4 mm²)						
501602CP*	2	0.346	8.8	37	73	53112220	501203CP	3	0.442	11.2	109	156	53112240
501603CP	3	0.362	9.2	46	86	53112220	501204CP	4	0.479	12.2	136	190	53112240
501604CP	4	0.388	9.9	56	99	53112230	501205CP	5	0.518	13.2	160	231	53112240
501605CP	5	0.418	10.6	67	117	53112230	10 AWG (6 mm²)						
							501003CP	3	0.521	13.2	147	216	53112240
							501004CP	4	0.564	14.3	184	262	53112250
							501005CP	5	0.635	16.1	222	315	53112250

* 2c cable does not include ground

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. For current information go to our website.