

# ÖLFLEX® 590 P/590 CP

Flexible heavy duty, LSLH, indoor/outdoor cable with PUR jacket



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.

## 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



Cable attributes		page 648	
OIL	OR-05	FLAME	FR-02
MOTION	FL-01	MECH.	MP-06

## Unshielded construction

Conductors: finely stranded tinned copper

Insulation: TPE

Jacket: polyurethane; yellow

## Shielded construction

Conductors: finely stranded tinned copper

Insulation: TPE

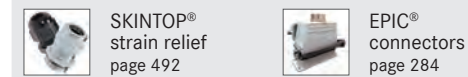
Shielding: overall foil tape with drain wire; tinned copper braid (85% coverage)

Jacket: specially formulated polyurethane; yellow

## 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

## Complete the installation



## Technical data

<b>Minimum bend radius:</b> - for installation: 5 x cable diameter - shielded: 8 x cable diameter	<b>Color code:</b> chart 1, page 680 (#4 conductor is green/yellow)
<b>Temperature range:</b> - for flexible use: -50°C to +80°C	<b>Approvals:</b> UL: AWM 20234 Attributes: Oil Res I/II sunlight resistant NFPA 79 Canada: CSA AWM I/II A/B FT1 Additional: CE & RoHS
<b>Nominal voltage:</b> 600V	
<b>Test voltage:</b> 2000V	
<b>Conductor stranding:</b> Class 5 fine wire* * 18 AWG meets only the Class 5 cross section and DC resistance	

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.

ÖLFLEX® 590 P

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
<b>18 AWG (1 mm²)</b>						
501802	2	0.293	7.4	13	44	S2111
501803	3	0.308	7.8	19	51	S2111
501804	4	0.332	8.4	25	64	S2111
501805	5	0.357	9.1	31	77	S2111
501807	7	0.390	9.9	44	95	S2113
<b>16 AWG (1.5 mm²)</b>						
501602	2	0.315	8.0	18	51	S2111
501603	3	0.331	8.4	26	64	S2111
501604	4	0.357	9.1	39	77	S2111
501605	5	0.387	9.8	44	90	S2113
501607	7	0.418	10.6	62	115	S2113

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
<b>14 AWG (2.5 mm²)</b>						
501403	3	0.360	9.1	43	82	S2111
501404	4	0.389	9.9	57	101	S2113
501405	5	0.422	10.7	72	123	S2113
<b>12 AWG (4 mm²)</b>						
501203	3	0.399	10.1	72	117	S2113
501204	4	0.447	11.4	96	145	S2113
<b>10 AWG (6 mm²)</b>						
501003	3	0.485	12.3	105	161	S2116
501004	4	0.532	13.5	139	205	S2121

ÖLFLEX® 590 CP

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
<b>18 AWG (1 mm²)</b>						
501803CP	3	0.330	8.4	34	73	53112220
501804CP	4	0.354	9.0	41	84	53112220
501805CP	5	0.379	9.6	50	99	53112230
<b>16 AWG (1.5 mm²)</b>						
501602CP	2	0.346	8.8	37	73	53112220
501603CP	3	0.362	9.2	46	86	53112220
501604CP	4	0.388	9.9	56	99	53112230
501605CP	5	0.418	10.6	67	117	53112230
<b>14 AWG (2.5 mm²)</b>						
501403CP	3	0.391	9.9	71	108	53112230
501404CP	4	0.420	10.7	88	130	53112230
501405CP	5	0.458	11.6	103	161	53112240

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
<b>12 AWG (4 mm²)</b>						
501203CP	3	0.442	11.2	109	156	53112240
501204CP	4	0.479	12.2	136	190	53112240
501205CP	5	0.518	13.2	160	231	53112240
<b>10 AWG (6 mm²)</b>						
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



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