

OLFLEX® 590 P/ 590 CP

Heavy Duty, Low Halogen, Indoor/Outdoor Flexible Control Cable



OLFLEX® 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. OLFLEX® 590 CP is the shielded version with an overall foil tape with drain wire and tinned copper braid for EMI & RFI protection.

Recommended Applications:

Portable hand tools, Utility and Forestry trucks & equipment, Cold climate/temperature applications and any areas where the cable can be cut and damaged by sharp objects.

Application Advantage:

- Rugged PUR jacket to resist cuts, nicks and abrasion
- TPE insulation for superior cold temperature flexibility
- Safety colored yellow jacket
- Good for wet & dry areas
- UL & CSA AWM approved

OLFLEX® 590 P Construction:

Finely stranded tinned copper conductors; TPE insulation; conductors cabled with non-wicking fillers; overall tape wrap; yellow polyurethane jacket.



OLFLEX® 590 CP Construction:

Finely stranded tinned copper conductors; TPE insulation; conductors cabled with non-wicking fillers; overall foil tape shield with drain wire; tinned copper braid (85% coverage); yellow polyurethane jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-05 Motion Type: FL-01 Flame Resistance: FR-02 Mechanical Properties: MP-05		Availability: Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	Complete the installation with: SKINTOP® Strain Relief: Page 486 OLFLEX® Tubing: Page 546 EPIC® Connectors: Page 251 SKINTOP® MS-SC Page 486
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Technical Data:

Minimum Bending Radius - for flexible use: 5 x cable diameter - shielded: 8 x cable diameter	Test Voltage: 3000V
Temperature Range: for flexible use and stationary applications: -50°C to +80°C	Conductor Stranding: Fine wire
Nominal Voltage: 600V	Color Code: Chart 1, Page 671 Approvals: UL: AWM CSA: AWM FT1

OLFLEX® 590 P/ 590 CP

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OLFLEX® 590 P: Heavy Duty, Low Halogen, Indoor/ Outdoor Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							12 AWG (65/30) 4 mm ²						
501802	2	.293	7.4	13	43	64	501203	3	.399	10.1	50	116	173
501803	3	.308	7.8	19	50	74	501204	4	.447	11.3	100	146	218
501804	4	.332	8.4	25	64	95	501205	5	.487	12.4	125	178	265
501805	5	.357	9.1	31	77	115	10 AWG (105/30) 6 mm ²						
501807	7	.390	9.9	44	95	142	501003	3	.485	12.3	110	161	240
16 AWG (26/30) 1.50 mm ²							501004	4	.532	13.5	147	205	305
501602	2	.315	8.0	18	50	75	501005	5	.579	14.7	184	252	375
501603	3	.331	8.4	27	63	94							
501604	4	.357	9.1	36	77	115							
501605	5	.387	9.8	45	90	134							
501607	7	.418	10.6	64	116	172							
14 AWG (41/30) 2.50 mm ²													
501402	2	.341	8.7	30	64	95							
501403	3	.360	9.1	45	82	122							
501404	4	.389	9.9	60	101	150							
501405	5	.422	10.7	75	123	183							
501407	7	.457	11.6	105	156	232							

OLFLEX® 590 CP: Shielded Heavy Duty, Low Halogen, Indoor/ Outdoor Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							12 AWG (65/30) 4 mm ²						
501802CP	2	.315	8.0	26	62	92	501203CP	3	.442	11.2	115	156	232
501803CP	3	.330	8.4	34	72	107	501204CP	4	.479	12.2	146	189	282
501804CP	4	.354	9.0	46	84	125	501205CP	5	.518	13.2	172	231	344
501805CP	5	.379	9.6	54	99	148	10 AWG (105/30) 6 mm ²						
501807CP	7	.412	10.5	68	118	176	501003CP	3	.521	13.2	155	215	320
16 AWG (26/30) 1.50 mm ²							501004CP	4	.564	14.3	196	262	390
501602CP	2	.346	8.8	36	72	107	501005CP	5	.635	16.1	238	315	469
501603CP	3	.362	9.2	48	86	128							
501604CP	4	.388	9.9	61	100	149							
501605CP	5	.418	10.6	70	117	174							
501607CP	7	.449	11.4	91	149	222							
14 AWG (41/30) 2.50 mm ²													
501402CP	2	.372	9.4	52	90	134							
501403CP	3	.391	9.9	69	109	162							
501404CP	4	.420	10.7	86	130	194							
501405CP	5	.458	11.6	106	160	238							
501407CP	7	.493	12.5	136	196	291							