


### 26 Quick select chart

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Extremely oil-resistant flexible control cable with UL TC & UL/CSA AWM
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- 34 **ÖLFLEX® 409 P**   
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- 36 **ÖLFLEX® 490 P/490 CP**  
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- 41 **ÖLFLEX® CLASSIC 100/100 CY**  
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Flexible color-coded power & control cable with steel braid
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Flexible number-coded power & control cable
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Flexible number-coded power & control cable with steel braid

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- 47 **ÖLFLEX® CLASSIC 110 H/110 CH**  
Oil-resistant, low smoke, zero halogen control cable
- 49 **ÖLFLEX® CLASSIC 130 H BK/135 CH BK**  
Low smoke, zero halogen control cable

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## Quick select chart

Product name	Construction			AWG range	Conductor count
	shielding	insulation	jacket		
<b>UL/CSA PVC cable</b>					
ÖLFLEX® 190	no	PVC	thermoplastic polymer	20 - 2 AWG	2, 3, 4, 5, 7, 9, 12, 18, 25, 34, 41, 50
ÖLFLEX® 190 CY	yes				
ÖLFLEX® 150	no	PVC	PVC	20 - 14 AWG	3, 4, 5, 7, 12, 18, 25
ÖLFLEX® 150 CY	yes			18 - 14 AWG	3, 4, 5, 7
ÖLFLEX® CONTROL TM	no	PVC/nylon	thermoplastic polymer	18 - 10 AWG	3, 4, 5, 7, 9, 12, 18, 19, 25
ÖLFLEX® CONTROL TM CY	yes				
<b>UL/CSA PUR cable</b>					
ÖLFLEX® 409 P	no	PVC	PUR	19 - 6 AWG	2, 3, 4, 5, 7, 10, 12, 18, 25
ÖLFLEX® 490 P	no	PVC	PUR	20 - 14 AWG	2, 3, 4, 5, 7, 9, 12, 18, 25
ÖLFLEX® 490 CP	yes				
ÖLFLEX® 590 P	no	TPE	PUR	18 - 10 AWG	2, 3, 4, 5, 7
ÖLFLEX® 590 CP	yes				2, 3, 4, 5
ÖLFLEX® POWER MULTI	no	PVC	thermoplastic polymer	18 - 8 AWG	3, 4, 5, 7, 12, 18, 25
<b>European PVC cable</b>					
ÖLFLEX® CLASSIC 100	no	PVC	PVC	20 AWG - 350 KCMIL	2, 3, 4, 5
ÖLFLEX® CLASSIC 100 CY	yes				
ÖLFLEX® CLASSIC 100 SY	yes (steel)	PVC	PVC	18 - 2 AWG	2, 3, 4, 5
ÖLFLEX® CLASSIC 110	no	PVC	PVC	20 - 2 AWG	2, 3, 4, 5, 7, 12, 18, 25, 34, 41, 50, 52, 65, 80, 100
ÖLFLEX® CLASSIC 110 CY	yes			20 - 6 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 110 SY	yes (steel)	PVC	PVC	20 - 6 AWG	2, 3, 4, 5, 7, 12, 18, 25
<b>Halogen-free cable</b>					
ÖLFLEX® CLASSIC 110 H	no	halogen-free	halogen-free	20 - 2 AWG	3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 110 CH	yes				
ÖLFLEX® CLASSIC 130 H BK	no	halogen-free	halogen-free	20 - 4 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 135 CH BK	yes			20 - 2 AWG	

Nominal voltage	Temperature range		Approvals	Cable attributes, see page 648			Page
	low	high		oil resistance	flame resistance	mechanical properties	
600V	-40°C	90°C		OR-04	FR-03	MP-02	28
600V	-40°C	90°C		OR-04	FR-02	MP-02	30
1000V	-40°C	90°C		OR-03	FR-03	MP-03	32
1000V	-40°C	80°C		OR-05	FR-02	MP-05	34
600V	-20°C	80°C		OR-05	FR-02	MP-05	36
600V	-50°C	80°C		OR-05	FR-02	MP-05	38
1000V	-40°C	90°C		OR-03	FR-03	MP-03	40
500 - 750V	-40°C	80°C		OR-01	FR-02	MP-01	41
500 - 750V	-40°C	80°C		OR-01	FR-02	MP-01	43
500V	-40°C	80°C		OR-01	FR-02	MP-01	44
500V	-40°C	80°C		OR-01	FR-02	MP-01	46
600V	-40°C	75°C		OR-03	FR-04	MP-01	47
1000V	-40°C	75°C		OR-01	FR-04	MP-01	49

# ÖLFLEX® 190/190 CY

Extremely oil-resistant flexible control cable with UL TC & UL/CSA AWM



ÖLFLEX® 190 is a multi-conductor cable with a highly oil-, coolant-, and solvent-resistant thermoplastic polymer jacket for control and power applications in an industrial environment. It is designed for use in all electrical equipment under dry, damp, and wet conditions. ÖLFLEX® 190 is also UL TC approved so it can be routed in tray as well. ÖLFLEX® 190 CY is a shielded version for EMI and RFI protection.

## Recommended applications

CNC machining centers; grinding machines; bottling equipment; conveyors; processing equipment; assembly lines; control panels

## Approvals



Cable attributes		page 648	
OIL	OR-04	FLAME	FR-03
MOTION	WT-02	MECH.	MP-03

## Unshielded construction

**Conductors:** finely stranded bare copper

**Insulation:** specially formulated PVC

**Jacket:** specially formulated thermoplastic polymer; gray

## Shielded construction

**Conductors:** finely stranded bare copper

**Insulation:** specially formulated PVC

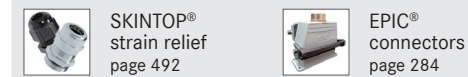
**Shielding:** PVC inner jacket; tinned copper braid (85% coverage)

**Jacket:** specially formulated thermoplastic polymer; gray

## Application advantage

- Extremely oil-resistant (Oil Res I & II)
- Meets NFPA 79 machinery wiring standard
- Very flexible and number-coded for easy routing and termination
- Round jacket for optimal seal with a SKINTOP® strain relief cable gland
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

## Complete the installation



## Technical data

<p> <b>Minimum bend radius:</b>                  - for installation: 4 x cable diameter                  - shielded: 6 x cable diameter</p> <p> <b>Temperature range:</b>                  - UL TC: -25°C to +90°C                  - for stationary use: -40°C to +105°C                  - for flexible use: -25°C to +90°C</p> <p> <b>Nominal voltage:</b>                  - UL PLTC: 300V                  - UL TC: 600V                  - UL WTTC: 1000V                  - UL/CSA AWM: 1000V</p> <p> <b>Test voltage:</b> 2000V</p> <p> <b>Conductor stranding:</b>                  - 20 - 6 AWG: Class 5 fine wire*                  - 4 AWG and larger: Class K fine wire                  * 20 &amp; 18 AWG meet only Class 5 cross section and DC resistance</p>	<p> <b>Color code:</b> black with white numbers, plus green/yellow ground</p> <p> <b>Approvals:</b></p> <p>UL: TC-ER per UL 1277                  WTTC per UL 2277                  PLTC-ER per UL 13 (20 AWG)                  AWM 2587 &amp; 21098 (Oil)</p> <p>Attributes: UL Oil Res I/II                  90°C wet; 90°C dry                  sunlight resistant                  direct burial                  NFPA 79</p> <p>NEC: Class 1 Division 2 per NEC Article 501</p> <p>Canada: CSA AWM I/II A/B FT4                  CSA C22.2 210.2</p> <p>Additional: torsion rated for wind market                  (± 90°/m) &amp; (± 150°/m) (18 - 2 AWG)                  CE &amp; RoHS</p>
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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® 190

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>20 AWG (0.5 mm²)</b>						
602002**	2	0.253	6.4	7	40	S1109
602003	3	0.265	6.7	10	42	S1109
602004	4	0.285	7.2	13	51	S1111
602005	5	0.308	7.8	17	60	S1111
602007	7	0.331	8.4	23	82	S1111
602009	9	0.409	10.4	30	100	S1113
602012	12	0.421	10.7	39	168	S1113
602018	18	0.487	12.4	59	198	S1116
602025	25	0.586	14.9	82	242	S1121
<b>18 AWG (1 mm²)</b>						
601802**	2	0.277	7.0	13	42	S1111
601803	3	0.291	7.4	20	44	S1111
601804	4	0.314	8.0	26	55	S1111
601805	5	0.340	8.6	33	64	S1111
601807	7	0.367	9.3	46	84	S1111
601809	9	0.454	11.5	59	119	S1113
601812	12	0.471	12.0	79	141	S1116
601818	18	0.579	14.7	118	207	S1121
601825	25	0.656	16.7	164	278	S1121
601834	34	0.761	19.3	206	575	S1129
601841	41	0.873	22.2	250	680	S1129
601850	50	0.927	23.5	305	825	S1129
<b>16 AWG (1.5 mm²)</b>						
601602**	2	0.303	7.7	20	57	S1111
601603	3	0.319	8.1	29	62	S1111
601604	4	0.345	8.8	39	75	S1111
601605	5	0.375	9.5	49	90	S1111
601607	7	0.406	10.3	68	121	S1113
601609	9	0.509	12.9	88	174	S1116
601612	12	0.557	14.1	112	209	S1121
601618	18	0.644	16.4	175	298	S1121
601625	25	0.733	18.6	242	417	S1129
601634	34	0.892	22.7	296	760	S1129
601641	41	0.974	24.7	357	875	S1236
601650	50	1.036	26.3	437	1020	S1136
601661	61	1.098	27.9	530	1180	S1136

\* 2c cable does not include ground

\*\* Part numbers are not -ER rated

ÖLFLEX® 190 CY

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>20 AWG (0.5 mm²)</b>						
602002CY**	2	0.329	8.4	25	66	53112220
602003CY	3	0.341	8.7	30	82	53112220
602004CY	4	0.361	9.2	35	88	53112220
602005CY	5	0.384	9.8	41	99	53112230
602007CY	7	0.407	10.3	51	112	53112230
602012CY	12	0.497	12.6	73	181	53112240
602025CY	25	0.678	17.2	139	295	53112260
<b>18 AWG (1 mm²)</b>						
601802CY**	2	0.353	9.0	28	75	53112220
601803CY	3	0.367	9.3	40	82	53112230
601804CY	4	0.390	9.9	48	106	53112230
601805CY	5	0.416	10.6	57	123	53112230
601807CY	7	0.443	11.3	94	139	53112240
601812CY	12	0.586	14.9	153	229	53112250
601818CY	18	0.678	17.2	216	317	53112260
601825CY	25	0.764	19.4	226	436	53112260
<b>16 AWG (1.5 mm²)</b>						
601603CY	3	0.395	10.0	52	115	53112230
601604CY	4	0.421	10.7	66	128	53112230
601605CY	5	0.451	11.5	76	150	53112240
601607CY	7	0.482	12.2	98	181	53112240
601612CY	12	0.656	16.7	167	311	53112250
601618CY	18	0.743	18.9	235	456	53112260
601625CY	25	0.888	22.6	313	639	53112260

\* 2c cable does not include ground

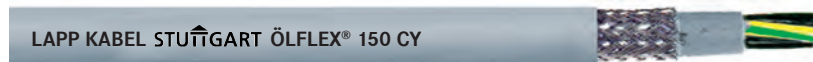
\*\* Part numbers are not -ER rated

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.

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>						
601402**	2	0.337	8.6	33	88	S1111
601403	3	0.356	9.0	49	93	S1111
601404	4	0.386	9.8	65	121	S1113
601405	5	0.421	10.7	81	145	S1113
601407	7	0.457	11.6	113	192	S1113
601409	9	0.609	15.5	145	317	S1121
601412	12	0.628	16.0	194	401	S1121
601418	18	0.729	18.5	290	575	S1129
601425	25	0.872	22.1	404	860	S1129
<b>12 AWG (4 mm²)</b>						
601203	3	0.417	10.6	78	156	S1113
601204	4	0.454	11.5	104	198	S1113
601205	5	0.497	12.6	129	238	S1116
601207	7	0.573	14.6	181	363	S1121
601211	11	0.745	18.9	284	397	S1129
<b>10 AWG (6 mm²)</b>						
601003	3	0.466	11.8	116	223	S1116
601004	4	0.509	12.9	155	267	S1121
601005	5	0.590	15.0	194	322	S1121
<b>8 AWG (10 mm²)</b>						
600804	4	0.664	16.9	258	436	S1129
600805	5	0.728	18.5	323	525	S1129
<b>6 AWG (16 mm²)</b>						
600604	4	0.870	22.1	413	699	S1129
600605	5	0.955	24.3	516	842	S1129
<b>4 AWG (21 mm²)</b>						
600404	4	1.005	25.5	515	950	S1136
600405	5	1.105	28.1	645	1200	S1136
<b>2 AWG (33.7 mm²)</b>						
600204	4	1.178	29.9	876	1405	S1136
600205	5	1.300	33.0	1129	1752	S1248

# ÖLFLEX® 150/150 CY

Oil-resistant flexible control cable with <HAR> approval



ÖLFLEX® 150 is an internationally approved, 600V multi-conductor cable. It has UL & CSA AWM and <HAR> approvals for use as an interconnect cable for machinery. ÖLFLEX® 150 is extremely flexible for easier installation and has outstanding oil, coolant, and chemical resistance. ÖLFLEX® 150 CY is a shielded version with an inner PVC jacket and tinned copper braid shield.

## Recommended applications

Control and power on industrial machinery; food & beverage; processing & pharmaceutical equipment; machinery for export to Europe

## Approvals



Cable attributes		page 648	
OIL	OR-04	FLAME	FR-02
MOTION	FL-01	MECH.	MP-02

## Unshielded construction

Conductors: finely stranded bare copper

Insulation: PVC

Jacket: specially formulated PVC; gray

## Shielded construction

Conductors: finely stranded bare copper

Insulation: PVC

Shielding: PVC inner jacket; tinned copper braid (85% coverage)

Jacket: specially formulated PVC; gray

## Application advantage

- Industrial grade PVC jacket (Oil Res I & II)
- International approvals: UL, CSA, <HAR>
- Very flexible pressure-extruded jacket for easy installation
- Number-coded conductors for easy identification & wiring

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

## Technical data

<b>Minimum bend radius:</b> - for installation: 4 x cable diameter - shielded: 6 x cable diameter	<b>Test voltage:</b> 3000V
<b>Temperature range:</b> - for stationary use: - UL/CSA: -40°C to +90°C - <HAR>: -40°C to +70°C - for flexible use: - UL/CSA: -5°C to +90°C - <HAR>: -5°C to +70°C	<b>Conductor stranding:</b> Class 5 fine wire
<b>Nominal voltage:</b> - UL/CSA: 600V - <HAR>: 300/500V	<b>Color code:</b> black with white numbers, plus green/yellow ground
	<b>Approvals:</b> UL: AWM 2587 & 21098 (Oil) Attributes: UL Oil Res I/II NFPA 79 Canada: CSA AWM I/II A/B FT1 Additional: <HAR> H05VV5-F (non-shielded) <HAR> H05VVC4V5-K (shielded) 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.

ÖLFLEX® 150

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>20 AWG (0.5 mm<sup>2</sup>)</b>						
0015003	3	0.244	6.2	10	42	S1107
0015004	4	0.268	6.8	13	46	S1109
0015005	5	0.291	7.4	17	59	S1111
0015007	7	0.354	9.0	23	80	S1111
0015012	12	0.437	11.1	39	133	S1113
0015018	18	0.520	13.2	58	220	S1116
0015025	25	0.630	16.0	81	256	S1121
<b>19 AWG (0.75 mm<sup>2</sup>)</b>						
0015103	3	0.264	6.7	15	51	S1109
0015104	4	0.283	7.2	20	56	S1111
0015105	5	0.319	8.1	25	76	S1111
0015107	7	0.390	9.9	34	97	S1113
0015112	12	0.472	12.0	58	165	S1116
0015118	18	0.567	14.4	87	22	S1121
0015125	25	0.673	17.1	121	313	S1121
<b>18 AWG (1 mm<sup>2</sup>)</b>						
0015203	3	0.276	7.0	20	53	S1111
0015204	4	0.307	7.8	26	67	S1111
0015205	5	0.339	8.6	33	89	S1111
0015207	7	0.409	10.4	46	114	S1113
0015212	12	0.504	12.8	78	192	S1116
0015218	18	0.594	15.1	117	272	S1121
0015225	25	0.709	18.0	162	383	S1129

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>16 AWG (1.5 mm<sup>2</sup>)</b>						
0015303	3	0.327	8.3	29	74	S1111
0015304	4	0.354	9.0	39	97	S1111
0015305	5	0.398	10.1	49	113	S1113
0015307	7	0.492	12.5	68	151	S1116
0015312	12	0.594	15.1	117	243	S1121
0015318	18	0.709	18.0	175	348	S1129
0015325	25	0.843	21.4	242	491	S1129
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
0015403	3	0.390	9.9	49	114	S1113
0015404	4	0.425	10.8	65	141	S1113
0015405	5	0.476	12.1	81	173	S1116
0015407	7	0.579	14.7	113	229	S1121
0015412	12	0.705	17.9	194	390	S1129
0015418	18	0.850	21.6	291	571	S1129
0015425	25	1.008	25.6	404	784	S1136

ÖLFLEX® 150 CY

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 mm<sup>2</sup>)</b>						
0015703	3	0.370	9.4	52	97	53112230
0015704	4	0.394	10.0	54	121	53112230
0015705	5	0.433	11.0	64	136	53112230
0015707	7	0.512	13.0	80	183	53112240
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
0015803	3	0.413	10.5	57	107	53112230
0015804	4	0.449	11.4	64	142	53112240
0015805	5	0.500	12.7	82	162	53112240
0015807	7	0.594	15.1	97	205	53112250

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>14 AWG (2.5 mm<sup>2</sup>)</b>						
0015903	3	0.469	11.9	81	164	53112240
0015904	4	0.520	13.2	115	198	53112240
0015905	5	0.579	14.7	138	245	53112250
0015907	7	0.689	17.5	162	322	53112260

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.

# ÖLFLEX® CONTROL TM/TM CY

Extremely oil-resistant flexible control cable with UL MTW & UL/CSA TC



ÖLFLEX® CONTROL TM is a multi-conductor cable designed for use on machine tool equipment and other industrial machinery conforming to NFPA 79 wiring norms. ÖLFLEX® CONTROL TM is also UL/CSA TC approved so it can be routed in tray as well. ÖLFLEX® CONTROL TM CY has foil tape and a tinned copper braid shield for improved effectiveness against noise and interference.

### Recommended applications

Machine tool machinery; food & beverage; processing equipment; machine wiring for conformance to NFPA 79

### Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	WT-02	MECH.	MP-03

### Unshielded construction

- Conductors: finely stranded bare copper
- Insulation: specially formulated PVC/nylon
- Jacket: specially formulated thermoplastic polymer; gray

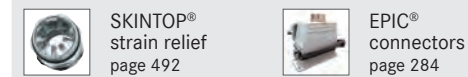
### Shielded construction

- Conductors: finely stranded bare copper
- Insulation: specially formulated PVC/nylon
- Shielding: foil tape; tinned copper braid (85% coverage)
- Jacket: specially formulated thermoplastic polymer; gray

### Application advantage

- Conforms to NFPA 79 standards for wiring machinery
- Gray jacket and number-coded for easy connection
- UL TC-ER approval so it can be installed off the machine and into an overhead tray without conduit
- Flexible copper stranding and pressure-extruded jacket, improved shielding effectiveness

### Complete the installation



### Technical data

<p> <b>Minimum bend radius:</b>                  - for installation: 4 x cable diameter                  - shielded: 6 x cable diameter</p> <p> <b>Temperature range:</b>                  - UL/CSA TC: -25°C to +90°C                  - for stationary use: -40°C to +105°C                  - for flexible use: -25°C to +90°C</p> <p> <b>Nominal voltage:</b>                  - UL/CSA TC: 600V                  - UL WTTC: 1000V</p> <p> <b>Test voltage:</b> 2000V</p> <p> <b>Conductor stranding:</b> Class 5 fine wire*                  * 18 AWG meets only Class 5 cross section and DC resistance</p> <p> <b>Color code:</b> black with white numbers, plus green/yellow ground</p>	<p> <b>Approvals:</b></p> <p>UL: TC-ER per UL 1277                  MTW per UL 1063                  WTTC per UL 2277                  bus drop cable                  (14 AWG &amp; larger; 3c &amp; 4c only)                  AWM 20886 &amp; 21098 (Oil)</p> <p>Attributes: UL Oil Res I/II                  75°C wet; 90°C dry                  sunlight resistant                  direct burial                  NFPA 79</p> <p>NEC: Class 1 Division 2 per NEC Article 501</p> <p>Canada: c(UL) CIC/TC FT4                  CSA AWM I/II A/B FT4</p> <p>Additional: torsion rated for wind market                  (± 90°/m) &amp; (± 150°/m)                  CE &amp; RoHS</p>
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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® CONTROL TM

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>						
281803	3	0.291	7.4	20	55	S1111
281804	4	0.315	8.0	26	64	S1111
281805	5	0.340	8.6	33	75	S1111
281807	7	0.367	9.3	46	97	S1111
281809	9	0.423	10.7	59	108	S1113
281812	12	0.471	12.0	79	165	S1116
281818	18	0.579	14.7	118	245	S1121
281819	19	0.579	14.7	124	262	S1121
281825	25	0.656	16.7	164	311	S1121
<b>16 AWG (1.5 mm²)</b>						
281603	3	0.319	8.1	29	66	S1111
281604	4	0.345	8.8	39	79	S1111
281605	5	0.375	9.5	48	95	S1111
281607	7	0.406	10.3	68	123	S1113
281609	9	0.470	11.9	88	165	S1116
281612	12	0.557	14.1	116	214	S1121
281618	18	0.644	16.4	175	289	S1121
281619	19	0.644	16.4	184	293	S1121
281625	25	0.733	18.6	242	311	S1129

\* Cable meets UL bus drop approval

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>						
281403*	3	0.356	9.0	49	88	S1111
281404*	4	0.386	9.8	65	106	S1113
281405	5	0.421	10.7	81	123	S1113
281407	7	0.457	11.6	113	163	S1113
281409	9	0.563	14.3	146	218	S1121
281412	12	0.628	16.0	194	298	S1121
281419	19	0.729	18.5	307	450	S1129
281425	25	0.872	22.1	404	569	S1129
<b>12 AWG (4 mm²)</b>						
281203*	3	0.417	10.6	78	110	S1113
281204*	4	0.454	11.5	104	148	S1113
281205	5	0.497	12.6	129	181	S1116
281207	7	0.573	14.6	181	324	S1121
281209	9	0.665	16.9	233	359	S1121
<b>10 AWG (6 mm²)</b>						
281003*	3	0.492	12.5	117	194	S1116
281004*	4	0.570	14.5	155	256	S1121
281005	5	0.623	15.8	194	306	S1121
281007	7	0.678	17.2	271	430	S1121
281009	9	0.791	20.1	349	549	S1129

ÖLFLEX® CONTROL TM CY

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>						
281803CY	3	0.316	8.0	37	79	53112220
281804CY	4	0.339	8.6	41	93	53112220
281805CY	5	0.365	9.3	55	99	53112220
281807CY	7	0.392	10.0	69	130	53112230
281812CY	12	0.502	12.8	109	223	53112240
281819CY	19	0.610	15.5	172	295	53112250
281825CY	25	0.687	17.4	222	386	53112260
<b>16 AWG (1.5 mm²)</b>						
281603CY	3	0.344	8.7	44	97	53112220
281604CY	4	0.370	9.4	60	117	53112230
281605CY	5	0.400	10.2	72	128	53112230
281607CY	7	0.437	11.1	94	165	53112230
281612CY	12	0.588	14.9	151	287	53112250
281618CY	18	0.675	17.1	227	326	53112260
281625CY	25	0.764	19.4	305	476	53112260

\* Cable meets UL bus drop approval

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>14 AWG (2.5 mm²)</b>						
281403CY*	3	0.381	9.7	71	121	53112230
281404CY*	4	0.411	10.4	91	150	53112230
281405CY	5	0.452	11.5	108	181	53112240
281407CY	7	0.488	12.4	143	220	53112240
281412CY	12	0.659	16.7	246	399	53112250
281419CY	19	0.760	19.3	369	527	53112260
281425CY	25	0.903	22.9	474	705	53112260
<b>12 AWG (4 mm²)</b>						
281203CY*	3	0.448	11.4	104	161	53112240
281204CY*	4	0.485	12.3	133	212	53112240
281205CY	5	0.560	14.2	163	260	53112250
281207CY	7	0.604	15.3	217	452	53112250
<b>10 AWG (6 mm²)</b>						
281003CY*	3	0.555	14.1	150	271	53112250
281004CY*	4	0.601	15.3	191	370	53112250
281005CY	5	0.654	16.6	245	412	53112250
281007CY	7	0.709	18.0	330	575	53112260

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.

# 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.

## Recommended applications

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

## Approvals



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

## Construction

**Conductors:** finely stranded bare copper

**Insulation:** specially formulated PVC

**Jacket:** specially formulated polyurethane with gap-filling functional layer; black

## 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

## Complete the installation



SKINTOP® strain relief  
page 492



EPIC® connectors  
page 284

## Technical data

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

ÖLFLEX® 409 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>19 AWG (0.75 mm<sup>2</sup>)</b>						
1311852	2	0.272	6.9	10	41	S2111
1311103	3	0.283	7.2	15	48	S2111
1311104	4	0.303	7.7	19	56	S2111
1311105	5	0.327	8.3	24	67	S2111
1311107	7	0.350	8.9	34	82	S2111
1311110	10	0.425	10.8	48	121	S2113
1311112	12	0.437	11.1	58	133	S2113
1311118	18	0.504	12.8	87	185	S2116
1311125	25	0.571	14.5	121	245	S2121
<b>18 AWG (1 mm<sup>2</sup>)</b>						
1311902	2	0.283	7.2	13	46	S2111
1311203	3	0.295	7.5	19	54	S2111
1311204	4	0.315	8.0	26	65	S2111
1311205	5	0.343	8.7	32	79	S2111
1311207	7	0.366	9.3	45	95	S2111
1311210	10	0.449	11.4	65	142	S2113
1311212	12	0.461	11.7	77	157	S2116
1311218	18	0.531	13.5	116	220	S2121
1311225	25	0.606	15.4	161	294	S2121
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
1311952	2	0.307	7.8	19	58	S2111
1311303	3	0.323	8.2	29	70	S2111
1311304	4	0.346	8.8	39	85	S2111

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>16 AWG (1.5 mm<sup>2</sup>)</b>						
1311305	5	0.374	9.5	48	101	S2111
1311307	7	0.402	10.2	68	126	S2113
1311312	12	0.512	13.0	116	211	S2116
1311318	18	0.591	15.0	174	296	S2121
1311325	25	0.677	17.2	242	401	S2121
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
1311403	3	0.374	9.5	48	101	S2111
1311404	4	0.402	10.2	65	124	S2113
1311405	5	0.437	11.1	81	151	S2113
1311407	7	0.472	12.0	113	190	S2116
1311412	12	0.610	15.5	194	323	S2121
<b>12 AWG (4 mm<sup>2</sup>)</b>						
1311504	4	0.465	11.8	103	179	S2116
1311505	5	0.508	12.9	129	218	S2116
<b>10 AWG (6 mm<sup>2</sup>)</b>						
1311604	4	0.516	13.1	155	241	S2116
1311605	5	0.563	14.3	194	294	S2121
<b>8 AWG (10 mm<sup>2</sup>)</b>						
1311704	4	0.650	16.5	258	393	S2121
1311705	5	0.717	18.2	323	485	S2129
<b>6 AWG (16 mm<sup>2</sup>)</b>						
1311804	4	0.752	19.1	413	579	S2129
1311805	5	0.870	22.1	516	744	S2129

\* 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.

# ÖLFLEX® 490 P/490 CP

Highly abrasion-resistant control cable with PUR jacket & UL/CSA AWM



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; any areas where the cable can be cut and 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 bare copper
- Insulation: specially formulated PVC
- Jacket: specially formulated polyurethane; gray

### Shielded construction

- Conductors: finely stranded bare copper
- Insulation: specially formulated PVC
- Shielding: overall foil tape wrap with drain wire; tinned copper braid (85% coverage)
- Jacket: specially formulated polyurethane; gray

### 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

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

### Technical data

<b>Minimum bend radius:</b> - for installation: 4 x cable diameter - shielded: 6 x cable diameter	<b>Color code:</b> black with white numbers, plus green/yellow ground
<b>Temperature range:</b> - for flexible use: -10°C to +80°C - for stationary use: -20°C to +80°C	<b>Approvals:</b> UL: AWM 20234 Attributes: UL Oil Res I/II sunlight resistant NFPA 79 Canada: CSA AWM I/II A/B FT 1 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 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® 490 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>20 AWG (0.5 mm²)</b>						
402002	2	0.245	6.2	7	35	S1107
402003	3	0.256	6.5	10	40	S1109
402004	4	0.274	7.0	13	46	S1109
402005	5	0.293	7.4	17	53	S1111
402007	7	0.313	8.0	23	66	S1111
402009	9	0.355	9.0	30	82	S1111
402012	12	0.401	10.2	38	106	S1113
402018	18	0.459	11.7	59	139	S1113
402025	25	0.534	13.6	79	176	S1121
<b>18 AWG (1 mm²)</b>						
401802	2	0.269	6.8	13	44	S1109
401803	3	0.281	7.1	20	51	S1111
401804	4	0.303	7.7	26	64	S1111
401805	5	0.325	8.3	31	75	S1111
401807	7	0.349	8.9	46	93	S1111
401809	9	0.399	10.1	59	119	S1113
401812	12	0.451	11.5	79	143	S1113
401818	18	0.519	13.2	118	203	S1116
401825	25	0.607	15.4	164	264	S1121

\* 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>16 AWG (1.5 mm²)</b>						
401602	2	0.295	7.5	20	53	S1111
401603	3	0.310	7.9	29	64	S1111
401604	4	0.333	8.5	39	77	S1111
401605	5	0.360	9.1	48	90	S1111
401607	7	0.388	9.9	68	115	S1113
401609	9	0.446	11.3	88	141	S1113
401612	12	0.496	12.6	117	179	S1116
401618	18	0.574	14.6	175	253	S1121
401625	25	0.654	16.6	242	335	S1121
<b>14 AWG (2.5 mm²)</b>						
401402	2	0.329	8.4	33	66	S1111
401403	3	0.347	8.8	49	75	S1111
401404	4	0.374	9.5	65	108	S1111
401405	5	0.406	10.3	81	121	S1113
401407	7	0.439	11.2	113	170	S1113
401409	9	0.507	12.9	146	194	S1116
401412	12	0.567	14.4	194	238	S1121
401418	18	0.659	16.7	290	357	S1121
401425	25	0.754	19.2	404	474	S1129

ÖLFLEX® 490 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>20 AWG (0.5 mm²)</b>						
402002CP	2	0.270	6.9	19	46	53112210
402003CP	3	0.281	7.1	24	55	53112220
402004CP	4	0.299	7.6	27	66	53112220
402005CP	5	0.318	8.1	33	73	53112220
402007CP	7	0.338	8.6	40	84	53112220
402009CP	9	0.380	9.7	53	104	53112230
402012CP	12	0.426	10.8	69	117	53112230
402018CP	18	0.490	12.4	90	163	53112240
402025CP	25	0.565	14.4	119	214	53112250
<b>18 AWG (1 mm²)</b>						
401802CP	2	0.294	7.5	28	62	53112220
401803CP	3	0.306	7.8	35	71	53112220
401804CP	4	0.328	8.3	44	82	53112220
401805CP	5	0.350	8.9	51	95	53112220
401807CP	7	0.374	9.5	70	117	53112230
401809CP	9	0.424	10.8	89	139	53112230
401812CP	12	0.473	12.0	110	176	53112240
401818CP	18	0.540	13.7	155	240	53112250
401825CP	25	0.609	15.5	218	311	53112250

\* 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>16 AWG (1.5 mm²)</b>						
401602CP	2	0.320	8.1	43	73	53112220
401603CP	3	0.335	8.5	50	82	53112220
401604CP	4	0.358	9.1	60	97	53112220
401605CP	5	0.385	9.8	76	112	53112230
401607CP	7	0.413	10.5	98	137	53112230
401609CP	9	0.477	12.1	122	170	53112240
401612CP	12	0.527	13.4	156	216	53112240
401618CP	18	0.605	15.4	231	295	53112250
401625CP	25	0.685	17.4	307	384	53112260
<b>14 AWG (2.5 mm²)</b>						
401402CP	2	0.354	9.0	56	84	53112220
401403CP	3	0.372	9.4	76	101	53112230
401404CP	4	0.399	10.1	96	123	53112230
401405CP	5	0.431	10.9	116	145	53112230
401407CP	7	0.470	11.9	149	183	53112240
401409CP	9	0.538	13.7	188	225	53112250
401412CP	12	0.598	15.2	242	287	53112250
401418CP	18	0.690	17.5	359	390	53112260
401425CP	25	0.785	19.9	479	558	53112260

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.

# ÖLFLEX® 590 P/590 CP

Flexible heavy duty, 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

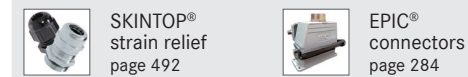
Shielding: overall foil tape with drain wire; tinned copper braid (85% coverage)

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 FT 1 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	0.321	8.2	18	51	S2111
501603	3	0.338	8.6	26	64	S2111
501604	4	0.366	9.3	39	77	S2111
501605	5	0.395	10.0	44	90	S2113
501607	7	0.427	10.8	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	0.375	9.5	43	82	S2111
501404	4	0.407	10.3	57	101	S2113
501405	5	0.441	11.2	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	0.481	12.2	105	161	S2116
501004	4	0.525	13.3	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	0.348	9.6	37	73	53112220
501603CP	3	0.365	9.3	46	86	53112220
501604CP	4	0.391	9.3	56	99	53112230
501605CP	5	0.418	10.6	67	117	53112230
<b>14 AWG (2.5 mm²)</b>						
501403CP	3	0.402	10.2	71	108	53112230
501404CP	4	0.438	11.1	88	130	53112230
501405CP	5	0.474	12.0	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	0.468	11.9	109	156	53112240
501204CP	4	0.506	12.9	136	190	53112240
501205CP	5	0.550	14.0	160	231	53112240
<b>10 AWG (6 mm²)</b>						
501003CP	3	0.514	13.1	147	216	53112240
501004CP	4	0.557	14.1	184	262	53112250
501005CP	5	0.626	15.9	222	315	53112250

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.

# ÖLFLEX® POWER MULTI

Flexible oil-resistant tray cable & STOOW extra hard service cordage



ÖLFLEX® POWER MULTI is a multi-purpose power cable with cordage, tray, and NEC Class 1 Div. 1 (flexible use only) approvals.

## Recommended applications

Power cord for equipment; paint booths; appliances; factory installations; any power hook-up in the plant

## Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	FL-02	MECH.	MP-03

## Construction

**Conductors:** finely stranded bare copper

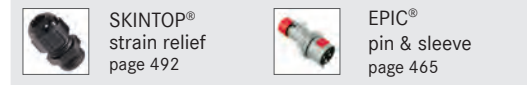
**Insulation:** specially formulated PVC

**Jacket:** specially formulated thermoplastic polymer; black

## Application advantage

- UL & CSA STOOW cordage approval
- UL TC-ER & CSA TC approval
- One cable does the job of three
- Durable jacket for long performance life

## Complete the installation



## Technical data

**Minimum bend radius:**  
- for installation: 4 x cable diameter

**Temperature range:**  
- UL/CSA TC: -25°C to +90°C  
- for flexible use: -25°C to +105°C  
- for stationary use: -40°C to +105°C

**Nominal voltage:**  
- UL/CSA TC/STOOW: 600V

**Test voltage:** 2000V

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

**Color code:**  
- 3c: color & number-coded black, white, green/yellow  
- 4c: black, white, red, green/yellow  
- 5c: black, white, red, brown, green/yellow  
- 7c & higher: black with white numbers, plus green/yellow ground

**Approvals:**  
UL: TC-ER per UL 1277  
STOOW per UL 62  
Attributes: UL Oil Res I/II  
75°C wet; 90°C dry  
sunlight resistant  
direct burial  
NFPA 79  
NEC: Class 1 Division 1 & 2 per  
NEC Article 501  
Canada: c(UL) CIC/TC FT4  
c(UL) STOOW  
CSA AWM I/II A/B FT4  
Additional: CE & RoHS

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>						
611803	3	0.371	9.4	20	62	S2111
611804	4	0.399	10.1	26	71	S2113
611805	5	0.471	12.0	33	82	S2116
<b>16 AWG (1.5 mm²)</b>						
611603	3	0.399	10.1	29	75	S2113
611604	4	0.430	10.9	39	88	S2113
611605	5	0.507	12.9	49	104	S2116
611607	7	0.544	13.8	68	132	S2121
611612	12	0.719	18.3	117	225	S2129
611618	18	0.824	20.9	175	295	S2129
611625	25	0.966	24.5	242	401	S2136

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>						
611403	3	0.541	13.8	49	93	S2121
611404	4	0.584	14.8	65	112	S2121
611405	5	0.663	16.8	81	132	S2121
<b>12 AWG (4 mm²)</b>						
611203	3	0.631	16.0	78	126	S2121
611204	4	0.681	17.3	104	156	S2129
611205	5	0.739	18.8	129	192	S2129
<b>10 AWG (6 mm²)</b>						
611003	3	0.676	17.2	117	229	S2121
611004	4	0.732	18.6	155	271	S2129
<b>8 AWG (10 mm²)</b>						
610803	3	0.840	21.3	194	430	S2129
610804	4	0.943	24.0	258	566	S2129

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. Photographs are not to scale and are not true representations of the products in question.

# ÖLFLEX® CLASSIC 100/100 CY

Flexible color-coded power & control cable



ÖLFLEX® CLASSIC 100 is a color-coded multi-conductor power and control cable for use in all electrical equipment in dry, damp, or wet conditions. It is a European-style cable, conforms to CE, and is available shielded or unshielded.

## Recommended applications

Control systems; assembly lines; control panels; data processing equipment; European machinery

## Approvals



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

## Unshielded construction

**Conductors:** finely stranded bare copper

**Insulation:** PVC

**Jacket:** PVC; gray

## Shielded construction

**Conductors:** finely stranded bare copper

**Insulation:** PVC

**Shielding:** Gray PVC inner jacket; tinned copper braid (85% coverage)

**Jacket:** PVC; transparent

## Application advantage

- European color code for power
- Conforms to CE standards
- Available with inner jacket and tinned copper braid for EMI & RFI protection
- Pressure-extruded jacket for improved flexibility

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

Technical data	
<b>Minimum bend radius:</b>	
- for installation:	4 x cable diameter
- shielded:	6 x cable diameter
<b>Temperature range:</b>	
- for flexible use:	-5°C to +70°C
- for stationary use:	-40°C to +80°C
<b>Nominal voltage:</b>	
- unshielded:	
- ≤ 16 AWG:	300/500V
- ≥ 14 AWG:	450/750V
- shielded:	
- ≤ 18 AWG:	300/500V
- ≥ 16 AWG:	450/750V
<b>Test voltage:</b>	4000V
<b>Conductor stranding:</b>	Class 5 fine wire
<b>Color code:</b>	VDE 0293-308: chart 6, page 681
<b>Approvals:</b>	based on VDE specifications 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.

ÖLFLEX® CLASSIC 100

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>20 AWG (0.5 mm<sup>2</sup>)</b>					
00100004	2	0.189	4.8	6	24 S1107
00100014	3	0.201	5.1	10	28 S1107
00100024	4	0.224	5.7	13	36 S1107
00100034	5	0.244	6.2	16	42 S1107
<b>18 AWG (1 mm<sup>2</sup>)</b>					
00100414	2	0.224	5.7	13	36 S1107
00100424	3	0.236	6.0	19	44 S1107
00100434	4	0.256	6.5	26	53 S1109
00100444	5	0.280	7.1	32	63 S1111
<b>16 AWG (1.5 mm<sup>2</sup>)</b>					
00100634	2	0.248	6.3	19	46 S1109
00100644	3	0.264	6.7	29	56 S1109
00100654	4	0.283	7.2	39	70 S1111
00100664	5	0.319	8.1	48	86 S1111
<b>14 AWG (2.5 mm<sup>2</sup>)</b>					
0010086	2	0.350	8.9	32	86 S1111
0010087	3	0.378	9.6	48	109 S1113
00100883	4	0.421	10.7	65	136 S1113
00100893	5	0.465	11.8	81	163 S1116
<b>12 AWG (4 mm<sup>2</sup>)</b>					
0010100	2	0.409	10.4	52	126 S1113
0010210	3	0.441	11.2	77	164 S1113
00101013	4	0.492	12.5	103	200 S1116
00101023	5	0.539	13.7	129	239 S1121
<b>10 AWG (6 mm<sup>2</sup>)</b>					
0010105	3	0.496	12.6	116	214 S1116
00101063	4	0.543	13.8	155	265 S1121
00101073	5	0.614	15.6	194	329 S1121

\* 2c cable does not include ground  
 \*\* SKINTOP® MS with metric thread

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>8 AWG (10 mm<sup>2</sup>)</b>					
0010301	3	0.626	15.9	194	342 S1121
00101093	4	0.693	17.6	258	437 S1129
00101103	5	0.776	19.7	323	532 S1129
<b>6 AWG (16 mm<sup>2</sup>)</b>					
0010302	3	0.720	18.3	310	489 S1129
00101123	4	0.803	20.4	413	730 S1129
00101133	5	0.898	22.8	516	751 S1129
<b>4 AWG (25 mm<sup>2</sup>)</b>					
0010303	3	0.906	23.0	484	932 S1129
00101153	4	1.000	25.4	645	1063 S1136
00101163	5	1.122	28.5	806	1190 S1136
<b>2 AWG (35 mm<sup>2</sup>)</b>					
0010304	3	1.008	25.6	677	1187 S1136
00101173	4	1.122	28.5	903	1416 S1136
00101183	5	1.256	31.9	1129	1771 S1248
<b>1 AWG (50 mm<sup>2</sup>)</b>					
0010305	3	1.220	31.0	968	1718 S1248
00101193	4	1.358	34.5	1290	1978 S1248
<b>2/0 AWG (70 mm<sup>2</sup>)</b>					
0010306	3	1.390	35.3	1355	2139 S1142
00101203	4	1.551	39.4	1806	2750 S1148
<b>3/0 AWG (95 mm<sup>2</sup>)</b>					
0010307	3	1.626	41.3	1839	3142 S1148
00101213	4	1.803	45.8	2451	3534 S3112080**
<b>4/0 AWG (120 mm<sup>2</sup>)</b>					
0010308	3	1.874	47.6	2322	3776 S3112080**
00103093	4	2.091	53.1	3096	4694 S3112080**
<b>350 KCMIL (185 mm<sup>2</sup>)</b>					
00103123	4	2.472	62.8	4774	5578 S3112510**

ÖLFLEX® CLASSIC 100 CY

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>20 AWG (0.5 mm<sup>2</sup>)</b>					
0035001	2	0.276	7.0	28	50 53112210
0035002	3	0.287	7.3	31	56 53112220
00350033	4	0.311	7.9	37	67 53112220
00352013	5	0.331	8.4	44	75 53112220
<b>18 AWG (1 mm<sup>2</sup>)</b>					
0035220	2	0.311	7.9	38	66 53112220
0035221	3	0.323	8.2	44	75 53112220
00352223	4	0.343	8.7	52	87 53112220
00352233	5	0.374	9.5	60	103 53112230
<b>16 AWG (1.5 mm<sup>2</sup>)</b>					
0035000	2	0.390	9.9	44	89 53112230
0035458	3	0.406	10.3	53	114 53112230
00354593	4	0.445	11.3	65	137 53112240
00354603	5	0.496	12.6	78	165 53112240
<b>14 AWG (2.5 mm<sup>2</sup>)</b>					
0035011	3	0.465	11.8	98	142 53112240
00350173	4	0.531	13.5	112	208 53112240
00350123	5	0.575	14.6	134	219 53112250
<b>12 AWG (4 mm<sup>2</sup>)</b>					
00350183	4	0.594	15.1	159	271 53112250
00350133	5	0.650	16.5	220	321 53112250
<b>10 AWG (6 mm<sup>2</sup>)</b>					
00350193	4	0.654	16.6	214	350 53112250
00350143	5	0.717	18.2	296	419 53112260

\* 2c cable does not include ground  
 \* SKINTOP® MS-SC with metric thread  
 \*\* SKINTOP® BRUSH with metric 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>8 AWG (10 mm<sup>2</sup>)</b>					
00350213	4	0.831	21.1	375	566 53112260
00352903	5	0.909	23.1	480	675 53112260
<b>6 AWG (16 mm<sup>2</sup>)</b>					
00350223	4	0.941	23.9	540	782 53112260
00350153	5	1.055	26.8	706	1216 53112270
<b>4 AWG (25 mm<sup>2</sup>)</b>					
00350233	4	1.157	29.4	866	1279 53112270
00350243	5	1.283	32.6	972	1595 53112670*
<b>2 AWG (35 mm<sup>2</sup>)</b>					
00350253	4	1.276	32.4	1138	1673 53112670*
00350263	5	1.417	36.0	1327	1862 53112680**
<b>1 AWG (50 mm<sup>2</sup>)</b>					
00350273	4	1.528	38.8	1574	2259 53112680**
<b>2/0 AWG (70 mm<sup>2</sup>)</b>					
00350283	4	1.720	43.7	2039	2499 53112680**
<b>3/0 AWG (95 mm<sup>2</sup>)</b>					
00350293	4	1.984	50.4	2725	3931 53112681**
<b>4/0 AWG (120 mm<sup>2</sup>)</b>					
00354303	4	2.236	56.8	3511	5046 53112501**
<b>300 KCMIL (150 mm<sup>2</sup>)</b>					
00354313	4	2.449	62.2	4233	5242 53112500**
<b>350 KCMIL (185 mm<sup>2</sup>)</b>					
00354323	4	2.669	67.8	5210	6630 53112503**

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.

# ÖLFLEX® CLASSIC 100 SY

Flexible color-coded power & control cable with steel braid



ÖLFLEX® CLASSIC 100 SY is a color-coded multi-conductor power and control cable with a galvanized steel braided shield for mechanical and low frequency protection. It is for use in all electrical equipment in dry, damp, or wet conditions. It is a European-style cable conforming to CE.

## Recommended applications

Control systems; assembly lines; control panels; data processing equipment; European machinery

## Approvals



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

## Construction

- Conductors:** finely stranded bare copper
- Insulation:** PVC
- Inner jacket:** PVC; gray
- Shielding:** galvanized steel braid (75% coverage)
- Jacket:** PVC; transparent

## Application advantage

- Available with inner jacket and steel braid for mechanical protection
- Steel braid provides protection from low-frequency noise
- Pressure-extruded jacket for improved flexibility

Complete the installation

SKINTOP®  
MS-SC  
page 522

EPIC®  
connectors  
page 284

## Technical data

<p> <b>Minimum bend radius:</b> - for installation: 6 x cable diameter</p> <p> <b>Temperature range:</b> - for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C</p> <p> <b>Nominal voltage:</b> - ≤ 16 AWG: 300/500V - ≥ 14 AWG: 450/750V</p>	<p> <b>Test voltage:</b> 4000V</p> <p> <b>Conductor stranding:</b> Class 5 fine wire</p> <p> <b>Color code:</b> VDE 0293-308: chart 6, page 681</p> <p> <b>Approvals:</b> based on VDE specifications CE &amp; RoHS</p>
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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>						
0016043	3	0.346	8.8	19	103	S1111
00160443	4	0.374	9.5	26	121	S1111
00160453	5	0.398	10.1	32	136	S1113
<b>16 AWG (1.5 mm²)</b>						
0016065	3	0.382	9.7	29	128	S1113
00160663	4	0.402	10.2	39	146	S1113
00160673	5	0.437	11.1	48	180	S1113
<b>14 AWG (2.5 mm²)</b>						
0016088	3	0.496	12.6	48	187	S1116
00160893	4	0.547	13.9	65	228	S1121
00160903	5	0.598	15.2	81	267	S1121
<b>12 AWG (4 mm²)</b>						
0016101	2	0.535	13.6	52	221	S1121
00161023	4	0.618	15.7	103	307	S1121
00161033	5	0.673	17.1	129	366	S1121

\* 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>10 AWG (6 mm²)</b>						
0016106	3	0.622	15.8	116	365	S1121
00161073	4	0.677	17.2	155	461	S1121
00161083	5	0.740	18.8	194	536	S1129
<b>8 AWG (10 mm²)</b>						
00161103	4	0.838	21.3	258	677	S1129
00161113	5	0.917	23.3	323	803	S1129
<b>6 AWG (16 mm²)</b>						
00161133	4	0.949	24.1	413	929	S1129
<b>4 AWG (25 mm²)</b>						
00161163	4	1.157	29.4	645	1356	S1136
00161173	5	1.283	32.6	806	1654	S1248
<b>2 AWG (35 mm²)</b>						
00161183	4	1.276	32.4	903	1725	S1248

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. Photographs are not to scale and are not true representations of the products in question.

# ÖLFLEX® CLASSIC 110/110 CY

Flexible number-coded power & control cable



ÖLFLEX® CLASSIC 110 is a number-coded multi-conductor power and control cable for use in all electrical equipment in dry, damp, or wet conditions. It is a European-style cable, conforms to CE, and is available unshielded or shielded.

### Recommended applications

Control systems; assembly lines; control panels; data processing equipment; European machinery

### Approvals



#### Cable attributes page 648

OIL	OR-01	FLAME	FR-02
MOTION	FL-01	MECH.	MP-01

### Unshielded construction

Conductors: finely stranded bare copper

Insulation: PVC

Jacket: PVC; gray

### Shielded construction

Conductors: finely stranded bare copper

Insulation: PVC

Inner jacket: PVC; gray

Shielding: tinned copper braid (85% coverage)

Jacket: PVC; transparent

### Application advantage

- Common European control cable
- Conforms to CE standards
- Available with inner jacket and tinned copper braid for EMI & RFI protection
- Pressure-extruded jacket for improved flexibility

#### Complete the installation



SKINTOP® strain relief  
page 492



EPIC® connectors  
page 284

### Technical data

<b>Minimum bend radius:</b> - for installation: 4 x cable diameter - shielded: 6 x cable diameter	<b>Test voltage:</b> 4000V
<b>Temperature range:</b> - for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C	<b>Conductor stranding:</b> Class 5 fine wire
<b>Nominal voltage:</b> 300/500V	<b>Color code:</b> black with white numbers, plus green/yellow ground
	<b>Approvals:</b> based on VDE 7030 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.

ÖLFLEX® CLASSIC 110

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® SL
		in	mm	lbs/mft	lbs/mft	PG thread
<b>20 AWG (0.5 mm²)</b>						
1119752	2	0.189	4.8	6	24	S1107
1119003	3	0.201	5.1	10	28	S1107
1119004	4	0.224	5.7	13	36	S1107
1119005	5	0.244	6.2	16	42	S1107
1119007	7	0.264	6.7	23	54	S1109
1119012	12	0.350	8.9	39	88	S1111
1119018	18	0.413	10.5	58	126	S1113
1119025	25	0.488	12.4	81	175	S1116
1119035	35	0.571	14.5	113	239	S1121
1119052	52	0.681	17.3	168	347	S1129
1119065	65	0.772	19.6	210	433	S1129
1119080	80	0.831	21.1	258	524	S1129
1119100	100	0.929	23.6	323	655	S1129
<b>18 AWG (1 mm²)</b>						
1119852	2	0.224	5.7	13	36	S1107
1119203	3	0.236	6.0	19	44	S1107
1119204	4	0.256	6.5	26	53	S1109
1119205	5	0.280	7.1	32	63	S1111
1119207	7	0.315	8.0	45	85	S1111
1119212	12	0.413	10.5	77	138	S1113
1119218	18	0.500	12.7	116	215	S1116
1119225	25	0.579	14.7	161	274	S1121
1119234	34	0.673	17.1	219	370	S1121
1119241	41	0.740	18.8	265	444	S1129
1119250	50	0.811	20.6	323	536	S1129
1119265	65	0.929	23.6	419	694	S1129
1119280	80	0.996	25.3	516	841	S1136
1119300	100	1.114	28.3	645	1048	S1136
<b>16 AWG (1.5 mm²)</b>						
1119902	2	0.248	6.3	19	46	S1109
1119303	3	0.264	6.7	29	56	S1109
1119304	4	0.283	7.2	39	70	S1111
1119305	5	0.319	8.1	48	86	S1111
1119307	7	0.350	8.9	68	112	S1111
1119312	12	0.472	12.0	116	188	S1116

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® SL
		in	mm	lbs/mft	lbs/mft	PG thread
1119318	18	0.567	14.4	174	274	S1121
1119325	25	0.665	16.9	242	376	S1121
1119334	34	0.764	19.4	329	501	S1129
1119341	41	0.839	21.3	397	602	S1129
1119350	50	0.925	23.5	484	732	S1129
1119365	65	1.051	26.7	629	940	S1136
<b>14 AWG (2.5 mm²)</b>						
1119952	2	0.295	7.5	32	68	S1111
1119403	3	0.319	8.1	48	89	S1111
1119404	4	0.350	8.9	65	110	S1111
1119405	5	0.394	10.0	81	134	S1113
1119407	7	0.437	11.1	113	179	S1113
1119412	12	0.583	14.8	194	299	S1121
1119418	18	0.701	17.8	290	436	S1129
1119425	25	0.819	20.8	403	598	S1129
1119434	34	0.961	24.4	548	812	S1129
1119450	50	1.157	29.4	806	1179	S1136
<b>12 AWG (4 mm²)</b>						
1119503	3	0.390	9.9	77	135	S1113
1119504	4	0.425	10.8	103	167	S1113
1119505	5	0.476	12.1	129	198	S1116
1119507	7	0.528	13.4	181	274	S1116
<b>10 AWG (6 mm²)</b>						
1119603	3	0.461	11.7	116	194	S1116
1119604	4	0.512	13.0	155	245	S1116
1119605	5	0.571	14.5	194	300	S1121
1119607	7	0.630	16.0	271	403	S1121
<b>8 AWG (10 mm²)</b>						
1119614	4	0.638	16.2	258	397	S1121
<b>6 AWG (16 mm²)</b>						
1119624	4	0.740	18.8	413	731	S1129
<b>4 AWG (25 mm²)</b>						
1119634	4	0.925	23.5	645	1063	S1129
<b>2 AWG (35 mm²)</b>						
1119644	4	1.039	26.4	903	1415	S1136
1119645	5	1.165	29.6	1129	1771	S1136

ÖLFLEX® CLASSIC 110 CY

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
<b>20 AWG (0.5 mm²)</b>						
1135003	3	0.287	7.3	31	56	53112220
1135004	4	0.311	7.9	37	67	53112220
1135005	5	0.331	8.4	44	75	53112220
1135007	7	0.350	8.9	54	89	53112220
1135012	12	0.445	11.3	93	136	53112240
1135018	18	0.524	13.3	105	194	53112240
1135025	25	0.598	15.2	168	254	53112250
<b>18 AWG (1 mm²)</b>						
1135203	3	0.323	8.2	44	75	53112220
1135204	4	0.343	8.7	52	87	53112220
1135205	5	0.374	9.5	60	103	53112230
1135207	7	0.402	10.2	76	124	53112230
1135212	12	0.524	13.3	126	206	53112240
1135218	18	0.610	15.5	192	288	53112250
1135225	25	0.689	17.5	261	366	53112260
<b>16 AWG (1.5 mm²)</b>						
1135902	2	0.335	8.5	44	79	53112220
1135303	3	0.350	8.9	56	91	53112220
1135304	4	0.378	9.6	67	110	53112230

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
1135305	5	0.406	10.3	84	126	53112230
1135307	7	0.445	11.3	100	159	53112240
1135312	12	0.583	14.8	188	264	53112250
1135318	18	0.677	17.2	261	362	53112260
1135325	25	0.791	20.1	360	501	53112260
<b>14 AWG (2.5 mm²)</b>						
1135403	3	0.406	10.3	98	129	53112230
1135404	4	0.445	11.3	112	157	53112240
1135405	5	0.496	12.6	134	190	53112240
1135407	7	0.547	13.9	194	249	53112250
<b>12 AWG (4 mm²)</b>						
1135504	4	0.528	13.4	159	233	53112240
1135505	5	0.579	14.7	188	278	53112250
<b>10 AWG (6 mm²)</b>						
1135604	4	0.622	15.8	214	326	53112250
<b>8 AWG (10 mm²)</b>						
1135614	4	0.748	19.0	375	494	53112260
<b>6 AWG (16 mm²)</b>						
1135624	4	0.874	22.2	540	934	53112260

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.

# ÖLFLEX® CLASSIC 110 SY

Flexible number-coded power & control cable with steel braid



ÖLFLEX® CLASSIC 110 SY is a number-coded multi-conductor power and control cable with a galvanized steel braid shield for mechanical and low-frequency protection. It is a European-style cable conforming to CE, for use in all electrical equipment in dry, damp, or wet conditions.

## Recommended applications

Control systems; assembly lines; control panels; data processing equipment; European machinery

## Approvals



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

## Construction

**Conductors:** finely stranded bare copper

**Insulation:** PVC

**Inner jacket:** PVC; gray

**Shielding:** galvanized steel braid (75% coverage)

**Jacket:** PVC; transparent

## Application advantage

- European-style control and power cable
- Conforms to CE standards
- Inner jacket and steel braid for mechanical protection
- Steel braid provides protection from low-frequency noise
- Pressure-extruded jacket for improved flexibility

## Complete the installation

	SKINTOP® MS-SC page 522		EPIC® connectors page 284
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## Technical data

**Minimum bend radius:** 6 x cable diameter

**Temperature range:**  
 - for flexible use: -5°C to +70°C  
 - for stationary use: -40°C to +80°C

**Nominal voltage:** 300/500V

**Test voltage:** 4000V

**Conductor stranding:** Class 5 fine wire

**Color code:** black with white numbers, plus green/yellow ground

**Approvals:** based on VDE 7030  
CE & RoHS

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>20 AWG (0.5 mm²)</b>						
1125003	3	0.319	8.1	10	64	53112220
1125004	4	0.335	8.5	13	72	53112220
1125005	5	0.362	9.2	16	83	53112220
1125007	7	0.382	9.7	23	99	53112230
1125012	12	0.469	11.9	39	143	53112240
1125018	18	0.547	13.9	58	196	53112250
1125025	25	0.614	15.6	81	252	53112250
<b>18 AWG (1 mm²)</b>						
1125852	2	0.335	8.5	13	71	53112220
1125203	3	0.346	8.8	19	80	53112220
1125204	4	0.374	9.5	26	95	53112230
1125205	5	0.398	10.1	32	110	53112230
1125207	7	0.433	11.0	45	134	53112230
1125212	12	0.547	13.9	77	208	53112250
1125218	18	0.626	15.9	116	279	53112250
1125225	25	0.713	18.1	161	368	53112260
<b>16 AWG (1.5 mm²)</b>						
1125303	3	0.382	9.7	29	101	53112230
1125304	4	0.402	10.2	39	116	53112230
1125305	5	0.437	11.1	48	136	53112230
1125307	7	0.469	11.9	68	167	53112240

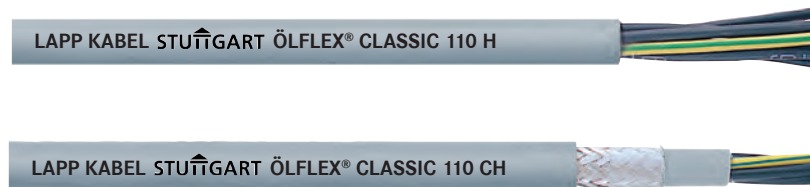
Part number	Number of conductors incl. ground*	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
1125312	12	0.606	15.4	116	266	53112250
1125318	18	0.693	17.6	174	362	53112260
1125325	25	0.799	20.3	242	479	53112260
<b>14 AWG (2.5 mm²)</b>						
1125403	3	0.437	11.1	48	138	53112230
1125404	4	0.476	12.1	65	167	53112240
1125405	5	0.520	13.2	81	198	53112240
1125407	7	0.563	14.3	113	251	53112250
1125412	12	0.717	18.2	194	394	53112260
1125418	18	0.843	21.4	290	553	53112260
1125425	25	0.961	24.4	403	734	53112260
<b>12 AWG (4 mm²)</b>						
1125503	3	0.500	12.7	77	192	53112240
1125504	4	0.551	14.0	103	234	53112250
1125505	5	0.594	15.1	129	276	53112250
<b>10 AWG (6 mm²)</b>						
1125604	4	0.638	16.2	155	324	53112250
1125605	5	0.697	17.7	194	389	53112260
<b>8 AWG (10 mm²)</b>						
1125614	4	0.764	19.4	258	491	53112260
<b>6 AWG (16 mm²)</b>						
1125624	4	0.882	22.4	413	930	53112260

\* 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. Photographs are not to scale and are not true representations of the products in question.

# ÖLFLEX® CLASSIC 110 H/110 CH

Oil-resistant, low smoke, zero halogen control cable



ÖLFLEX® 110 H/110 CH is a low smoke, zero halogen (LSZH), multi-conductor control and power cable with improved oil resistance and flame protection. It is for use in all electrical equipment in dry or damp conditions. It is UV and weather resistant and comes in shielded and unshielded versions.

### Recommended applications

Public buildings; airports; railway stations; amusement rides; areas where human safety is a concern

### Approvals



Cable attributes		page 648	
OIL	OR-04	FLAME	FR-04
MOTION	FL-01	MECH.	MP-01

### Unshielded construction

**Conductors:** finely stranded bare copper  
**Insulation:** halogen-free  
**Jacket:** halogen-free; gray

### Shielded construction

**Conductors:** finely stranded bare copper  
**Insulation:** halogen-free  
**Inner jacket:** halogen-free; gray  
**Shielding:** tinned copper braid (85% coverage)  
**Jacket:** halogen-free; gray

### Application advantage

- Low smoke, zero halogen (LSZH)
- Flame retardant
- Highly flexible and oil resistant
- UV-resistant jacket

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

### Technical data

<b>Minimum bend radius:</b> - unshielded: 4 x cable diameter - shielded: 6 x cable diameter	<b>Color code:</b> black with white numbers, plus green/yellow ground
<b>Temperature range:</b> - for flexible use: -30°C to +70°C (UL: +75°C) - for stationary use: -40°C to +80°C (UL: +75°C)	<b>Approvals:</b> UL: AWM 21089 AWM 75°C, 600V Attributes: Oil Res I/II NFPA 79 sunlight resistant Additional: based on VDE specifications CE & RoHS DNV-GL certified LS acc. to IEC 61034-2 HF acc. to IEC 60754-1 Corrosiveness acc. to IEC 60754-2 FR acc. to IEC 60332-3-22/24/25
<b>Nominal voltage:</b> - UL: 600V - U <sub>0</sub> /U: 300/500V	
<b>Test voltage:</b> 4000V	
<b>Conductor stranding:</b> Class 5 fine wire	

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® CLASSIC 110 H

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>20 AWG (0.5 mm<sup>2</sup>)</b>						
10019901	3	0.213	5.4	10	33	S1107
10019903	4	0.228	5.8	13	39	S1107
10019905	5	0.248	6.3	16	46	S1109
10019906	7	0.272	6.9	23	58	S1109
10019907	12	0.358	9.1	39	95	S1111
<b>18 AWG (1 mm<sup>2</sup>)</b>						
10019961	3	0.240	6.1	19	48	S1107
10019963	4	0.260	6.6	26	58	S1109
10019965	5	0.287	7.3	32	70	S1111
10019967	7	0.319	8.1	45	93	S1111
10019969	12	0.421	10.7	77	151	S1113
10019971	18	0.508	12.9	116	220	S1116
10019972	25	0.591	15.0	161	299	S1121
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
10019931	3	0.268	6.8	29	63	S1109
10019932	4	0.291	7.4	39	77	S1111
10019933	5	0.327	8.3	48	95	S1111
10019934	7	0.354	9.0	68	124	S1111
10019935	12	0.480	12.2	116	207	S1116
10019937	18	0.575	14.6	174	302	S1121
10019938	25	0.677	17.2	242	415	S1121

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
10019945	3	0.327	8.3	48	98	S1111
10019946	4	0.354	9.0	65	121	S1111
10019947	5	0.398	10.1	81	149	S1113
10019948	7	0.441	11.2	113	198	S1113
10019949	12	0.594	15.1	194	330	S1121
<b>12 AWG (4 mm<sup>2</sup>)</b>						
10019950	4	0.425	10.8	103	180	S1113
10019951	5	0.476	12.1	129	220	S1116
10019952	7	0.528	13.4	181	294	S1116
<b>10 AWG (6 mm<sup>2</sup>)</b>						
10019953	4	0.512	13.0	155	263	S1116
10019954	5	0.571	14.5	194	321	S1121
10019975	7	0.630	16.0	271	429	S1121
<b>8 AWG (10 mm<sup>2</sup>)</b>						
10019851	4	0.638	16.2	258	427	S2121
<b>6 AWG (16 mm<sup>2</sup>)</b>						
10019849	4	0.740	18.8	413	625	S2129
<b>4 AWG (25 mm<sup>2</sup>)</b>						
10019854	4	0.925	23.5	645	969	S2129
<b>2 AWG (35 mm<sup>2</sup>)</b>						
10019856	4	1.050	26.6	912	1288	S2136

ÖLFLEX® CLASSIC 110 CH

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>20 AWG (0.5 mm<sup>2</sup>)</b>						
10035031	3	0.291	7.4	24	64	53112220
10035033	4	0.315	8.0	28	75	53112220
10035035	5	0.339	8.6	32	85	53112220
10035036	7	0.358	9.1	40	99	53112220
10035037	12	0.453	11.5	61	152	53112240
<b>18 AWG (1 mm<sup>2</sup>)</b>						
10035056	3	0.331	8.4	35	85	53112220
10035058	4	0.350	8.9	49	106	53112220
10035060	5	0.382	9.7	56	115	53112230
10035061	7	0.406	10.3	65	141	53112230
10035062	12	0.535	13.6	113	233	53112240
10035063	18	0.618	15.7	158	319	53112250
10035064	25	0.701	17.8	210	411	53112260
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
10035068	3	0.354	9.0	46	104	53112220
10035070	4	0.386	9.8	58	125	53112230
10035071	5	0.413	10.5	69	144	53112230
10035072	7	0.449	11.4	90	181	53112240
10035073	12	0.591	15.0	156	299	53112250
10035074	18	0.685	17.4	220	410	53112260
10035075	25	0.803	20.4	311	566	53112260

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>14 AWG (2.5 mm<sup>2</sup>)</b>						
10035089	3	0.413	10.5	69	148	53112230
10035090	4	0.449	11.4	87	178	53112240
10035091	5	0.500	12.7	106	216	53112240
10035092	7	0.551	14.0	150	284	53112250
10035093	12	0.705	17.9	242	443	53112260
<b>12 AWG (4 mm<sup>2</sup>)</b>						
10035094	4	0.535	13.6	140	262	53112240
10035095	5	0.587	14.9	169	311	53112250
10035096	7	0.638	16.2	224	395	53112250
<b>10 AWG (6 mm<sup>2</sup>)</b>						
10035097	4	0.622	15.8	198	347	53112250
10035098	5	0.681	17.3	239	414	53112260
10035099	7	0.740	18.8	322	532	53112260
<b>8 AWG (10 mm<sup>2</sup>)</b>						
10035380	4	0.752	19.1	310	530	53112260
<b>6 AWG (16 mm<sup>2</sup>)</b>						
10035382	4	0.878	22.3	489	775	53112260
<b>4 AWG (25 mm<sup>2</sup>)</b>						
10035384	4	1.063	27.0	755	1214	53112270
<b>2 AWG (35 mm<sup>2</sup>)</b>						
10035386	4	1.197	30.4	1028	1560	53112270

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.

# ÖLFLEX® CLASSIC 130 H BK/135 CH BK

Low smoke, zero halogen control cable



ÖLFLEX® CLASSIC 130 H BK/135 CH BK is a low smoke, zero halogen (LSZH) multi-conductor power and control cable. It is for use in all electrical equipment in dry or damp conditions. It is UV and weather resistant and comes in shielded and unshielded versions.

## Recommended applications

Public buildings; airports; railway stations; amusement rides; areas where human safety is a concern

## Approvals



Cable attributes		page 648	
OIL	OR-01	FLAME	FR-04
MOTION	FL-01	MECH.	MP-01

## Unshielded construction

**Conductors:** finely stranded bare copper

**Insulation:** halogen-free

**Jacket:** halogen-free; black

## Shielded construction

**Conductors:** finely stranded bare copper

**Insulation:** halogen-free

**Shielding:** foil tape; tinned copper braid (85% coverage)

**Jacket:** halogen-free; black

## Application advantage

- Low smoke, zero halogen (LSZH)
- Flame retardant
- Highly flexible
- UV-resistant jacket

Complete the installation	
SKINTOP® strain relief page 492	EPIC® connectors page 284

## Technical data

<b>Minimum bend radius:</b>	4 x cable diameter	<b>Color code:</b>	- up to 5c: VDE 0293-308: chart 6, page 681
			- 6c & higher: black with white numbers, plus green/yellow ground
<b>Temperature range:</b>		<b>Approvals:</b>	UL: AWM 21156
- for flexible use:	-25°C to +70°C (UL: +75°C)	Attributes:	sunlight resistant
- for stationary use:	-40°C to +80°C (UL: +75°C)	Additional:	NFPA 79
<b>Nominal voltage:</b>			CE & RoHS
- UL:	1000V		LS acc. to IEC 61034-2
- U <sub>0</sub> /U:	600/1000V		HF acc. to IEC 60754-1
<b>Test voltage:</b>	4000V		Corrosiveness acc. to IEC 60754-2
<b>Conductor stranding:</b>	Class 5 fine wire		FR acc. to IEC 60332-3-22/24/25

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® CLASSIC 130 H BK

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
<b>18 AWG (1.0 mm<sup>2</sup>)</b>						
1123410	2	0.339	8.6	13	72	S2111
1123411	3	0.355	9.0	19	83	S2111
1123412	4	0.378	9.6	26	97	S2113
1123413	5	0.410	10.4	32	112	S2113
1123414	7	0.437	11.1	45	138	S2113
1123415	12	0.552	14.0	77	211	S2221
1123416	18	0.634	16.1	116	288	S2121
1123417	25	0.733	18.6	161	382	S2229
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
1123418	2	0.378	9.6	19	92	S2113
1123419	3	0.398	10.1	29	108	S2113
1123420	4	0.426	10.8	39	128	S2113
1123421	5	0.461	11.7	48	149	S2113
1123422	7	0.496	12.6	68	185	S2116
1123423	12	0.634	16.1	116	287	S2121
1123424	18	0.741	18.8	174	401	S2229
1123425	25	0.855	21.7	242	537	S2129
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
1123426	2	0.426	10.8	32	124	S2113
1123427	3	0.445	11.3	48	147	S2113
1123428	4	0.481	12.2	65	176	S2116

\* 2c cable does not include ground

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
1123429	5	0.524	13.3	81	206	S2116
1123430	7	0.567	14.4	113	262	S2221
1123431	12	0.737	18.7	194	419	S2229
1123432	18	0.867	22.0	290	591	S2129
1123433	25	1.017	25.8	403	814	S2236
<b>12 AWG (4 mm<sup>2</sup>)</b>						
1123434	3	0.496	12.6	77	195	S2116
1123435	4	0.540	13.7	103	236	S2116
1123436	5	0.587	14.9	129	280	S2221
<b>10 AWG (6 mm<sup>2</sup>)</b>						
1123437	3	0.548	13.9	116	253	S2221
1123438	4	0.595	15.1	155	311	S2121
1123439	5	0.662	16.8	194	376	S2121
<b>8 AWG (10 mm<sup>2</sup>)</b>						
1123440	4	0.737	18.7	258	509	S2229
1123441	5	0.816	20.7	323	615	S2129
<b>6 AWG (16 mm<sup>2</sup>)</b>						
1123442	4	0.839	21.3	413	719	S2129
1123443	5	0.930	23.6	516	871	S2129
<b>4 AWG (25 mm<sup>2</sup>)</b>						
1123444	4	1.032	26.2	645	1096	S2242

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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>18 AWG (1.0 mm<sup>2</sup>)</b>						
1123460	2	0.370	9.4	27	81	53112230
1123461	3	0.386	9.8	34	94	53112230
1123462	4	0.410	10.4	42	111	53112230
1123463	5	0.441	11.2	51	128	53112230
1123464	6	0.469	11.9	65	155	53112240
1123465	12	0.591	15.0	114	242	53112250
1123466	18	0.682	17.3	160	332	53112250
1123467	25	0.780	19.8	212	432	53112260
<b>16 AWG (1.5 mm<sup>2</sup>)</b>						
1123468	2	0.410	10.4	36	100	53112230
1123469	3	0.429	10.9	47	119	53112230
1123470	4	0.457	11.6	58	140	53112230
1123471	5	0.493	12.5	70	163	53112240
1123472	7	0.528	13.4	92	202	53112240
1123473	12	0.682	17.3	160	327	53112250
1123474	18	0.796	20.2	239	464	53112260
1123475	25	0.910	23.1	319	614	53112260
<b>14 AWG (2.5 mm<sup>2</sup>)</b>						
1123476	2	0.457	11.6	53	132	53112230
1123477	3	0.477	12.1	71	163	53112240
1123478	4	0.512	13.0	90	197	53112240

\* 2c cable does not include ground

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
1123479	5	0.556	14.1	106	230	53112250
1123480	7	0.607	15.4	151	310	53112250
1123481	12	0.792	20.1	258	482	53112260
1123482	18	0.922	23.4	369	679	53112260
1123483	25	1.080	27.4	512	921	53112270
<b>12 AWG (4 mm<sup>2</sup>)</b>						
1123484	3	0.528	13.4	113	220	53112240
1123485	4	0.579	14.7	142	268	53112250
1123486	5	0.626	15.9	168	317	53112250
<b>10 AWG (6 mm<sup>2</sup>)</b>						
1123487	3	0.587	14.9	156	278	53112250
1123488	4	0.634	16.1	201	349	53112250
1123489	5	0.701	17.8	239	408	53112260
<b>8 AWG (10 mm<sup>2</sup>)</b>						
1123490	4	0.792	20.1	330	562	53112260
1123491	5	0.863	21.9	394	669	53112260
<b>6 AWG (16 mm<sup>2</sup>)</b>						
1123492	4	0.887	22.5	494	778	53112260
1123493	5	0.985	25.0	597	946	53112270
<b>4 AWG (25 mm<sup>2</sup>)</b>						
1123494	4	1.095	27.8	757	1131	53112270

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.