

FLEXIBLE CONTROL CABLE

Quick Select Chart

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Flexible UL/CSA PVC Control Cable

ÖLFLEX® 190/190 CY

Extremely Oil-Resistant Flexible Control Cable with UL MTW; Unshielded & Shielded

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ÖLFLEX® 150 QUATTRO/150 CY QUATTRO

Oil-Resistant Flexible Control Cable with International Approvals; Unshielded & Shielded

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ÖLFLEX® CONTROL TM/TM CY

Extremely Oil-Resistant Flexible Control Cable with UL MTW & UL/CSA TC; Unshielded & Shielded

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Flexible UL/CSA PUR or TPE Control Cable

ÖLFLEX® 490 P/490 CP

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

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ÖLFLEX® 590 P/590 CP

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

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ÖLFLEX® POWER MULTI

Flexible & Oil-Resistant Tray Cable & STOOW Extra Hard Service Cordage

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Flexible European PVC or PUR Control Cable

ÖLFLEX® CLASSIC 100/100 CY

Flexible Power & Control Cable; Color-Coded; Unshielded & Shielded

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ÖLFLEX® CLASSIC 100 SY

Flexible Power & Control Cable; Color-Coded; Steel Braid

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ÖLFLEX® SMART 108

Flexible Power & Control Cable; Number-Coded; Unshielded

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ÖLFLEX® CLASSIC 110/110 CY

Flexible Power & Control Cable; Number-Coded; Unshielded & Shielded

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ÖLFLEX® CLASSIC 110 SY

Flexible Power & Control Cable; Number-Coded; Steel Braid

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ÖLFLEX® PUR S 17/PUR S 27

Flexible Cold-Resistant Polyurethane Control Cable with Superfine Conductor Stranding

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Flexible Halogen-Free Control Cable

ÖLFLEX® CLASSIC 110 H/110 CH

Oil-Resistant, Halogen-free Control Cable; LSZH (Low Smoke, Zero Halogen); Unshielded & Shielded

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Flexible Control Cable in Other Catalog Sections

ÖLFLEX® TRAY II/TRAY II CY

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ÖLFLEX® SDP TC

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UNITRONIC® 300/300 S

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<HAR> Cordage

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ÖLFLEX®

Flexible Control Cable



Quick Select Chart

Product	Insulation	Jacket	AWG Range	Conductor Counts
ÖLFLEX® 190	PVC	PVC	20 - 2 AWG	2, 3, 4, 5, 7, 9, 12, 18, 25, 34, 41, 50
ÖLFLEX® 190 CY	PVC	PVC	20 - 2 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® 150 QUATTRO	PVC	PVC	20 - 14 AWG	3, 4, 5, 7, 12, 18, 25
ÖLFLEX® 150 CY QUATTRO	PVC	PVC	18 - 14 AWG	3, 4, 5, 7
ÖLFLEX® CONTROL TM	PVC/nylon	PVC	18 - 10 AWG	3, 4, 5, 7, 9, 12, 18, 19, 25
ÖLFLEX® CONTROL TM CY	PVC/nylon	PVC	18 - 10 AWG	3, 4, 5, 7, 9, 12, 18, 19, 25
ÖLFLEX® CLASSIC 100	PVC	PVC	20 AWG - 350 KCMIL	2, 3, 4, 5
ÖLFLEX® CLASSIC 100 CY	PVC	PVC	20 AWG - 350 KCMIL	2, 3, 4, 5
ÖLFLEX® CLASSIC 100 SY	PVC	PVC	18 - 2 AWG	2, 3, 4, 5
ÖLFLEX® SMART108	PVC	PVC	20 - 14 AWG	2, 3, 4, 5, 7
ÖLFLEX® CLASSIC 110	PVC	PVC	20 - 2 AWG	2, 3, 4, 5, 7, 12, 18, 25, 34, 41, 50, 52, 65, 80, 100
ÖLFLEX® CLASSIC 110 CY	PVC	PVC	20 - 6 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 110 SY	PVC	PVC	20 - 6 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 110 H	Halogen-free	Halogen-free polymer	20 - 10 AWG	3, 4, 5, 7, 12, 18, 25
ÖLFLEX® CLASSIC 110 CH	Halogen-free	Halogen-free polymer	20 - 3/0 AWG	3, 4, 5, 7, 12, 18, 25
ÖLFLEX® 490 P	PVC	PUR	20 - 14 AWG	2, 3, 4, 5, 7, 9, 12, 18, 25
ÖLFLEX® 490 CP	PVC	PUR	20 - 14 AWG	2, 3, 4, 5, 7, 9, 12, 18, 25
ÖLFLEX® 590 P	TPE	PUR	18 - 10 AWG	2, 3, 4, 5, 7
ÖLFLEX® 590 CP	TPE	PUR	18 - 10 AWG	2, 3, 4, 5
ÖLFLEX® PUR S 17/ PUR S 27	PUR	PUR	20 - 16 AWG	2, 3, 4, 5, 7, 12, 18, 25
ÖLFLEX® POWER MULTI	PVC	Elastomeric alloy	18 - 8 AWG	3, 4, 5, 7, 12, 18, 25

Approvals	Low Temp.	High Temp.	Voltage	Shield	Oil	Flame	Mechanical	Page
	-40°C	90°C	600V	No	★★★★	★★	★★	26
	-40°C	90°C	600V	Yes	★★★★	★★	★★	26
	-40°C	90°C	600V	No	★★★★	★★	★★	28
	-40°C	90°C	600V	Yes	★★★★	★★	★★	28
	-40°C	90°C	1000V	No	★★★	★★★★	★★★★	30
	-40°C	90°C	1000V	Yes	★★★	★★★★	★★★★	30
	-40°C	80°C	500 - 750V	No	★	★★	★	37
	-40°C	80°C	500 - 750V	Yes	★	★★	★	37
	-40°C	80°C	500 - 750V	Yes (Steel)	★	★★	★	39
	-40°C	80°C	500V	No	—	★★	★	40
	-40°C	80°C	500V	No	★	★★	★	41
	-40°C	80°C	500V	Yes	★	★★	★	41
	-40°C	80°C	500V	Yes (Steel)	★	★★	★	43
	-40°C	80°C	500V	No	★★★★	★★★★	★	45
	-40°C	80°C	500V	Yes	★★★★	★★★★	★	45
	-20°C	80°C	600V	No	★★★★★	★★	★★★★★	32
	-20°C	80°C	600V	Yes	★★★★★	★★	★★★★★	32
	-50°C	80°C	600V	No	★★★★★	★★	★★★★★	34
	-50°C	80°C	600V	Yes	★★★★★	★★	★★★★★	34
	-40°C	80°C	300V	No	★★★★★	★	★★★★★	44
	-40°C	90°C	1000V	No	★★★	★★★★	★★★★	36

Rating	Oil Resistance	Flame Resistance	Mechanical Properties
★★★★★ Ultimate	OR-05	FR-05	MP-05
★★★★ Excellent	OR-04	FR-04	MP-04
★★★ Superior	OR-03	FR-03	MP-03
★★ Above Average	OR-02	FR-02	MP-02
★ Average	OR-01	FR-01	MP-01

ÖLFLEX® 190/190 CY

Extremely Oil-Resistant Flexible Control Cable with UL MTW; Unshielded & Shielded



ÖLFLEX® 190 is a multi-conductor cable with a highly oil-, coolant-, and solvent-resistant PVC 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 CY is a shielded version for EMI and RFI protection.

Unshielded Construction

Conductors: Finely stranded bare copper
Insulation: Specially blended PVC/nylon
Jacket: Specially formulated PVC; gray

Shielded Construction

Conductors: Finely stranded bare copper
Insulation: Specially blended PVC/nylon
Shielding: PVC inner jacket; tinned copper braid (85% coverage)
Jacket: Specially formulated PVC; gray

Recommended Applications

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

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
- 20+ years of reliable performance

Approvals



Cable Attributes, see page 659

OR-04	FR-02	FL-02	MP-02
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® CONTROL TM
- ÖLFLEX® 150 QUATTRO

Complete the Installation

SKINTOP® Strain Relief: page 502	EPIC® Connectors: page 278
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Technical Data

<p>Minimum Bend Radius: - for installation: 4 x cable diameter - shielded: 6 x cable diameter</p> <p>Temperature Range: - for stationary use: -40°C to +90°C - for flexible use: -5°C to +90°C</p> <p>Nominal Voltage: - UL MTW/CSA AWM: 600V - UL AWM: 1000V</p> <p>Test Voltage: 2000V</p> <p>Conductor Stranding: - 20 - 6 AWG: Class 5 fine wire* - 4 AWG and larger: - MTW: Class K fine wire - AWM only: Class 5 fine wire</p>	<p>Color Code: Black with white numbers, plus green/yellow ground</p> <p>Approvals: UL: MTW per UL 1063 (P/Ns with * are not MTW) AWM 2587 & 21098 (Oil) Attributes: UL Oil Res I/II NFPA 79 2012 Canada: CSA AWM I/II A/B FT1 CSA C22.2 210.2 Additional: Passes Impact and Crush tests per UL 1277, excluding 20 AWG CE & RoHS</p>
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* 18 AWG meets only the Class 5 cross section and DC resistance

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ÖLFLEX® 190

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)							621641*	41	0.988	25.1	407	768	S1136
602002**	2	0.253	6.4	7	40	S1109	601650	50	1.192	30.3	437	1020	S1136
602003	3	0.265	6.7	10	42	S1109	621650*	50	1.079	27.4	504	911	S1136
602004	4	0.285	7.2	13	51	S1111	601661	61	1.265	32.1	530	1180	S1248
602005	5	0.308	7.8	17	60	S1111	621661*	61	1.142	29.0	591	1036	S1136
602007	7	0.331	8.4	23	82	S1111	14 AWG (2.50 mm²)						
602009	9	0.409	10.4	30	100	S1113	601402**	2	0.337	8.6	33	88	S1111
602012	12	0.421	10.7	39	168	S1113	601403	3	0.356	9.0	49	93	S1111
602018	18	0.487	12.4	59	198	S1116	601404	4	0.386	9.8	65	121	S1113
602025	25	0.586	14.9	82	242	S1121	601405	5	0.421	10.7	81	145	S1113
18 AWG (1.00 mm²)							601407	7	0.457	11.6	113	192	S1113
601802**	2	0.277	7.0	13	42	S1111	601409	9	0.609	15.5	145	317	S1121
601803	3	0.291	7.4	20	44	S1111	601412	12	0.628	16.0	194	401	S1121
601803NG	3	0.291	7.4	20	44	S1111	601418	18	0.729	18.5	290	575	S1129
601804	4	0.314	8.0	26	55	S1111	601425	25	0.872	22.1	404	860	S1129
601805	5	0.340	8.6	33	64	S1111	12 AWG (4 mm²)						
601807	7	0.367	9.3	46	84	S1111	601203	3	0.417	10.6	78	156	S1113
601809	9	0.454	11.5	59	119	S1113	601204	4	0.454	11.5	104	198	S1113
601812	12	0.471	12.0	79	141	S1116	601205	5	0.497	12.6	129	238	S1116
601818	18	0.579	14.7	118	207	S1121	601207	7	0.573	14.6	181	363	S1121
601825	25	0.656	16.7	164	278	S1121	601211	11	0.745	18.9	284	397	S1129
601834	34	0.937	23.8	206	575	S1129	10 AWG (6 mm²)						
621834*	34	0.783	19.9	232	475	S1129	601003	3	0.492	12.5	116	223	S1116
601841	41	1.041	26.4	250	680	S1136	601004	4	0.570	14.5	155	267	S1121
621841*	41	0.846	21.5	289	541	S1129	601005	5	0.623	15.8	194	322	S1121
601850	50	1.092	27.7	305	825	S1136	8 AWG (10 mm²)						
621850*	50	0.961	24.4	336	697	S1129	600804	4	0.695	17.7	258	436	S1129
16 AWG (1.50 mm²)							600805	5	0.764	19.4	323	525	S1129
601602**	2	0.303	7.7	20	57	S1111	6 AWG (16 mm²)						
601603	3	0.319	8.1	29	62	S1111	600604	4	0.870	22.1	413	699	S1129
601604	4	0.345	8.8	39	75	S1111	600605	5	0.955	24.3	516	842	S1129
601605	5	0.375	9.5	49	90	S1111	4 AWG (25 mm²)						
601607	7	0.406	10.3	68	121	S1113	600404	4	1.118	28.4	515	950	S1136
601609	9	0.509	12.9	88	174	S1116	620404*	4	0.976	24.8	646	863	S1136
601612	12	0.557	14.1	112	209	S1121	600405	5	1.228	31.2	645	1200	S1248
601618	18	0.644	16.4	175	298	S1121	620405*	5	1.094	27.8	807	1105	S1136
601625	25	0.733	18.6	242	417	S1129	2 AWG (35 mm²)						
601634	34	1.020	25.9	296	760	S1136	600204	4	1.292	32.8	876	1405	S1248
621634*	34	0.925	23.5	339	652	S1129	620204*	4	1.091	27.7	904	1165	S1136
601641	41	1.101	28.0	357	875	S1136	600205	5	1.422	36.1	1129	1752	S1142

ÖLFLEX® 190 CY

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)							14 AWG (2.50 mm²)						
602002CY**	2	0.329	8.4	25	66	53112220	601403CY	3	0.432	11.0	75	148	53112230
602003CY	3	0.341	8.7	30	82	53112220	601404CY	4	0.462	11.7	93	181	53112240
602004CY	4	0.361	9.2	35	88	53112220	601405CY	5	0.497	12.6	115	218	53112240
602005CY	5	0.384	9.8	41	99	53112230	601407CY	7	0.572	14.5	147	282	53112250
602007CY	7	0.407	10.3	51	112	53112230	601412CY	12	0.736	18.7	253	516	53112260
602012CY	12	0.497	12.6	73	181	53112240	601418CY	18	0.905	23.0	361	741	53112260
602025CY	25	0.678	17.2	139	295	53112260	12 AWG (4 mm²)						
18 AWG (1.00 mm²)							601203CY	3	0.500	12.7	124	227	53112240
601802CY**	2	0.353	9.0	28	75	53112220	601204CY	4	0.585	14.9	154	311	53112250
601803CY	3	0.367	9.3	40	82	53112230	601205CY	5	0.628	16.0	180	359	53112250
601804CY	4	0.390	9.9	48	106	53112230	601207CY	7	0.672	17.1	234	494	53112260
601805CY	5	0.416	10.6	57	123	53112230	10 AWG (6 mm²)						
601807CY	7	0.443	11.3	94	139	53112240	601003CY	3	0.623	15.8	164	311	53112250
601812CY	12	0.586	14.9	153	229	53112250	601004CY	4	0.669	17.0	208	386	53112250
601818CY	18	0.678	17.2	216	317	53112260	601005CY	5	0.731	18.6	255	474	53112260
601825CY	25	0.764	19.4	226	436	53112260	601007CY	7	0.786	20.0	335	639	53112260
16 AWG (1.50 mm²)							8 AWG (10 mm²)						
601603CY	3	0.395	10.0	52	115	53112230	600804CY	4	0.803	20.4	324	574	53112260
601604CY	4	0.421	10.7	66	128	53112230	6 AWG (16 mm²)						
601605CY	5	0.451	11.5	76	150	53112240	600604CY	4	0.994	25.2	494	1115	53112270
601607CY	7	0.482	12.2	98	181	53112240	4 AWG (25 mm²)						
601612CY	12	0.656	16.7	167	311	53112250	620404CY*	4	1.133	28.8	777	1153	53112270
601618CY	18	0.743	18.9	235	456	53112260	2 AWG (35 mm²)						
601625CY	25	0.897	22.8	313	639	53112260	620204CY*	4	1.247	31.7	1051	1987	53112270

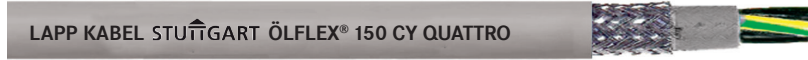
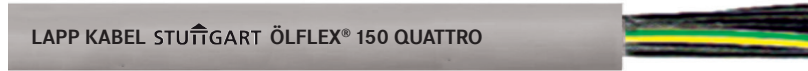
* Part numbers are not MTW.

** 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.

ÖLFLEX® 150 QUATTRO/150 CY QUATTRO

Oil-Resistant Flexible Control Cable with International Approvals; Unshielded & Shielded



ÖLFLEX® 150 QUATTRO 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 QUATTRO is extremely flexible for easier installation and has outstanding oil, coolant, and chemical resistance. ÖLFLEX® 150 CY QUATTRO is a shielded version with an inner PVC jacket and tinned copper braid shield.

Unshielded Construction

Conductors: Finely stranded bare copper

Insulation: Blended PVC

Jacket: Specially formulated PVC; gray

Shielded Construction

Conductors: Finely stranded bare copper

Insulation: Blended PVC

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

Jacket: Specially formulated PVC; gray

Recommended Applications

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

Approvals



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

Cable Attributes, see page 659

OR-04	FR-02	FL-01	MP-02
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® 190/190 CY

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data	
Minimum Bend Radius:	<ul style="list-style-type: none"> - for installation: 4 x cable diameter - shielded: 6 x cable diameter
Temperature Range:	<ul style="list-style-type: none"> - for stationary use: <ul style="list-style-type: none"> - UL/CSA: -40°C to +90°C - <HAR>: -40°C to +70°C - for flexible use: <ul style="list-style-type: none"> - UL/CSA: -5°C to +90°C - <HAR>: -5°C to +70°C
Nominal Voltage:	<ul style="list-style-type: none"> - UL/CSA: 600V - <HAR>: 300/500V
Test Voltage:	3000V
Conductor Stranding:	Class 5 fine wire
Color Code:	Black with white numbers, plus green/yellow ground
Approvals:	<ul style="list-style-type: none"> UL: AWM 2587 & 21098 (Oil) Attributes: UL Oil Res I/II Canada: CSA AWM I/II A/B FT1 Additional: <HAR> H05VV5-F (non-shielded) <HAR> H05VVC4V5-K (shielded) CE & RoHS

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ÖLFLEX® 150 QUATTRO

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)						
0015003	3	0.244	6.2	10	42	S1107	0015303	3	0.319	8.1	29	74	S1111
0015004	4	0.268	6.8	13	46	S1109	0015304	4	0.350	8.9	39	97	S1111
0015005	5	0.291	7.4	17	59	S1111	0015305	5	0.394	10.0	49	113	S1113
0015007	7	0.354	9.0	23	80	S1111	0015307	7	0.484	12.3	68	151	S1116
0015012	12	0.437	11.1	39	133	S1113	0015312	12	0.594	15.1	117	243	S1121
0015018	18	0.559	14.2	58	220	S1121	0015318	18	0.701	17.8	175	348	S1129
0015025	25	0.630	16.0	81	256	S1121	0015325	25	0.846	21.5	242	491	S1129
19 AWG (0.75 mm²)							14 AWG (2.50 mm²)						
0015103	3	0.264	6.7	15	51	S1109	0015403	3	0.390	9.9	49	114	S1113
0015104	4	0.283	7.2	20	56	S1111	0015404	4	0.421	10.7	65	141	S1113
0015105	5	0.319	8.1	25	76	S1111	0015405	5	0.476	12.1	81	173	S1116
0015107	7	0.390	9.9	34	97	S1113	0015407	7	0.571	14.5	113	229	S1121
0015112	12	0.472	12.0	58	165	S1116	0015412	12	0.697	17.7	194	390	S1129
0015118	18	0.567	14.4	87	22	S1121	0015418	18	0.843	21.4	291	571	S1129
0015125	25	0.673	17.1	121	313	S1121	0015425	25	1.016	25.8	404	784	S1136
18 AWG (1.00 mm²)													
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							

ÖLFLEX® 150 CY QUATTRO

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
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
0015703	3	0.374	9.5	52	97	53112230	0015903	3	0.465	11.8	81	164	53112240
0015704	4	0.398	10.1	54	121	53112230	0015904	4	0.516	13.1	115	198	53112240
0015705	5	0.437	11.1	64	136	53112230	0015905	5	0.575	14.6	138	245	53112250
0015707	7	0.516	13.1	80	183	53112240	0015907	7	0.681	17.3	162	322	53112260
16 AWG (1.50 mm²)													
0015803	3	0.413	10.5	57	107	53112230							
0015804	4	0.445	11.3	64	142	53112240							
0015805	5	0.496	12.6	82	162	53112240							
0015807	7	0.587	14.9	97	205	53112250							

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.

ÖLFLEX® CONTROL TM/TM CY

Extremely Oil-Resistant Flexible Control Cable with UL MTW & UL/CSA TC; Unshielded & Shielded



ÖLFLEX® CONTROL TM is a multi-conductor cable designed for use on machine tool equipment and other industrial machinery conforming to NFPA 79 2012 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 2012

Approvals



Unshielded Construction

Conductors: Finely stranded bare copper
Insulation: Specially blended PVC/nylon
Jacket: Specially formulated thermoplastic polymer; gray

Shielded Construction

Conductors: Finely stranded bare copper
Insulation: Specially blended PVC/nylon
Shielding: Foil tape and tinned copper braid (85% coverage)
Jacket: Specially formulated thermoplastic polymer; gray

Application Advantage

- Industrial grade PVC jacket (Oil Res I/II)
- Conforms to NFPA 79 2012 standards for wiring machinery (UL MTW)
- 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

Cable Attributes, see page 659			
OR-03	FR-03	WT-02	MP-03
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® 190/190 CY
- ÖLFLEX® TRAY II/TRAY II CY

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data:

<input checked="" type="checkbox"/> Minimum Bend Radius: - for installation: 4 x cable diameter - shielded: 6 x cable diameter	<input checked="" type="checkbox"/> Approvals: UL: TC-ER per UL 1277 MTW per UL 1063 WTTC per UL 2277 Bus Drop Cable (14 AWG & larger; 3c & 4c only) AWM 2587 & 21098 (Oil) Attributes: UL Oil Res I/II 75°C Wet; 90°C Dry Sunlight Resistant Direct Burial NFPA 79 2012 Bus Drop Approval NEC: Class 1, Division 2 per NEC Article 501 Canada: c(UL) CIC/TC FT4 CSA AWM I/II A/B FT4 Additional: Torsion rated for Wind Market (± 90°/m) & (± 150°/m) Passes Impact and Crush test per UL 1277 (excluding 20 AWG) CE & RoHS
<input checked="" type="checkbox"/> Temperature Range: - UL/CSA TC: -25°C to +90°C - for stationary use: -40°C to +105°C - for flexible use: -25°C to +90°C	
<input checked="" type="checkbox"/> Nominal Voltage: - UL/CSA TC: 600V - UL WTTC: 1000V	
<input checked="" type="checkbox"/> Test Voltage: 2000V	
<input checked="" type="checkbox"/> Conductor Stranding: Class 5 fine wire*	
<input checked="" type="checkbox"/> Color Code: Black with white numbers, plus green/yellow ground	

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

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.

ÖLFLEX® CONTROL TM

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
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
281803	3	0.291	7.4	20	55	S 1111	281403*	3	0.356	9.0	49	88	S 1111
281804	4	0.315	8.0	26	64	S 1111	281404*	4	0.386	9.8	65	106	S 1113
281805	5	0.340	8.6	33	75	S 1111	281405	5	0.421	10.7	81	123	S 1113
281807	7	0.367	9.3	46	97	S 1111	281407	7	0.457	11.6	113	163	S 1113
281809	9	0.423	10.7	59	108	S 1113	281409	9	0.563	14.3	146	218	S 1121
281812	12	0.471	12.0	79	165	S 1116	281412	12	0.628	16.0	194	298	S 1121
281818	18	0.579	14.7	118	245	S 1121	281419	19	0.729	18.5	307	450	S 1129
281819	19	0.579	14.7	124	262	S 1121	281425	25	0.872	22.1	404	569	S 1129
281825	25	0.656	16.7	164	311	S 1121	12 AWG (4 mm²)						
16 AWG (1.50 mm²)							10 AWG (6 mm²)						
281603	3	0.319	8.1	29	66	S 1111	281203*	3	0.417	10.6	78	110	S 1113
281604	4	0.345	8.8	39	79	S 1111	281204*	4	0.454	11.5	104	148	S 1113
281605	5	0.375	9.5	48	95	S 1111	281205	5	0.497	12.6	129	181	S 1116
281607	7	0.406	10.3	68	123	S 1113	281207	7	0.573	14.6	181	324	S 1121
281609	9	0.470	11.9	88	165	S 1116	281209	9	0.665	16.9	233	359	S 1121
281612	12	0.557	14.1	116	214	S 1121	10 AWG (6 mm²)						
281618	18	0.644	16.4	175	289	S 1121	281003*	3	0.492	12.5	117	194	S 1116
281619	19	0.644	16.4	184	293	S 1121	281004*	4	0.570	14.5	155	256	S 1121
281625	25	0.733	18.6	242	311	S 1129	281005	5	0.623	15.8	194	306	S 1121
							281007	7	0.678	17.2	271	430	S 1121
							281009	9	0.791	20.1	349	549	S 1129

* Cable meets UL Bus Drop Approval.

ÖLFLEX® CONTROL TM CY

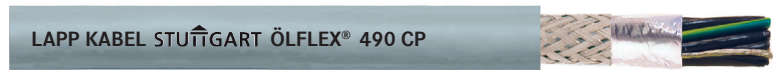
Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
281803CY	3	0.316	8.0	37	79	53112220	281403CY*	3	0.381	9.7	71	121	53112230
281804CY	4	0.339	8.6	41	93	53112220	281404CY*	4	0.411	10.4	91	150	53112230
281805CY	5	0.365	9.3	55	99	53112220	281405CY	5	0.452	11.5	108	181	53112240
281807CY	7	0.392	10.0	69	130	53112230	281407CY	7	0.488	12.4	143	220	53112240
281812CY	12	0.502	12.8	109	223	53112240	281412CY	12	0.659	16.7	246	399	53112250
281819CY	19	0.610	15.5	172	295	53112250	281419CY	19	0.760	19.3	369	527	53112260
281825CY	25	0.687	17.4	222	386	53112260	281425CY	25	0.903	22.9	474	705	53112260
16 AWG (1.50 mm²)							12 AWG (4 mm²)						
281603CY	3	0.344	8.7	44	97	53112220	281203CY*	3	0.448	11.4	104	161	53112240
281604CY	4	0.370	9.4	60	117	53112230	281204CY*	4	0.485	12.3	133	212	53112240
281605CY	5	0.400	10.2	72	128	53112230	281205CY	5	0.560	14.2	163	260	53112250
281607CY	7	0.437	11.1	94	165	53112230	281207CY	7	0.604	15.3	217	452	53112250
281612CY	12	0.588	14.9	151	287	53112250	10 AWG (6 mm²)						
281618CY	18	0.675	17.1	227	326	53112260	281003CY*	3	0.555	14.1	150	271	53112250
281625CY	25	0.764	19.4	305	476	53112260	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

* Cable meets UL Bus Drop Approval.

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.

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
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Technical Data	
Minimum Bend Radius:	<ul style="list-style-type: none"> - for installation: 4 x cable diameter - shielded: 6 x cable diameter
Temperature Range:	<ul style="list-style-type: none"> - 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

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.

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	S1107	401602*	2	0.295	7.5	20	53	S1111
402003	3	0.256	6.5	10	40	S1109	401603	3	0.310	7.9	29	64	S1111
402004	4	0.274	7.0	13	46	S1109	401604	4	0.333	8.5	39	77	S1111
402005	5	0.293	7.4	17	53	S1111	401605	5	0.360	9.1	48	90	S1111
402007	7	0.313	8.0	23	66	S1111	401607	7	0.388	9.9	68	115	S1113
402009	9	0.355	9.0	30	82	S1111	401609	9	0.446	11.3	88	141	S1113
402012	12	0.401	10.2	38	106	S1113	401612	12	0.496	12.6	117	179	S1116
402018	18	0.459	11.7	59	139	S1113	401618	18	0.574	14.6	175	253	S1121
402025	25	0.534	13.6	79	176	S1121	401625	25	0.654	16.6	242	335	S1121
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
401802*	2	0.269	6.8	13	44	S1109	401402*	2	0.329	8.4	33	66	S1111
401803	3	0.281	7.1	20	51	S1111	401403	3	0.347	8.8	49	75	S1111
401804	4	0.303	7.7	26	64	S1111	401404	4	0.374	9.5	65	108	S1111
401805	5	0.325	8.3	31	75	S1111	401405	5	0.406	10.3	81	121	S1113
401807	7	0.349	8.9	46	93	S1111	401407	7	0.439	11.2	113	170	S1113
401809	9	0.399	10.1	59	119	S1113	401409	9	0.507	12.9	146	194	S1116
401812	12	0.451	11.5	79	143	S1113	401412	12	0.567	14.4	194	238	S1121
401818	18	0.519	13.2	118	203	S1116	401418	18	0.659	16.7	290	357	S1121
401825	25	0.607	15.4	164	264	S1121	401425	25	0.754	19.2	404	474	S1129

* 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.

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: Yellow polyurethane

Shielded Construction

Conductors: Finely stranded tinned copper

Insulation: TPE

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

Jacket: Yellow polyurethane

Recommended Applications

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

Application Advantage:

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

Approvals



Cable Attributes, see page 659



Similar Cables

- ÖLFLEX® 490 P/490 CP
- ÖLFLEX® FORTIS

Complete the Installation



Technical Data

<p> Minimum Bend Radius: - for installation: 5 x cable diameter - shielded: 8 x cable diameter</p> <p> Temperature Range: - for flexible use: -50°C to +80°C</p> <p> Nominal Voltage: 600V</p> <p> Test Voltage: 2000V</p> <p> Conductor Stranding: Class 5 fine wire*</p>	<p> Color Code: Color-coded per Chart 1, page 695 (#4 conductor is green/yellow)</p> <p> Approvals: UL: AWM 20234 Attributes: Oil Res I/II Sunlight Resistant NFPA 79 2012 Canada: CSA AWM I/II A/B FT 1 Additional: CE & RoHS</p>
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* 18 AWG meets only the Class 5 cross section and DC resistance

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.

ÖLFLEX® 590 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
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)							501204	4	0.447	11.4	96	145	S2113
501602*	2	0.315	8.0	18	51	S2111	10 AWG (6 mm²)						
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 (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
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. 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.

ÖLFLEX® POWER MULTI

Flexible & Oil-Resistant Tray Cable & STOOW Extra Hard Service Cordage

LAPP KABEL STUTTGART ÖLFLEX® POWER MULTI

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



Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended 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

Cable Attributes, see page 659



Similar Cables

- ÖLFLEX® TRAY II/TRAY II CY
- ÖLFLEX® POWER IX

Complete the Installation



Technical Data

Minimum Bend Radius: - for installation: 4 x cable diameter	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 2015 NEC: Class 1 Division 1 per NEC Articles 501.140 Class 1 Division 2 per NEC Article 501 Canada: c(UL) CIC/TC FT4 c(UL) STOOW CSA AWM I/II A/B FT4 Additional: CE & RoHS
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*	
Color Code: - 3c: Color & number-coded - 4c: Black, white, green/yellow - 5c: Black, white, red, green/yellow - 7c & higher: Black, white, red, brown, green/yellow Black with white numbers, plus green/yellow ground	* 18 AWG meets only the Class 5 cross section and DC resistance

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches)	Nominal Outer Diameter (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)	Nominal Outer Diameter (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
18 AWG (1.00 mm²)							14 AWG (2.50 mm²)						
611803	3	0.371	9.4	20	62	S2111	611403	3	0.541	13.8	49	93	S2121
611804	4	0.399	10.1	26	71	S2113	611404	4	0.584	14.8	65	112	S2121
611805	5	0.471	12.0	33	82	S2116	611405	5	0.663	16.8	81	132	S2121
16 AWG (1.50 mm²)							12 AWG (4 mm²)						
611603	3	0.399	10.1	29	75	S2113	611203	3	0.631	16.0	78	126	S2121
611604	4	0.430	10.9	39	88	S2113	611204	4	0.681	17.3	104	156	S2129
611605	5	0.507	12.9	49	104	S2116	611205	5	0.739	18.8	129	192	S2129
611607	7	0.544	13.8	68	132	S2121	10 AWG (6 mm²)						
611612	12	0.719	18.3	117	225	S2129	611003	3	0.676	17.2	117	229	S2121
611618	18	0.824	20.9	175	295	S2129	611004	4	0.732	18.6	155	271	S2129
611625	25	0.966	24.5	242	401	S2136	8 AWG (10 mm²)						
							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. 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.

ÖLFLEX® CLASSIC 100/100 CY

Flexible Power and Control Cable; Color-Coded; Unshielded & Shielded



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.

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

Recommended Applications

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

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

Approvals



Cable Attributes, see page 659			
OR-01	FR-02	FL-01	MP-01
OIL	FLAME	MOTION	MECHANICAL

Similar Cables
<ul style="list-style-type: none"> • ÖLFLEX® CLASSIC 110 • ÖLFLEX® CLASSIC 110 CY

Complete the Installation	
SKINTOP® Strain Relief: page 502	EPIC® Connectors: page 278

Technical Data

<p> Minimum Bend Radius:</p> <ul style="list-style-type: none"> - for installation: 4 x cable diameter - shielded: 6 x cable diameter 	<p> Test Voltage: 4000V</p>
<p> Temperature Range:</p> <ul style="list-style-type: none"> - for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C 	<p> Conductor Stranding: Class 5 fine wire</p>
<p> Nominal Voltage:</p> <ul style="list-style-type: none"> - ≤ 16 AWG: 300/500V - ≥ 14 AWG: 450/750 V 	<p> Color Code: VDE 0293-308: Chart 6, page 696</p>
	<p> Approvals: Based on VDE specifications CE & RoHS</p>

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.

ÖLFLEX® CLASSIC 100

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)						8 AWG (10 mm²)					
00100004*	2	0.189 4.8	6	24	S1107	0010301	3	0.626 15.9	194	342	S1121
00100014	3	0.201 5.1	10	28	S1107	00101093	4	0.693 17.6	258	437	S1129
00100024	4	0.224 5.7	13	36	S1107	00101103	5	0.776 19.7	323	532	S1129
00100034	5	0.244 6.2	16	42	S1107	6 AWG (16 mm²)					
18 AWG (1.00 mm²)						0010302	3	0.720 18.3	310	489	S1129
00100414*	2	0.224 5.7	13	36	S1107	00101093	4	0.803 20.4	413	730	S1129
00100424	3	0.236 6.0	19	44	S1107	00101133	5	0.898 22.8	516	751	S1129
00100434	4	0.256 6.5	26	53	S1109	4 AWG (25 mm²)					
00100444	5	0.280 7.1	32	63	S1111	0010303	3	0.906 23.0	484	932	S1129
16 AWG (1.50 mm²)						00101153	4	1.000 25.4	645	1063	S1136
00100634*	2	0.248 6.3	19	46	S1109	00101163	5	1.122 28.5	806	1190	S1136
00100644	3	0.264 6.7	29	56	S1109	2 AWG (35 mm²)					
00100654	4	0.283 7.2	39	70	S1111	0010304	3	1.008 25.6	677	1187	S1136
00100664	5	0.319 8.1	48	86	S1111	00101173	4	1.122 28.5	903	1416	S1136
14 AWG (2.50 mm²)						00101183	5	1.256 31.9	1129	1771	S1248
0010086*	2	0.350 8.9	32	86	S1111	1 AWG (50 mm²)					
0010087	3	0.378 9.6	48	109	S1113	0010305	3	1.220 31.0	968	1718	S1248
00100883	4	0.421 10.7	65	136	S1113	00101193	4	1.358 34.5	1290	1978	S1248
00100893	5	0.465 11.8	81	163	S1116	2/0 AWG (70 mm²)					
12 AWG (4 mm²)						0010306	3	1.390 35.3	1355	2139	S1142
0010100*	2	0.417 10.6	52	126	S1113	00101203	4	1.551 39.4	1806	2750	S1148
0010210	3	0.449 11.4	77	164	S1113	3/0 AWG (95 mm²)					
00101013	4	0.500 12.7	103	200	S1116	0010307	3	1.626 41.3	1839	3142	S1148
00101023	5	0.547 13.9	129	239	S1121	00101213	4	1.803 45.8	2451	3534	53112080*
10 AWG (6 mm²)						4/0 AWG (120 mm²)					
0010105	3	0.496 12.6	116	214	S1116	0010308	3	1.874 47.6	2322	3776	53112080*
00101063	4	0.543 13.8	155	265	S1121	00103093	4	2.091 53.1	3096	4694	53112080*
00101073	5	0.614 15.6	194	329	S1121	350 KCMIL (185 mm²)					
						00103123	4	2.472 62.8	4774	5578	53112510*

* 2c cable does not include ground.

♦ SKINTOP® MS: nickel-plated brass with metric thread.

ÖLFLEX® CLASSIC 100 CY

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)						8 AWG (10 mm²)					
0035001*	2	0.276 7.0	28	50	53112210	00350213	4	0.831 21.1	375	566	53112260
0035002	3	0.287 7.3	31	56	53112220	00352903	5	0.909 23.1	480	675	53112260
00350033	4	0.311 7.9	37	67	53112220	6 AWG (16 mm²)					
00352013	5	0.331 8.4	44	75	53112220	00350223	4	0.941 23.9	540	782	53112260
18 AWG (1.00 mm²)						00350153	5	1.055 26.8	706	1216	53112270
0035220*	2	0.311 7.9	38	66	53112220	4 AWG (25 mm²)					
0035221	3	0.323 8.2	44	75	53112220	00350233	4	1.157 29.4	866	1279	53112270
00352223	4	0.343 8.7	52	87	53112220	00350243	5	1.283 32.6	972	1595	53112670†
00352233	5	0.374 9.5	60	103	53112230	2 AWG (35 mm²)					
16 AWG (1.50 mm²)						00350253	4	1.276 32.4	1138	1673	53112670†
0035000*	2	0.390 9.9	44	89	53112230	00350263	5	1.417 36.0	1327	1862	53112680†
0035458	3	0.406 10.3	53	114	53112230	1 AWG (50 mm²)					
00354593	4	0.445 11.3	65	137	53112240	00350273	4	1.528 38.8	1574	2259	53112680†
00354603	5	0.496 12.6	78	165	53112240	2/0 AWG (70 mm²)					
14 AWG (2.50 mm²)						00350283	4	1.720 43.7	2039	2499	53112680†
0035011	3	0.465 11.8	98	142	53112240	3/0 AWG (95 mm²)					
00350173	4	0.531 13.5	112	208	53112240	00350293	4	1.984 50.4	2725	3931	53112681†
00350123	5	0.575 14.6	134	219	53112250	4/0 AWG (120 mm²)					
12 AWG (4 mm²)						00354303	4	2.236 56.8	3511	5046	53112501†
00350183	4	0.594 15.1	159	271	53112250	300 KCMIL (150 mm²)					
00350133	5	0.650 16.5	220	321	53112250	00354313	4	2.449 62.2	4233	5242	53112500†
10 AWG (6 mm²)						350 KCMIL (185 mm²)					
00350193	4	0.654 16.6	214	350	53112250	00354323	4	2.669 67.8	5210	6630	53112503‡
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.

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.

ÖLFLEX® CLASSIC 100 SY

Flexible Power and Control Cable; Color-Coded; 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.

Construction

Conductors: Finely stranded bare copper

Insulation: PVC

Shielding: Gray PVC inner jacket; galvanized steel braid (75% coverage)

Jacket: PVC; transparent

Recommended Applications

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

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

Approvals



Cable Attributes, see page 659

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

Similar Cables

- ÖLFLEX® CLASSIC 110 SY

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data

Minimum Bend Radius: - for installation: 6 x cable diameter	Test Voltage: 4000V
Temperature Range: - for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C	Conductor Stranding: Class 5 fine wire
Nominal Voltage: - ≤ 16 AWG: 300/500V - ≥ 14 AWG: 450/750V	Color Code: VDE 0293-308: Chart 6, page 696
	Approvals: Based on VDE specifications CE & RoHS

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
18 AWG (1.00 mm²)						10 AWG (6 mm²)					
0016043	3	0.346 8.8	19	103	S1111	0016106	3	0.622 15.8	116	365	S1121
0016044	4	0.374 9.5	26	121	S1111	0016107	4	0.677 17.2	155	461	S1121
0016045	5	0.398 10.1	32	136	S1113	0016108	5	0.740 18.8	194	536	S1129
16 AWG (1.50 mm²)						8 AWG (10 mm²)					
0016065	3	0.382 9.7	29	128	S1113	0016110	4	0.838 21.3	258	677	S1129
0016066	4	0.402 10.2	39	146	S1113	0016111	5	0.917 23.3	323	803	S1129
0016067	5	0.437 11.1	48	180	S1113	6 AWG (16 mm²)					
14 AWG (2.50 mm²)						4 AWG (25 mm²)					
0016088	3	0.496 12.6	48	187	S1116	0016113	4	0.949 24.1	413	929	S1129
0016089	4	0.547 13.9	65	228	S1121	2 AWG (35 mm²)					
0016090	5	0.598 15.2	81	267	S1121	0016116	4	1.157 29.4	645	1356	S1136
12 AWG (4 mm²)						0016117	5	1.283 32.6	806	1654	S1248
0016101*	2	0.535 13.6	52	221	S1121	0016118	4	1.276 32.4	903	1725	S1248
0016102	4	0.618 15.7	103	307	S1121						
0016103	5	0.673 17.1	129	366	S1121						

* 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.

ÖLFLEX® SMART 108

Flexible Power and Control Cable; Number Coded; Unshielded



ÖLFLEX® SMART 108 is a number-coded multi-conductor cable designed for general purpose cable installations on electrical machinery in dry or damp conditions. To help protect the environment, the jacket is dual-extruded with the inner jacket made with recycled PVC. It is available in standard lengths only and is VDE & CE rated.

Construction

Conductors: Finely stranded bare copper

Insulation: PVC

Jacket: PVC; gray

Recommended Applications

Electrical equipment; control systems; control panels

Application Advantage

- Reduced outer diameter
- Cost-effective solution
- Good chemical resistance

Approvals



Cable Attributes, see page 659



Similar Cables

- ÖLFLEX® CLASSIC 110
- ÖLFLEX® CLASSIC 100

Complete the Installation



SKINTOP®
Strain Relief:
page 502



EPIC®
Connectors:
page 278

Technical Data

Minimum Bend Radius:
- for installation: 4 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 8639
CE & RoHS

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)					
17520099*	2	0.189 4.8	7	24	S1107	19020099*	2	0.248 6.3	20	46	S1109
10030099	3	0.201 5.1	10	28	S1107	13030099	3	0.264 6.7	29	56	S1109
10040099	4	0.224 5.7	13	36	S1107	13040099	4	0.283 7.2	39	70	S1111
10050099	5	0.244 6.2	17	42	S1107	13050099	5	0.319 8.1	49	86	S1111
10070099	7	0.264 6.7	23	54	S1109	13070099	7	0.350 8.9	68	112	S1111
18 AWG (1.00 mm²)						14 AWG (2.50 mm²)					
18520099*	2	0.224 5.7	13	36	S1107	19520099*	2	0.295 7.5	33	68	S1111
12030099	3	0.236 6.0	20	44	S1107	14030099	3	0.319 8.1	49	89	S1111
12040099	4	0.256 6.5	26	53	S1109	14040099	4	0.350 8.9	65	110	S1111
12050099	5	0.280 7.1	33	63	S1111	14050099	5	0.394 10.0	81	134	S1113
12070099	7	0.315 8.0	46	85	S1111	14070099	7	0.437 11.1	113	179	S1113

* 2c cable does not include ground.

Note: ÖLFLEX® SMART 108 comes in standard put ups only: 328 ft, 656 ft, 1640 ft, and 3280 ft. Part number remains the same for each standard length.

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.

ÖLFLEX® CLASSIC 110/110 CY

Flexible Power and Control Cable; Number-Coded; Unshielded & Shielded



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.

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

Recommended Applications

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

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

Approvals



Cable Attributes, see page 659

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

Similar Cables

- ÖLFLEX® 190/190 CY

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data

Minimum Bend Radius: - for installation: 4 x cable diameter - shielded: 6 x cable diameter	Test Voltage: 4000V
Temperature Range: - for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C	Conductor Stranding: Class 5 fine wire
Nominal Voltage: 300/500V	Color Code: Black with white numbers, plus green/yellow ground
	Approvals: Based on VDE 7030 CE & RoHS

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.

ÖLFLEX® CLASSIC 110

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)						1119318	18	0.567 14.4	174	274	S1121
1119752*	2	0.189 4.8	6	24	S1107	1119325	25	0.665 16.9	242	376	S1121
1119003	3	0.201 5.1	10	28	S1107	1119334	34	0.764 19.4	329	501	S1129
1119004	4	0.224 5.7	13	36	S1107	1119341	41	0.839 21.3	397	602	S1129
1119005	5	0.244 6.2	16	42	S1107	1119350	50	0.925 23.5	484	732	S1129
1119007	7	0.264 6.7	23	54	S1109	1119365	65	1.051 26.7	629	940	S1136
1119012	12	0.350 8.9	39	88	S1111	14 AWG (2.50 mm²)					
1119018	18	0.413 10.5	58	126	S1113	1119952*	2	0.295 7.5	32	68	S1111
1119025	25	0.488 12.4	81	175	S1116	1119403	3	0.319 8.1	48	89	S1111
1119035	35	0.571 14.5	113	239	S1121	1119404	4	0.350 8.9	65	110	S1111
1119052	52	0.681 17.3	168	347	S1129	1119405	5	0.394 10.0	81	134	S1113
1119065	65	0.772 19.6	210	433	S1129	1119407	7	0.437 11.1	113	179	S1113
1119080	80	0.831 21.1	258	524	S1129	1119412	12	0.583 14.8	194	299	S1121
1119100	100	0.929 23.6	323	655	S1129	1119418	18	0.701 17.8	290	436	S1129
18 AWG (1.00 mm²)						1119425	25	0.819 20.8	403	598	S1129
1119852*	2	0.224 5.7	13	36	S1107	1119434	34	0.961 24.4	548	812	S1129
1119203	3	0.236 6.0	19	44	S1107	1119450	50	1.157 29.4	806	1179	S1136
1119204	4	0.256 6.5	26	53	S1109	12 AWG (4 mm²)					
1119205	5	0.280 7.1	32	63	S1111	1119503	3	0.390 9.9	77	135	S1113
1119207	7	0.315 8.0	45	85	S1111	1119504	4	0.425 10.8	103	167	S1113
1119212	12	0.413 10.5	77	138	S1113	1119505	5	0.476 12.1	129	198	S1116
1119218	18	0.500 12.7	116	215	S1116	1119507	7	0.528 13.4	181	274	S1116
1119225	25	0.579 14.7	161	274	S1121	10 AWG (6 mm²)					
1119234	34	0.673 17.1	219	370	S1121	1119603	3	0.461 11.7	116	194	S1116
1119241	41	0.740 18.8	265	444	S1129	1119604	4	0.512 13.0	155	245	S1116
1119250	50	0.811 20.6	323	536	S1129	1119605	5	0.571 14.5	194	300	S1121
1119265	65	0.929 23.6	419	694	S1129	1119607	7	0.630 16.0	271	403	S1121
1119280	80	0.996 25.3	516	841	S1136	8 AWG (10 mm²)					
1119300	100	1.114 28.3	645	1048	S1136	1119614	4	0.638 16.2	258	397	S1121
16 AWG (1.50 mm²)						6 AWG (16 mm²)					
1119902*	2	0.248 6.3	19	46	S1109	1119624	4	0.740 18.8	413	731	S1129
1119303	3	0.264 6.7	29	56	S1109	4 AWG (25 mm²)					
1119304	4	0.283 7.2	39	70	S1111	1119634	4	0.925 23.5	645	1063	S1129
1119305	5	0.319 8.1	48	86	S1111	2 AWG (35 mm²)					
1119307	7	0.350 8.9	68	112	S1111	1119644	4	1.039 26.4	903	1415	S1136
1119312	12	0.472 12.0	116	188	S1116	1119645	5	1.165 29.6	1129	1771	S1136

* 2c cable does not include ground.

ÖLFLEX® CLASSIC 110 CY

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)						1135305	5	0.406 10.3	84	126	53112230
1135003	3	0.287 7.3	31	56	53112220	1135307	7	0.445 11.3	100	159	53112240
1135004	4	0.311 7.9	37	67	53112220	1135312	12	0.583 14.8	188	264	53112250
1135005	5	0.331 8.4	44	75	53112220	1135318	18	0.677 17.2	261	362	53112260
1135007	7	0.350 8.9	54	89	53112220	1135325	25	0.791 20.1	360	501	53112260
1135012	12	0.445 11.3	93	136	53112240	14 AWG (2.50 mm²)					
1135018	18	0.524 13.3	105	194	53112240	1135403	3	0.406 10.3	98	129	53112230
1135025	25	0.598 15.2	168	254	53112250	1135404	4	0.445 11.3	112	157	53112240
18 AWG (1.00 mm²)						1135405	5	0.496 12.6	134	190	53112240
1135203	3	0.323 8.2	44	75	53112220	1135407	7	0.547 13.9	194	249	53112250
1135204	4	0.343 8.7	52	87	53112220	12 AWG (4 mm²)					
1135205	5	0.374 9.5	60	103	53112230	1135504	4	0.528 13.4	159	233	53112240
1135207	7	0.402 10.2	76	124	53112230	1135505	5	0.579 14.7	188	278	53112250
1135212	12	0.524 13.3	126	206	53112240	10 AWG (6 mm²)					
1135218	18	0.610 15.5	192	288	53112250	1135604	4	0.622 15.8	214	326	53112250
1135225	25	0.689 17.5	261	366	53112260	8 AWG (10 mm²)					
16 AWG (1.50 mm²)						1135614	4	0.748 19.0	375	494	53112260
1135902*	2	0.335 8.5	44	79	53112220	6 AWG (16 mm²)					
1135303	3	0.350 8.9	56	91	53112220	1135624	4	0.874 22.2	540	934	53112260
1135304	4	0.378 9.6	67	110	53112230						

* 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.

ÖLFLEX® CLASSIC 110 SY

Flexible Power and Control Cable; Number-Coded; 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-influenced machinery

Approvals



Construction

Conductors: Finely stranded bare copper

Insulation: PVC

Shielding: Gray PVC inner jacket; 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

Cable Attributes, see page 659

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

Similar Cables

- ÖLFLEX® 100 SY

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data

Minimum Bend Radius:	6 x cable diameter	Test Voltage:	4000V
Temperature Range:	- for flexible use: -5°C to +70°C - for stationary use: -40°C to +80°C	Conductor Stranding:	Class 5 fine wire
Nominal Voltage:	300/500V	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 (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)							1125312	12	0.606	15.4	116	266	S1121
1125003	3	0.319	8.1	10	64	S1111	1125318	18	0.693	17.6	174	362	S1129
1125004	4	0.335	8.5	13	72	S1111	1125325	25	0.799	20.3	242	479	S1129
1125005	5	0.362	9.2	16	83	S1111	14 AWG (2.50 mm²)						
1125007	7	0.382	9.7	23	99	S1113	1125403	3	0.437	11.1	48	138	S1113
1125012	12	0.469	11.9	39	143	S1116	1125404	4	0.476	12.1	65	167	S1116
1125018	18	0.547	13.9	58	196	S1121	1125405	5	0.520	13.2	81	198	S1116
1125025	25	0.614	15.6	81	252	S1121	1125407	7	0.563	14.3	113	251	S1121
18 AWG (1.00 mm²)							1125412	12	0.717	18.2	194	394	S1129
1125852*	2	0.335	8.5	13	71	S1111	1125418	18	0.843	21.4	290	553	S1129
1125203	3	0.346	8.8	19	80	S1111	1125425	25	0.961	24.4	403	734	S1129
1125204	4	0.374	9.5	26	95	S1111	12 AWG (4 mm²)						
1125205	5	0.398	10.1	32	110	S1113	1125503	3	0.500	12.7	77	192	S1116
1125207	7	0.433	11.0	45	134	S1113	1125504	4	0.551	14.0	103	234	S1121
1125212	12	0.547	13.9	77	208	S1121	1125505	5	0.594	15.1	129	276	S1121
1125218	18	0.626	15.9	116	279	S1121	10 AWG (6 mm²)						
1125225	25	0.713	18.1	161	368	S1129	1125604	4	0.638	16.2	155	324	S1121
16 AWG (1.50 mm²)							1125605	5	0.697	17.7	194	389	S1129
1125303	3	0.382	9.7	29	101	S1113	8 AWG (10 mm²)						
1125304	4	0.402	10.2	39	116	S1113	1125614	4	0.764	19.4	258	491	S1129
1125305	5	0.437	11.1	48	136	S1113	6 AWG (16 mm²)						
1125307	7	0.469	11.9	68	167	S1116	1125624	4	0.882	22.4	413	930	S1129

* 2c cable does not include ground.

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ÖLFLEX® PUR S 17/PUR S 27

Flexible Cold-Resistant Polyurethane Control Cable with Superfine Copper Stranding



ÖLFLEX® PUR S 17/PUR S 27 is a highly flexible PUR-insulated and PUR-jacketed control cable. It has excellent oil and abrasion resistance and cold-temperature performance.

Construction

Conductors: Extra fine stranded bare copper

Insulation: Polyurethane

Jacket: Black polyurethane

Recommended Applications

Forestry equipment; farming equipment; utility trucks; cold-temperature applications where abrasion resistance and flexibility are required

Application Advantage

- Very good cold-temperature performance
- Excellent oil and abrasion resistance
- Halogen-free
- Cold climate/rugged applications

Approvals



Cable Attributes, see page 659

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

Similar Cables

- ÖLFLEX® 590 P

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data

Minimum Bend Radius: - for installation:	15 x cable diameter	Conductor Stranding:	Class 6 fine wire
Temperature Range:	-30°C to +80°C	Color Code:	- ÖLFLEX® PUR S 17: Chart 9, page 698 - ÖLFLEX® PUR S 27: Numbered conductors
Nominal Voltage:	300/500V	Approvals:	CE & RoHS
Test Voltage:	3000V		

ÖLFLEX® PUR S 17

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)					
38000969*	2	0.209 5.3	7	22	S2107	38000988	15	0.476 12.1	94	73	S2116
38000975	12	0.378 9.6	40	40	S2113	38000989	18	0.500 12.7	113	88	S2116
						38000991	25	0.606 15.4	156	121	S2121
19 AWG (0.75 mm²)						16 AWG (1.50 mm²)					
38000980*	2	0.228 5.8	13	11	S2107	38001005*	2	0.280 7.1	18	20	S2111
38000981	3	0.236 6.0	19	15	S2107	38001006	3	0.287 7.3	27	31	S2111
38000982	4	0.264 6.7	25	22	S2109	38001013	12	0.531 13.5	109	117	S2121
38000987	12	0.417 10.6	75	64	S2113						

ÖLFLEX® PUR S 27

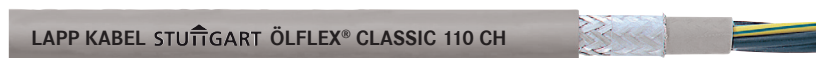
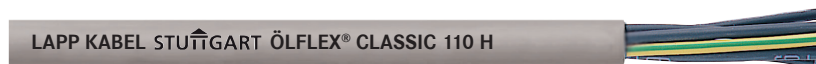
Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
20 AWG (0.50 mm²)						16 AWG (1.50 mm²)					
38002560*	3	0.217 5.5	10	11	S2107	38002571*	5	0.287 7.3	31	26	S2111
38002561*	4	0.240 6.1	13	13	S2107	38002947	7	0.339 8.6	44	33	S2111
						38002948	12	0.417 10.6	75	58	S2113
19 AWG (0.75 mm²)						16 AWG (1.50 mm²)					
38002567	3	0.236 6.0	13	15	S2107	38000332	25	0.606 15.4	156	121	S2121
38002569*	4	0.264 6.7	25	22	S2109	38003270*	4	0.319 8.1	36	40	S2111

* Part numbers do not have a 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.

ÖLFLEX® CLASSIC 110 H/110 CH

Oil-Resistant, Halogen-Free Control Cable; Unshielded & Shielded



Unshielded Construction

Conductors: Finely stranded bare copper

Insulation: Halogen-free

Jacket: Gray halogen-free compound

Shielded Construction

Conductors: Finely stranded bare copper

Insulation: Halogen-free

Shielding: Halogen-free inner jacket; tinned copper braid (85% coverage)

Jacket: Gray halogen-free compound

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. Improved oil resistance makes it suitable for machinery.

Application Advantage

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

Approvals



Cable Attributes, see page 659

OR-04	FR-04	FL-01	MP-01
OIL	FLAME	MOTION	MECHANICAL

Complete the Installation

	SKINTOP® Strain Relief: page 502		EPIC® Connectors: page 278
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Technical Data

Minimum Bend Radius:	- unshielded: 4 x cable diameter - shielded: 6 x cable diameter	Conductor Stranding:	Class 5 fine wire
Temperature Range:	- for flexible use: -30°C to +70°C (UL: +75°C) - for stationary use: -40°C to +80°C (UL: +75°C)	Color Code:	Black with white numbers, plus green/yellow ground
Nominal Voltage:	UL: 600V U ₀ /U: 300/500V	Approvals:	UL: AWM 21089 AWM 75°C, 600V Attributes: Passes Oil Res I/II* Sunlight Resistant Additional: Based on VDE specifications CE & RoHS LS acc. to IEC 61034-2 HF acc. to IEC 60754-1 Corrosiveness acc. to IEC 60754-2
Test Voltage:	4000V		

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ÖLFLEX® CLASSIC 110 H

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)							10019934	7	0.354	9.0	68	124	S1111
10019901	3	0.213	5.4	10	33	S1107	10019935	12	0.480	12.2	116	207	S1116
10019903	4	0.228	5.8	13	39	S1107	10019937	18	0.575	14.6	174	302	S1121
10019905	5	0.248	6.3	16	46	S1109	10019938	25	0.677	17.2	242	415	S1121
10019906	7	0.272	6.9	23	58	S1109	14 AWG (2.50 mm²)						
10019907	12	0.358	9.1	39	95	S1111	10019945	3	0.327	8.3	48	98	S1111
18 AWG (1.00 mm²)							10019946	4	0.354	9.0	65	121	S1111
10019961	3	0.240	6.1	19	48	S1107	10019947	5	0.398	10.1	81	149	S1113
10019963	4	0.260	6.6	26	58	S1109	10019948	7	0.441	11.2	113	198	S1113
10019965	5	0.287	7.3	32	70	S1111	10019949	12	0.594	15.1	194	330	S1121
10019967	7	0.319	8.1	45	93	S1111	12 AWG (4 mm²)						
10019969	12	0.421	10.7	77	151	S1113	10019950	4	0.425	10.8	103	180	S1113
10019971	18	0.508	12.9	116	220	S1116	10019951	5	0.476	12.1	129	220	S1116
10019972	25	0.591	15.0	161	299	S1121	10019952	7	0.528	13.4	181	294	S1116
16 AWG (1.50 mm²)							10 AWG (6 mm²)						
10019931	3	0.268	6.8	29	63	S1109	10019953	4	0.512	13.0	155	263	S1116
10019932	4	0.291	7.4	39	77	S1111	10019954	5	0.571	14.5	194	321	S1121
10019933	5	0.327	8.3	48	95	S1111	10019975	7	0.630	16.0	271	429	S1121

ÖLFLEX® CLASSIC 110 CH

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)							10035091	5	0.500	12.7	106	216	53112240
10035031	3	0.291	7.4	24	64	53112220	10035092	7	0.551	14.0	150	284	53112250
10035033	4	0.315	8.0	28	75	53112220	10035093	12	0.705	17.9	242	443	53112260
10035035	5	0.339	8.6	32	85	53112220	12 AWG (4 mm²)						
10035036	7	0.358	9.1	40	99	53112220	10035094	4	0.535	13.6	140	262	53112240
10035037	12	0.453	11.5	61	152	53112240	10035095	5	0.587	14.9	169	311	53112250
18 AWG (1.00 mm²)							10035096	7	0.638	16.2	224	395	53112250
10035056	3	0.331	8.4	35	85	53112220	10 AWG (6 mm²)						
10035058	4	0.350	8.9	49	106	53112220	10035097	4	0.622	15.8	198	347	53112250
10035060	5	0.382	9.7	56	115	53112230	10035098	5	0.681	17.3	239	414	53112260
10035061	7	0.406	10.3	65	141	53112230	10035099	7	0.740	18.8	322	532	53112260
10035062	12	0.535	13.6	113	233	53112240	8 AWG (10 mm²)						
10035063	18	0.618	15.7	158	319	53112250	10035380	4	0.752	19.1	310	530	53112260
10035064	25	0.701	17.8	210	411	53112260	6 AWG (16 mm²)						
16 AWG (1.50 mm²)							10035382	4	0.878	22.3	489	775	53112260
10035068	3	0.354	9.0	46	104	53112220	4 AWG (25 mm²)						
10035070	4	0.386	9.8	58	125	53112230	10035384	4	1.063	27.0	755	1214	53112270
10035071	5	0.413	10.5	69	144	53112230	2 AWG (35 mm²)						
10035072	7	0.449	11.4	90	181	53112240	10035386	4	1.197	30.4	1028	1560	53112270
10035073	12	0.591	15.0	156	299	53112250	1 AWG (50 mm²)						
10035074	18	0.685	17.4	220	410	53112260	10035388	4	1.437	36.5	1453	2514	53112680†
10035075	25	0.803	20.4	311	566	53112260	2/0 AWG (70 mm²)						
14 AWG (2.50 mm²)							10035390	4	1.638	41.6	1998	3396	53112680†
10035089	3	0.413	10.5	69	148	53112230	3/0 AWG (95 mm²)						
10035090	4	0.449	11.4	87	178	53112240	10035392	4	1.886	47.9	2665	4319	53112681†

† SKINTOP® MS-SC BRUSH with metric thread.

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