

Oil Resistant Flexible Control & Power Cable

1 **OLFLEX[®]**



Oil Resistant Flexible Control & Power Cables

QUICK SELECT CHART

38

FLEXIBLE UL/CSA PVC CONTROL CABLE

OLFLEX® 190/ 190 CY



40

Extremely Oil Resistant Flexible Control Cable
Now with UL MTW to Comply with NFPA 79 2007

OLFLEX® 150/ 150 CY



42

Oil Resistant Flexible Control Cable with International Approvals
“Now with <HAR> Approval for use as a Machinery Interconnection Cable”

NEW

OLFLEX® CONTROL TM/ TM CY



44

Flexible & Oil Resistant Tray and Machine Cable
UL MTW & UL/CSA TC Approval with Exposed Run for Industrial Applications

NEW

OLFLEX® CONTROL COLD



46

Flexible & Cold Temperature Tray Cable with UL/CSA
-45°C Flexible/ -55°C Stationary

FLEXIBLE EUROPEAN PVC CONTROL CABLE

OLFLEX® CLASSIC 100/ 100 CY



47

Flexible Power and Control Cables
Color Coded

OLFLEX® CLASSIC 100 SY



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Steel Braided, Flexible Power Control Cable
Color Coded

OLFLEX® CLASSIC 110/ 110 CY



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Flexible Control Cable
Number Coded

OLFLEX® CLASSIC 110 SY



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Steel Braided, Flexible Control Cable
Number Coded

OLFLEX® CLASSIC 110 Black 1000V







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UV Resistant Control Cable with Numbered Conductors

Oil Resistant Flexible Control & Power Cables

FLEXIBLE HALOGEN-FREE CONTROL CABLE

	OLFLEX® 110 H/ 110 CH	 	54
	Oil Resistant, Halogen-Free Control Cable LSF OH (Low Smoke & Fume, Zero Halogen)		
NEW	OLFLEX® CLASSIC 130 H A/ 135 CH A	 	56
	Flexible Halogen-Free Cable with UL Approval		

FLEXIBLE PUR & TPE CONTROL CABLES

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	Flexible Control Cable with Polyurethane Jacket		
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	Heavy Duty, Low Halogen, Indoor/Outdoor Flexible Control Cable		
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	Flexible & Oil Resistant MTW Cable according to NFPA 79		
NEW	OLFLEX® POWER MULTI	    	63
	Flexible & Oil Resistant Tray Cable and STOOV Extra Hard Service Cordage		




QUICK SELECT CHART

	Insulation	Jacket	AWG Range	Conductor Counts
OLFLEX® 190	PVC	PVC	20 - 2	2, 3, 4, 5, 7, 9, 12, 18, 25
OLFLEX® 190 CY	PVC	PVC	20 - 2	2, 3, 4, 5, 7, 12, 18, 25
OLFLEX® 150	PVC	PVC	19 - 14	3, 4, 5, 7, 12, 18, 25
OLFLEX® 150 CY	PVC	PVC	19 - 14	3, 4, 5, 7
OLFLEX® CONTROL TM	PVC/ Nylon	PVC	18 - 10	3, 4, 5, 7, 9, 10, 12, 15, 19, 20, 25
OLFLEX® CONTROL TM CY	PVC/ Nylon	PVC	18 - 10	3, 4, 5, 7, 9, 10, 12, 15, 19, 20, 25
OLFLEX® CONTROL COLD	PVC/ Nylon	PVC	18 - 2	3, 4, 5, 7, 9, 12, 16, 18, 25
OLFLEX® CLASSIC 100	PVC	PVC	21 - 500 KCMIL	2, 3, 4, 5
OLFLEX® CLASSIC 100 CY	PVC	PVC	21 - 350 KCMIL	2, 3, 4, 5
OLFLEX® CLASSIC 100 SY	PVC	PVC	21 - 3/0	2, 3, 4, 5
OLFLEX® CLASSIC 110	PVC	PVC	21 - 2	2, 3, 4, 5, 7, 12, 18, 25, 34, 35, 52, 65, 80, 100
OLFLEX® CLASSIC 110 CY	PVC	PVC	21 - 2	2, 3, 4, 5, 7, 12, 18, 25
OLFLEX® CLASSIC 110 SY	PVC	PVC	21 - 6	2, 3, 4, 5, 7, 12, 18, 25
OLFLEX® CLASSIC 110 Black 1000V	PVC	PVC	18 - 4/0	3, 4, 5, 7, 12, 18, 25
OLFLEX® 110 H	Halogen-Free	HF Polymer	21 - 10	3, 4, 5, 7, 12, 18, 25
OLFLEX® 110 CH	Halogen-Free	HF Polymer	21 - 10	3, 4, 5, 7, 12, 18, 25
OLFLEX® CLASSIC 130 H A	Halogen-Free	HF Polymer	16 - 14	2, 3, 4, 5, 7
OLFLEX® CLASSIC 135 CH A	Halogen-Free	HF Polymer	16 - 14	2, 3, 4, 5
OLFLEX® 490 P	PVC	PUR	20 - 14	2, 3, 4, 5, 7, 9, 12, 18, 25, 34, 41, 50, 61
OLFLEX® 490 CP	PVC	PUR	20 - 14	2, 3, 4, 5, 7, 9, 12, 18, 25, 34, 41, 50, 61
OLFLEX® 590 P	TPE	PUR	18 - 10	2, 3, 4, 5, 7
OLFLEX® 590 CP	TPE	PUR	18 - 10	2, 3, 4, 5, 7
OLFLEX® PUR S	PUR	PUR	20 - 16	2, 3, 4, 5, 7, 12, 18, 25
OLFLEX® CONTROL M	PVC	Polymer	18 - 2	3, 4, 5, 7, 9, 12, 18, 25, 33
OLFLEX® POWER MULTI	PVC	Elastomeric Alloy	18 - 8	3, 4, 5, 7, 12, 18, 25

Approvals	Low Temp	High Temp	Voltage	Shield	Oil	Flame	Mechanical Properties	Page #
UL, CSA, CE, FP 2007, RoHS	-40°C	90°C	600V	No	★★★★★	★★	★★	40
UL, CSA, CE, FP 2007, RoHS	-40°C	90°C	600V	Yes	★★★★★	★★	★★	40
UL, CSA, HAR, CE, CCC, RoHS	-40°C	90°C	600V	No	★★★★★	★★	★	42
UL, CSA, HAR, CE, CCC, RoHS	-40°C	90°C	600V	Yes	★★★★★	★★	★	42
UL, CSA, CE, NOM, FP 2007, RoHS	-40°C	90°C	1000V	No	★★	★★★	★★★	44
UL, CSA, CE, NOM, FP 2007, RoHS	-40°C	90°C	1000V	Yes	★★	★★★	★★★	44
UL, CSA, CE, NOM, RoHS	-55°C	90°C	1000V	No	★	★★★	★★★	46
CE, RoHS	-40°C	80°C	500V 750V	No	★	★★	★	47
CE, RoHS	-40°C	80°C	500V 750V	Yes	★	★★	★	47
CE, RoHS	-40°C	80°C	500V 750V	Yes Steel	★	★★	★	49
VDE, CE, RoHS	-40°C	80°C	500V	No	★	★★	★	50
VDE, CE, RoHS	-40°C	80°C	500V	Yes	★	★★	★	50
VDE, CE, RoHS	-40°C	80°C	500V	Yes Steel	★★	★★★	★	52
CE, RoHS	-30°C	80°C	1000V	No	★	★★	★	53
CE, RoHS	-40°C	80°C	500V	No	★★★	★★★	★	54
CE, RoHS	-40°C	80°C	500V	Yes	★★★	★★★	★	54
UL, CE, RoHS	-40°C	70°C	600V	No	★	★	★	56
UL, CE, RoHS	-40°C	70°C	600V	Yes	★	★	★★★★★	56
UL, CSA, CE, RoHS	-20°C	80°C	600V	No	★★★★★	★★	★★★★★	57
UL, CSA, CE, RoHS	-20°C	80°C	600V	Yes	★★★★★	★★	★★★★★	57
UL, CSA, CE, RoHS	-50°C	80°C	600V	No	★★★★★	★★	★★★★★	59
UL, CSA, CE, RoHS	-50°C	80°C	600V	Yes	★★★★★	★★	★★★★★	59
CE, RoHS	-40°C	80°C	300V	No	★★★★★	★	★★★★★	61
UL, CSA, CE, FP 2007, RoHS	-40°C	105°C	1000V	No	★★★	★★★	★★★	62
UL, CSA, CE, FP 2007, RoHS	-40°C	90°C	1000V	No	★★★	★★★	★★★	63

		OR-	FR-	MP-
★★★★★	Ultimate	05	05	05
★★★★	Excellent	04	04	04
★★★	Superior	03	03/3.1	03
★★	Above Average	02	02	02
★	Average	01	01	01

Cable Attributes, See Page 653

	Oil Resistance: OR		Flame Resistance: FR		Mechanical Properties: MP
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OLFLEX® 190/ 190 CY

Extremely Oil Resistant Flexible Control Cable

Now with UL MTW to Comply with NFPA 79 2007



OLFLEX® 190 multi-conductor cable has the highest oil, coolant and solvent resistant PVC jacket for control and power applications in an industrial environment. OLFLEX® 190 is designed for use in all electrical equipment in dry, damp and wet conditions.

Recommended Applications:

For Machinery: CNC machining centers, Grinding machines, Bottling equipment, Conveyors, Processing equipment, Assembly lines and Control panels

Application Advantages:

- Extremely oil resistant (Oil Res I & II)
- Meets NFPA 79 2007 machinery wiring standard
- Excellent industrial power and control cable
- Very flexible and number coded for easy routing and terminating
- Round jacket for optimal seal with a SKINTOP® Strain Relief

OLFLEX® 190 Construction:

Finely stranded bare copper conductors; specially blended PVC/ nylon insulation; non-wicking fillers; dry lubricant; specially formulated oil resistant gray PVC jacket.



OLFLEX® 190 CY Construction:

Finely stranded bare copper conductors; specially blended PVC/ nylon insulation; dry lubricant; non-wicking fillers; gray inner PVC jacket; tinned copper braid (85% coverage); specially formulated oil resistant gray PVC jacket.



Also available with the following options:

- Blue or red insulation
- Black overall jacket

Cable Attributes, See Page 653		Availability:		Complete the installation with:	
Oil Resistance: OR-04	Flame Resistance: FR-02	Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251	
Motion Type: FL-02	Mechanical Properties: MP-02		OLFLEX® Tubing: Page 546	SKINTOP® MS-SC Page 486	

Technical Data:

Minimum Bending Radius - for installation: 4 x cable diameter - with shield: 6 x cable diameter	Color Code: Black with white numbers, plus green/yellow ground, 2 conductor cable does not include ground
Temperature Range: - for flexible use: -5°C to +90°C - for stationary use: -40°C to +90°C	Approvals: UL: - AWM 2587 + 21098 - Type MTW Oil Res I & II - UL 758 80°C, - Conforms to NFPA 79 2007 CSA: - AWM I/II A/B FT 1 - CSA C22.2 210.2 Sec. 7.6.12.1, 8.8.8 Additional: - Impact and Crush tests to UL 1277
Nominal Voltage: 600V	
Test Voltage: 3000V	
Conductor Stranding: Class 5	

OLFLEX® 190/ 190 CY

Extremely Oil Resistant Flexible Control Cable

Now with UL MTW to Comply with NFPA 79 2007



OLFLEX® 190: Oil Resistant Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km						
20 AWG (10/30) 0.50 mm ²							601641							41	1.144	29.1	372	1230	1830
602002	2	.253	6.4	7	39	58	601650	50	1.219	30.1	454	1500	2232						
602003	3	.265	6.7	10	41	61	601661	61	1.294	32.9	554	1800	2679						
602004	4	.285	7.2	13	51	76	14 AWG (46/30) 2.50 mm ²												
602005	5	.308	7.8	17	60	89	601402	2	.337	8.6	30	87	130						
602007	7	.331	8.4	23	81	120	601403	3	.356	9.0	45	93	138						
602009	9	.379	9.6	30	135	201	601404	4	.386	9.8	60	122	182						
602012	12	.421	10.7	40	168	250	601405	5	.421	10.7	75	145	216						
602018	18	.487	12.4	60	198	295	601407	7	.457	11.6	105	192	286						
602025	25	.586	14.9	83	243	361	601409	9	.563	14.3	135	318	473						
18 AWG (19/30) 1.00 mm ²							601412							12	.628	16.0	179	402	598
601802	2	.277	7.0	13	42	63	601418	18	.729	18.5	269	575	855						
601803	3	.291	7.4	19	44	66	601425	25	.872	22.2	374	860	1280						
601803NG	3	No Ground					12 AWG (56/.0117) 4 mm ²												
601804	4	.314	8.0	25	54	81	601203	3	.417	10.6	75	156	232						
601805	5	.340	8.6	31	64	95	601204	4	.454	11.5	100	198	295						
601807	7	.367	9.3	44	84	125	601205	5	.497	12.6	125	238	354						
601809	9	.423	10.7	56	118	176	601207	7	.573	14.6	176	363	540						
601812	12	.471	12.0	75	142	211	601211	11	.745	18.9	276	398	592						
601818	18	.579	14.7	113	207	309	10 AWG (82/.0117) 6 mm ²												
601825	25	.656	16.4	156	277	413	601003	3	.492	12.5	110	222	330						
601834	34	.953	24.2	213	494	735	601004	4	.570	14.5	147	267	398						
601841	41	1.043	26.5	256	558	830	601005	5	.623	15.8	184	321	479						
601850	50	1.110	28.2	313	697	1038	8 AWG (74/.0159) 10 mm ²												
16 AWG (28/30) 1.50 mm ²							600804							4	.695	17.7	245	435	648
601602	2	.303	7.7	18	57	85	600805	5	.764	19.4	306	525	782						
601603	3	.319	8.1	27	61	91	6 AWG (119/.0159) 16 mm ²												
601604	4	.345	8.8	36	75	112	600604	4	.870	22.1	393	698	1040						
601605	5	.375	9.5	45	91	136	600605	5	.955	24.3	491	842	1254						
601607	7	.406	10.3	64	120	179	4 AWG (182/.04) 25 mm ²												
601609	9	.470	11.9	82	174	260	600404	4	1.184	30.1	541	1007	1501						
601612	12	.557	14.2	109	210	313	600405	5	1.306	33.2	676	1244	1853						
601618	18	.644	16.4	163	298	444	2 AWG (273/.04) 35 mm ²												
601625	25	.733	18.6	227	416	620	600204	4	1.316	33.4	853	1422	2119						
601634	34	1.044	26.5	309	946	1408	600205	5	1.454	36.9	1066	1749	2606						

OLFLEX® 190 CY: Shielded Oil Resistant Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km						
20 AWG (10/30) 0.50 mm ²							14 AWG (46/30) 2.50 mm ²												
602002CY	2	.329	8.4	23	65	97	601403CY	3	.432	11.0	69	148	221						
602003CY	3	.341	8.7	27	82	122	601404CY	4	.462	11.7	86	181	269						
602007CY	7	.407	10.3	48	112	167	601405CY	5	.497	12.6	106	218	325						
602012CY	12	.497	12.6	71	180	268	601407CY	7	.572	14.5	136	283	421						
602025CY	25	.678	17.2	137	296	441	601412CY	12	.736	18.7	226	516	769						
18 AWG (19/30) 1.00 mm ²							601418CY							18	.905	23.0	334	740	1102
601802CY	2	.353	9.0	26	75	112	12 AWG (56/.0117) 4 mm ²												
601803CY	3	.367	9.3	34	82	122	601203CY	3	.500	12.7	115	226	337						
601804CY	4	.390	9.9	46	105	157	601204CY	4	.585	14.9	146	310	462						
601805CY	5	.416	10.6	54	123	183	601205CY	5	.628	15.9	172	359	535						
601807CY	7	.443	11.3	68	139	207	601207CY	7	.672	17.1	225	493	735						
601812CY	12	.554	14.1	107	230	342	10 AWG (82/.0117) 6 mm ²												
601818CY	18	.678	17.2	162	317	472	601003CY	3	.623	15.8	155	311	463						
601825CY	25	.764	19.4	213	435	648	601004CY	4	.669	17.0	196	385	574						
16 AWG (28/30) 1.50 mm ²							601005CY							5	.731	18.6	238	474	706
601603CY	3	.395	10.0	48	111	166	601007CY	7	.786	20.0	316	638	950						
601604CY	4	.421	10.7	61	128	191	8 AWG (74/.0159) 10 mm ²												
601605CY	5	.451	11.5	70	149	222	600804CY	4	.803	20.4	305	569	848						
601607CY	7	.482	12.2	91	181	270	6 AWG (119/.0159) 16 mm ²												
601612CY	12	.656	16.7	156	311	464	600604CY	4	.994	25.2	467	1114	1660						
601618CY	18	.743	18.9	219	456	679	4 AWG (182/.04) 25 mm ²												
601625CY	25	.897	22.8	292	639	952	600404CY	4	1.324	33.6	637	1266	1886						
							2 AWG (273/.04) 35 mm ²												
							600204CY							4	1.468	37.3	969	2189	3261

*2 conductor cable does not include ground wire.

OLFLEX® 150/ 150 CY

Oil Resistant Flexible Control Cable with International Approvals

“Now with <HAR> approval for use as a Machinery Interconnection Cable”



OLFLEX® 150 is an internationally approved 600 volt multi-conductor cable. It has UL & CSA AWM approval and <HAR> approval as a interconnect cable on the machine. OLFLEX® 150 has our highest rated PVC jacket for industrial applications for oil, coolant and chemical resistance.

Recommended Applications:

Control and power, Food & beverage, Processing equipment, Pharmaceutical equipment, Machinery sold domestically and exported to Europe.

Application Advantages:

- Industrial grade PVC jacket (Oil Res I & II)
- International approvals UL/CSA/<HAR>
- Flexible cable with pressure extruded jacket for easy installation
- Number coded conductors for easy connection
- CCC approval is available upon request

OLFLEX® 150 Construction:










Finely stranded bare copper conductors; PVC insulation; dry lubricant; conductors cabled with non-wicking fillers; specially formulated oil resistant gray PVC jacket.










OLFLEX® 150 CY Construction:

Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray PVC inner jacket; tinned copper braid (85% coverage); specially formulated oil resistant gray PVC jacket.



<p>Cable Attributes, See Page 653</p> <p>Oil Resistance: OR-04 </p> <p>Motion Type: FL-01 </p> <p>Flame Resistance: FR-02 </p> <p>Mechanical Properties: MP-01 </p>	<p>Availability:</p> <p> Standard put-ups are 250ft, 499ft, 1000ft and 2001ft. Bulk reels can be cut to length.</p>	<p>Complete the installation with:</p> <p> SKINTOP® Strain Relief: Page 486</p> <p> OLFLEX® Tubing: Page 546</p> <p> EPIC® Connectors: Page 251</p> <p> SKINTOP® MS-SC Page 486</p>
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Technical Data:

<p> Minimum Bending Radius</p> <p>- for installation: 4 x cable diameter</p> <p>- with shield: 6 x cable diameter</p> <p> Temperature Range:</p> <p>- <HAR>: -40°C to +70°C</p> <p>- UL/CSA: -40°C to +90°C</p> <p> Nominal Voltage:</p> <p>- <HAR>: 300/500V</p> <p>- UL/CSA: 600V</p> <p> Test Voltage: 3000V</p> <p> Conductor Stranding: Fine wire per VDE 0295, Class 5, IEC 60228 Cl.5</p>	<p> Color Code: Black with white numbers, plus green/yellow ground</p> <p> Approvals:</p> <p>UL: - AWM Style 2587 & 21098</p> <p>CSA: - AWM I/II A/B FT1</p> <p>Additional: - <HAR> H05VV5-F</p> <p>- CCC- China Compulsory Certificate*</p>
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* Add C to the end of the part number for CCC approval. Minimums may apply.

OLFLEX® 150/ 150 CY

Oil Resistant Flexible Control Cable with International Approvals

“Now with <HAR> approval for use as a Machinery Interconnection Cable”



OLFLEX® 150: Flexible Control Cable with Global Approvals

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
19 AWG (24/32) 0.75 mm ²							16 AWG (30/30) 1.50 mm ²						
0015103	3	.264	6.7	15	51	76	0015303	3	.319	8.1	29	74	110
0015104	4	.283	7.2	19	56	84	0015304	4	.350	8.9	39	95	141
0015105	5	.319	8.1	24	76	113	0015305	5	.394	10.0	48	113	168
0015107	7	.390	9.9	34	97	145	0015307	7	.484	12.3	68	151	224
0015112	12	.472	12.0	58	165	245	0015312	12	.583	14.8	116	243	362
0015125	25	.689	17.5	121	313	466	0015318	18	.701	17.8	174	348	518
18 AWG (32/32) 1.00 mm ²							14 AWG (50/30) 2.50 mm ²						
0015203	3	.280	7.1	19	60	89	0015403	3	.378	9.6	48	114	170
0015204	4	.303	7.7	26	67	99	0015404	4	.421	10.7	65	141	210
0015205	5	.343	8.7	32	89	132	0015405	5	.465	11.8	81	173	257
0015207	7	.453	11.5	45	114	169	0015407	7	.571	14.5	113	229	340
0015212	12	.512	13.0	77	192	286	0015412	12	.697	17.7	194	390	580
0015218	18	.606	15.4	116	272	405	0015418	18	.843	21.4	290	571	850
0015225	25	.736	18.7	161	383	570	0015425	25	1.016	25.8	403	790	1175

* Add C to the end of the part number for CCC approval. Minimums may apply.

OLFLEX® 150 CY: Shielded Flexible Control Cable with Global Approvals

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
19 AWG (24/32) 0.75 mm ²							16 AWG (30/30) 1.50 mm ²						
0015603	3	.350	8.9	46	84	125	0015803	3	.406	10.3	56	107	159
0015604	4	.378	9.6	47	105	157	0015804	4	.445	11.3	63	142	211
0015605	5	.406	10.3	52	121	180	0015805	5	.496	12.6	82	162	241
0015607	7	.484	12.3	62	152	226	0015807	7	.587	14.9	96	205	306
18 AWG (32/32) 1.00 mm ²							14 AWG (50/30) 2.50 mm ²						
0015703	3	.374	9.5	51	97	145	0015903	3	.465	11.8	81	164	245
0015704	4	.398	10.1	54	121	180	0015904	4	.516	13.1	114	198	295
0015705	5	.437	11.1	64	136	203	0015905	5	.575	14.6	138	245	365
0015707	7	.516	13.1	79	183	273	0015907	7	.681	17.3	162	322	480

* Add C to the end of the part number for CCC approval. Minimums may apply.

OLFLEX® CONTROL TM/ TM CY

Flexible & Oil Resistant Tray and Machine Cable

UL MTW & UL/CSA TC Approval with Exposed Run for Industrial Applications



OLFLEX® CONTROL TM is a multi-conductor cable designed for use on machine tool equipment and other industrial machinery conforming to NFPA 79 2007 wiring norms. OLFLEX® CONTROL TM is also UL/CSA TC approved so it can be routed in tray as well.

Recommended Applications:

Machine tool machinery, Food & beverage, Processing equipment, Machine wiring for conformance to NFPA 79 2007

Application Advantages:

- Industrial grade PVC jacket (Oil Res 1)
- Conforms to NFPA 79 2007 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
- Flexible copper stranding and pressure extruded jacket
- Can be used in damp, dry & wet conditions

OLFLEX® CONTROL TM Construction:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; specially formulated PVC jacket.



OLFLEX® CONTROL TM CY Construction:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; overfoil and tinned copper braid (85% coverage); specially formulated PVC jacket.



Cable Attributes, See Page 653

Oil Resistance: OR-02	Flame Resistance: FR-03
Motion Type: FL-01	Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251
OLFLEX® Tubing: Page 546	SKINDICHT® SDL: Page 533

Available with a foil shield. Minimums may apply.

Technical Data:

Minimum bend radius for installation:	6 x cable diameter	Color Code:	Conductors are black printed with white numbers plus green/yellow ground
Temperature Range:	-40°C to +90°C	Approvals:	UL: - UL Type TC-ER (Exposed Run) - AWM, UL Wet Approval 75°C - Type MTW, NFPA 79 2007 - Class 1, Div. 2 per NEC Art. 336, 392, 501 - UL Bus Drop - 14 AWG & Larger 3c & 4c only**
Nominal voltage:	600V - TC 1000V- TC Wind Turbine (WTTC)	CSA:	- c(UL) CIC/TC FT4 - AWM I/II A/B FT4
Test voltage:	2000V		

OLFLEX® CONTROL TM/ TM CY

Flexible & Oil Resistant Tray and Machine Cable

UL MTW & UL/CSA TC Approval with Exposed Run for Industrial Applications



OLFLEX® CONTROL TM: Flexible and Oil Resistant Tray & Machine Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							12 AWG (56/.0117) 4 mm ²						
281803	3	.291	7.4	19	55	82	281407	7	.457	11.6	105	164	244
281804	4	.315	8.0	25	64	95	281409	9	.563	14.3	135	218	324
281805	5	.340	8.6	31	75	112	281410	10	.609	15.5	149	242	360
281807	7	.367	9.3	44	97	144	281412	12	.628	16.0	179	298	443
281809	9	.423	10.7	56	109	162	281415	15	.693	17.1	224	373	555
281810	10	.457	11.6	63	115	171	281419	19	.729	18.5	284	450	670
281812	12	.471	12.0	75	166	247	281425	25	.872	22.1	374	569	847
281815	15	.520	13.2	94	207	308	281203**	3	.417	10.6	75	111	165
281819	19	.579	14.7	119	263	391	281204**	4	.454	11.5	100	148	220
281825	25	.656	16.7	156	312	464	281205	5	.497	12.6	125	181	269
16 AWG (28/30) 1.50 mm ²							10 AWG (82/.0117) 6 mm ²						
281603	3	.319	8.1	27	67	100	281206	6	.573	14.6	151	250	372
281604	4	.345	8.8	36	80	119	281207	7	.573	14.6	176	324	482
281605	5	.375	9.5	45	95	141	281209	9	.665	16.9	226	360	536
281606	6	.406	10.3	54	123	183	281212	12	.745	18.9	301	432	643
281607	7	.406	10.3	64	123	183	281215	15	.825	21.0	376	540	804
281609	9	.470	11.9	82	166	247	281219	19	.909	23.1	477	684	1018
281610	10	.509	12.9	91	184	273	281220	20	.955	24.3	502	720	1071
281612	12	.551	14.1	109	213	317	281225	25	1.036	26.3	627	900	1339
281615	15	.621	15.8	145	246	366	281003**	3	.492	11.0	110	193	287
281618	18	.644	16.4	174	289	431	281004**	4	.570	14.5	147	257	382
281619	19	.644	16.4	172	286	426	281005	5	.623	15.8	184	307	457
281620	20	.676	17.2	181	301	448	281007	7	.678	17.2	257	430	640
281625	25	.733	18.6	227	312	464	281009	9	.791	20.1	331	549	817
14 AWG (46/30) 2.50 mm ²							8 AWG (52/.0117) 8 mm ²						
281403**	3	.356	8.9	45	84	125	281012	12	.930	23.6	441	737	1097
281404**	4	.386	9.8	60	104	155	281019	19	1.084	27.5	698	1178	1753
281405	5	.421	10.7	75	124	185							

** Meets UL Bus Drop Approval

OLFLEX® CONTROL TM CY: Shielded Flexible and Oil Resistant Tray & Machine Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							12 AWG (56/.0117) 4 mm ²						
281803CY	3	.316	8.0	34	80	119	281409CY	9	.594	14.3	171	294	438
281804CY	4	.339	8.6	46	92	137	281410CY	10	.640	16.3	187	321	477
281805CY	5	.365	9.3	54	100	149	281412CY	12	.659	16.7	226	400	595
281807CY	7	.392	10.0	68	130	193	281415CY	15	.724	18.4	281	440	655
281809CY	9	.454	11.5	92	167	249	281419CY	19	.760	19.3	359	527	784
281810CY	10	.457	11.6	99	191	284	281425CY	25	.903	22.9	474	704	1048
281812CY	12	.502	12.8	107	222	330	281203CY**	3	.448	11.4	115	160	238
281815CY	15	.583	14.8	138	258	384	281204CY**	4	.485	12.3	146	212	315
281819CY	19	.610	15.5	174	294	438	281205CY	5	.560	14.2	172	261	388
281825CY	25	.687	17.5	213	386	574	281206CY	6	.573	14.6	199	289	430
16 AWG (28/30) 1.50 mm ²							10 AWG (82/.0117) 6 mm ²						
281603CY	3	.344	8.7	48	97	144	281207CY	7	.604	15.3	225	453	674
281604CY	4	.370	9.4	61	116	173	281209CY	9	.696	17.7	301	504	750
281605CY	5	.400	10.2	70	127	189	281212CY	12	.776	19.7	401	604	899
281606CY	6	.406	10.3	81	142	212	281215CY	15	.825	21.0	501	610	908
281607CY	7	.437	11.1	91	165	246	281219CY	19	.909	23.1	602	759	1130
281609CY	9	.501	12.7	117	211	314	281220CY	20	.986	25.0	627	1008	1500
281610CY	10	.512	12.9	131	234	348	281225CY	25	1.067	27.1	752	1260	1875
281612CY	12	.588	14.9	156	286	426	281003CY**	3	.555	14.1	155	270	402
281615CY	15	.644	16.4	186	300	447	281004CY**	4	.601	15.3	196	371	552
281619CY	19	.675	17.1	230	340	506	281005CY	5	.654	16.6	238	412	613
281620CY	20	.676	17.2	241	354	527	281007CY	7	.709	18.0	316	575	856
281625CY	25	.764	19.4	292	476	708	281009CY	9	.822	20.9	396	768	1143
14 AWG (46/30) 2.50 mm ²							8 AWG (52/.0117) 8 mm ²						
281403CY**	3	.381	9.7	69	121	180	281012CY	12	.961	24.4	531	1031	1534
281404CY**	4	.411	10.4	86	150	223	281019CY	19	1.084	27.5	878	1319	1963
281405CY	5	.452	11.5	106	180	268							
281407CY	7	.488	12.4	136	220	327							

OLFLEX® CONTROL COLD

Flexible & Cold Temperature Tray Cable with UL/CSA

-40°C Flexible/ -55°C Stationary



OLFLEX® CONTROL COLD is a multi-conductor cable designed to be flexible at -40°C. The specially formulated PVC compound passes the -50° C MIL-DTL-915C motion test and -55°C UL cold impact.

Recommended Applications:

Wind energy, Forestry equipment, Oil & petrochem equipment, Cold temperature storage & packaging facilities

Application Advantages:

- Arctic grade PVC jacket (-40°C flexible)
- Passes MIL-DTL-915C figure 8 motion test at -50°C
- Comparable performance for flexibility vs. Rubber, TPE and PUR jacketed cables
- Can be used in damp, dry & wet conditions and is UV resistant

OLFLEX® CONTROL COLD Construction:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; specially formulated black PVC jacket.



Cable Attributes, See Page 653 Oil Resistance: OR-01 Motion Type: FL-01 Flame Resistance: FR-03 Mechanical Properties: MP-03		Availability: Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.	Complete the installation with: SKINTOP® Strain Relief: Page 486 OLFLEX® Tubing: Page 546 EPIC® Connectors: Page 251 SKINTOP® MS-SC Page 486
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Additional color code for the conductors and the jacket are available upon request. Minimums may apply.

Technical Data:

- Minimum Bend Radius for installation: 5 x cable diameter
- Temperature Range: -55°C to +90°C
- Nominal Voltage: 600V - TC
1000V- TC Wind Turbine (WTTTC)
- Conductor Stranding: Fine wire
- Color Code: Black with white numbers plus grn/yel ground
- Approvals:
 - UL: - Type TC-ER (Exposed Run) or DP-1
 - Type MTW or UL AWM, NFPA 79 2007
 - Wet Rating UL 83 75°C
 - Class 1, Div. 2 per NEC Art. 336, 392, 501
 - CSA: - c(UL) Type TC and CIC FT4
 - CSA-AWM I/II A/B FT4

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							12 AWG (56/.0117) 4 mm ²						
261803	3	.297	7.5	19	57	85	261407	7	.463	11.8	105	169	252
261804	4	.320	8.1	25	66	98	261409	9	.571	14.5	135	225	335
261805	5	.346	8.8	31	77	115	261412	12	.636	16.2	179	308	459
261807	7	.373	9.5	44	100	149	261418	18	.737	18.7	269	439	654
261809	9	.429	10.9	56	112	167	261425	25	.886	22.5	374	587	874
261812	12	.477	12.1	75	171	255	10 AWG (82/.0117) 6 mm ²						
261818	18	.587	14.9	113	245	365	261204	4	.460	11.7	100	152	226
261825	25	.677	17.2	156	322	479	261205	5	.503	12.8	125	187	279
16 AWG (28/30) 1.50 mm ²							261207	7	.581	14.8	176	258	384
261603	3	.325	8.3	27	69	103	8 AWG (74/.0159) 10 mm ²						
261604	4	.351	8.9	36	83	124	261004	4	.578	14.7	147	265	394
261605	5	.381	9.7	45	98	146	261005	5	.631	16.0	184	317	472
261607	7	.412	10.5	64	127	189	261007	7	.686	17.4	257	443	661
261609	9	.476	12.1	82	171	255	6 AWG (119/.0159) 16 mm ²						
261612	12	.565	14.4	109	220	328	260804	4	.703	17.9	245	412	615
261616	16	.621	15.8	145	271	403	260805	5	.772	19.6	306	518	771
261618	18	.652	16.6	163	289	431	4 AWG (182/.04) 25 mm ²						
261625	25	.741	18.8	227	397	592	260604	4	.899	22.8	393	580	864
14 AWG (46/30) 2.50 mm ²							260605	5	.982	24.9	491	725	1080
261403	3	.362	9.2	45	87	130	2 AWG (273/.04) 35 mm ²						
261404	4	.392	10.0	60	107	159	260404	4	1.094	27.8	541	952	1418
261405	5	.427	10.8	75	128	191	260204	4	1.272	32.3	853	1394	2077

OLFLEX® CLASSIC 100/ 100 CY



Flexible Power and Control Cable
Color Coded

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

Recommended Applications:

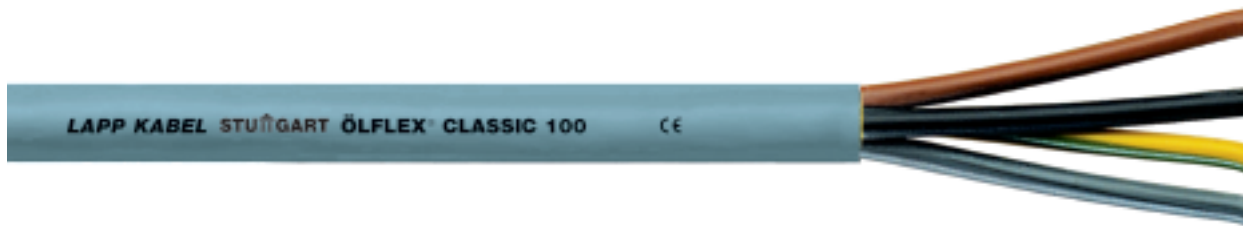
Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machinery specifications

Application Advantages:

- 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

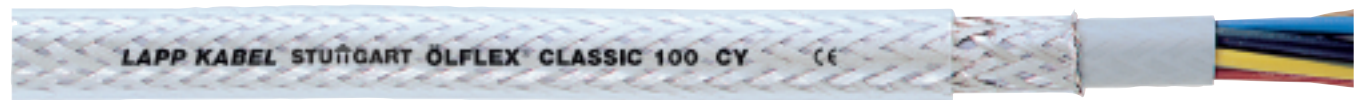
OLFLEX® CLASSIC 100 Construction:



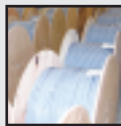






Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray PVC jacket.










OLFLEX® CLASSIC 100 CY Construction:

Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray PVC inner jacket, tinned copper braid (85% coverage); transparent PVC jacket.



Cable Attributes, See Page 653			Availability:		Complete the installation with:				
	Oil Resistance: OR-01		Flame Resistance: FR-02		Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.		SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	Motion Type: FL-01		Mechanical Properties: MP-01				OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

	Minimum Bend Radius - for installation: - with shield:	4 x cable diameter 6 x cable diameter		Conductor Stranding:	Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5
	Temperature Range:	-40°C to +80°C		Color Code:	Chart 6, Page 673
	Nominal Voltage:	300/500 V (≤ 16 AWG) 450/750 V (≥ 14 AWG)		Approvals:	Based on VDE specifications
	Test Voltage:	4000V			

OLFLEX® CLASSIC 100/ 100 CY



Flexible Power and Control Cable
Color Coded

OLFLEX® CLASSIC 100: Flexible Power & Control

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
(300/500 V)							6 AWG (128/26) 16 mm²						
21 AWG (16/32) 0.50 mm ²							0010302	3	.720	18.3	310	612	911
0010000	2	.213	5.4	7	28	42	00101123	4	.803	20.4	413	730	1087
0010001	3	.224	5.7	10	34	50	00101133	5	.898	22.8	516	921	1370
00100023	4	.244	6.2	13	40	60	4 AWG (200/26) 25 mm²						
00100033	5	.264	6.7	16	48	71	0010303	3	.906	23.0	484	932	1388
18 AWG (32/32) 1.00 mm²							00101153						
0010041	2	.256	6.5	13	43	64	00101163	4	1.000	25.4	645	1063	1582
0010042	3	.272	6.9	19	52	78	2 AWG (280/26) 35 mm²						
00100433	4	.303	7.7	26	65	97	0010304	3	1.008	25.6	677	1187	1766
00100443	5	.331	8.4	32	70	105	00101173	4	1.112	28.5	903	1416	2106
(450/750 V)							00101183						
16 AWG (30/30) 1.50 mm²							1 AWG (400/26) 50 mm²						
0010063	2	.295	7.5	19	58	87	0010305	3	1.220	31.0	968	1718	2556
0010064	3	.319	8.1	29	73	109	00101193	4	1.358	34.5	1290	1978	2943
00100653	4	.350	8.9	39	89	133	2/0 AWG (560/26) 70 mm²						
00100663	5	.394	10.0	48	110	163	0010306	3	1.390	35.3	1355	2139	3182
14 AWG (50/30) 2.50 mm²							00101203						
0010086	2	.350	8.9	32	86	128	3/0 AWG (485/24) 95 mm²						
0010087	3	.378	9.6	48	109	162	0010307	3	1.626	41.3	1839	3142	4675
00100883	4	.421	10.7	65	136	203	00101213	4	1.803	45.8	2451	3717	5538
00100893	5	.465	11.8	81	163	242	4/0 AWG (614/24) 120 mm²						
12 AWG (56/28) 4 mm²							0010308						
0010100	2	.417	10.6	52	126	187	00103093	4	2.043	51.9	3096	4694	6994
00101013	4	.500	12.7	103	200	297	300 KCMIL (765/24) 150 mm²						
00101023	5	.547	13.9	129	239	355	00103113	4	2.319	58.9	3871	4570	6800
10 AWG (84/28) 6 mm²							350 KCMIL (942/24) 185 mm²						
0010105	3	.496	12.6	116	214	318	00103123	4	2.437	61.9	4774	5578	8300
00101063	4	.543	13.8	155	265	394	500 KCMIL (1225/24) 240 mm²						
00101073	5	.614	15.6	194	329	489	00103103	4	2.996	76.1	6193	7090	10550
8 AWG (80/26) 10 mm²													
0010301	3	.626	15.9	194	342	516							
00101093	4	.693	17.6	258	437	650							
00101103	5	.776	19.7	323	532	792							

OLFLEX® CLASSIC 100 CY: Shielded Flexible Power & Control

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
(300/500)							8 AWG (80/26) 10 mm²						
21 AWG (16/32) 0.50 mm ²							00350213	4	.831	21.1	375	566	843
0035001	2	.276	7.0	28	50	75	00352903	5	.909	23.1	480	675	1004
0035002	3	.287	7.3	31	56	83	6 AWG (128/26) 16 mm²						
00350033	4	.311	7.9	37	67	99	00350223	4	.941	23.9	540	936	1395
00352013	5	.331	8.4	44	75	112	00350153	5	1.055	26.8	706	1216	1812
18 AWG (32/32) 1.00 mm²							4 AWG (200/26) 25 mm²						
0035220	2	.311	7.9	38	66	98	00350233	4	1.157	29.4	866	1279	1903
0035221	3	.323	8.2	44	75	111	00350243	5	1.283	32.6	972	1595	2374
00352223	4	.343	8.7	52	87	130	2 AWG (280/26) 35 mm²						
00352233	5	.374	9.5	60	103	153	00350253	4	1.276	32.4	1138	1673	2489
(450/750 V)							00350263						
16 AWG (30/30) 1.50 mm²							1 AWG (400/26) 50 mm²						
0035000	2	.390	9.9	44	89	132	00350273	4	1.409	38.8	1574	2259	3362
0035458	3	.406	10.3	53	114	170	2/0 AWG (560/26) 70 mm²						
00354593	4	.445	11.3	65	137	204	00350283	4	1.720	43.7	2039	2499	3719
00354603	5	.496	12.6	78	165	246	3/0 AWG (485/24) 95 mm²						
14 AWG (50/30) 2.50 mm²							00350293						
0035011	3	.465	11.8	98	142	211	00350293	4	1.984	50.4	2725	3931	5849
00350173	4	.531	13.5	112	208	310	4/0 AWG (614/24) 120 mm²						
00350123	5	.575	14.6	134	219	326	00354303	4	2.236	56.8	3511	5046	7509
12 AWG (56/28) 4 mm²							300 KCMIL (765/24) 150 mm²						
00350183	4	.594	15.1	159	271	403	00354313	4	2.449	62.2	4233	5242	7800
00350133	5	.650	16.5	220	321	478	350 KCMIL (944/24) 185 mm²						
10 AWG (84/28) 6 mm²							00354323						
00350193	4	.654	16.6	214	352	524	00354323	4	2.669	67.8	5210	6630	9866
00350143	5	.717	18.2	296	419	624							

OLFLEX® CLASSIC 100 SY



Steel Braided, Flexible Power Control Cable
Color Coded

OLFLEX® CLASSIC 100 SY is a color coded, multi-conductor control and power cable with a 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 and other 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

OLFLEX® CLASSIC 100 SY Construction:

Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray inner PVC jacket; steel braid (75% coverage); transparent PVC jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

- | | | | |
|--|--|----------------------|---|
| Minimum Bending Radius for installation: | 6 x cable diameter | Conductor Stranding: | Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5 |
| Temperature Range: | -40°C to +80°C | Color Code: | Chart 6, Page 673 |
| Nominal Voltage: | 300/500V (≤ 18 AWG)
450/750V (≥ 16 AWG) | Approvals: | Based on VDE specifications |
| Test Voltage: | 4000V | | |

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	kg/m	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	kg/m	Approx. Weight lbs/mft	kg/km
(300/500 V)								10 AWG (84/28) 6 mm²							
21 AWG (16/32) 0.50 mm ²								0016106	3	.622	15.8	116	365	544	
0016001	2	.307	7.8	7	58	87		00161073	4	.677	17.2	155	461	687	
0016002	3	.319	8.1	10	64	95		00161083	5	.740	18.8	194	536	798	
00160033	4	.335	8.5	13	72	107		8 AWG (80/26) 10 mm²							
00160043	5	.362	9.2	16	83	123		00161103	4	.838	21.3	258	677	1009	
18 AWG (32/32) 1.00 mm²								00161113	5	.917	23.3	323	803	1197	
0016042	2	.335	8.5	13	92	137		6 AWG (128/26) 16 mm²							
0016043	3	.346	8.8	19	103	154		00161133	4	.949	24.1	413	929	1384	
00160443	4	.374	9.5	26	121	180		00161143	5	1.055	26.8	516	1168	1740	
00160453	5	.398	10.1	32	136	202		4 AWG (200/26) 25 mm²							
(450/750 V)								00161163	4	1.157	29.4	645	1356	2021	
16 AWG (30/30) 1.50 mm ²								00161173	5	1.283	32.6	806	1654	2464	
0016064	2	.366	9.3	19	115	172		2 AWG (280/26) 35 mm²							
0016065	3	.382	9.7	29	128	191		00161183	4	1.276	32.4	903	1725	2570	
00160663	4	.402	10.2	39	146	217		00161193	5	1.417	36.0	1129	2138	3185	
00160673	5	.437	11.1	48	180	268		1 AWG (400/26) 50 mm²							
14 AWG (50/30) 2.50 mm²								00161203	4	1.528	38.8	1290	2358	3514	
0016087	2	.476	12.1	32	164	245		2/0AWG (560/26) 70 mm²							
0016088	3	.496	12.6	48	187	278		00161213	4	1.720	43.7	1806	3228	4809	
00160893	4	.547	13.9	65	228	339		3/0 AWG (485/24) 95 mm²							
00160903	5	.598	15.2	81	267	397		00161223	4	1.984	50.4	2451	4269	6361	
12 AWG (56/28) 4 mm²															
0016101	2	.535	13.6	52	221	329									
00161023	4	.618	15.7	103	307	457									
00161033	5	.673	17.1	129	366	545									

** Additional configurations are available, please call your Lapp representative for more information.

OLFLEX® CLASSIC 110/ 110 CY



Flexible Control Cable
Number Coded

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

Recommended Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machinery specifications

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

OLFLEX® CLASSIC 110 Construction:





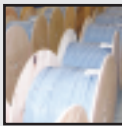




Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray PVC jacket.










OLFLEX® CLASSIC 110 CY Construction:

Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray PVC inner jacket, tinned copper braid (85% coverage); transparent PVC jacket.



Cable Attributes, See Page 653  Oil Resistance: OR-01  Flame Resistance: FR-02  Motion Type: FL-01  Mechanical Properties: MP-01		Availability:  Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with:  SKINTOP® Strain Relief: Page 486  OLFLEX® Tubing: Page 546  EPIC® Connectors: Page 251  SKINTOP® MS-SC Page 486
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Technical Data:

 Minimum Bend Radius: - for installation: 4 x cable diameter - with shield: 6 x cable diameter	 Conductor Stranding: Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5
 Temperature Range: -40°C to +80°C	 Color Code: Black with white numbers, plus green/yellow ground
 Nominal Voltage: 300/500V	 Approvals: VDE Reg. No. 7030
 Test Voltage: 4000V	

OLFLEX® CLASSIC 110/ 110 CY



Flexible Control Cable
Number Coded

OLFLEX® CLASSIC 110: Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
21 AWG (16/32) 0.50 mm ²							14 AWG (50/30) 2.50 mm ²						
1119752	2	.189	4.8	7	24	35	1119325	25	.665	16.9	242	376	560
1119003	3	.201	5.1	10	28	42	1119334	34	.764	19.4	329	501	746
1119004	4	.224	5.7	13	36	54	1119341	41	.839	21.3	397	602	895
1119005	5	.244	6.2	16	42	63	1119350	50	.925	23.5	484	732	1089
1119007	7	.264	6.7	23	54	81	1119365	65	1.051	26.7	629	940	1398
1119012	12	.350	8.9	39	88	131	1119380	80	1.134	28.8	774	1148	1708
1119018	18	.413	10.5	58	126	188	12 AWG (56/28) 4 mm ²						
1119025	25	.488	12.4	81	175	261	1119503	3	.390	9.9	77	135	201
1119035	35	.571	14.5	113	172	256	1119504	4	.425	10.8	103	167	249
1119052	52	.681	17.3	168	347	517	1119505	5	.476	12.1	129	205	305
1119065	65	.772	19.6	210	433	644	1119507	7	.528	13.4	181	274	407
1119080	80	.831	21.1	258	524	780	1119511	11	.693	17.6	284	426	634
1119100	100	.929	23.6	323	655	975	10 AWG (84/28) 6 mm ²						
18 AWG (32/32) 1.00 mm ²							1119603	3	.461	11.7	116	194	289
1119852	2	.224	5.7	13	36	53	1119604	4	.512	13.0	155	245	365
1119203	3	.236	6.0	19	44	65	1119605	5	.571	14.5	194	300	447
1119204	4	.256	6.5	26	53	79	1119607	7	.630	16.0	271	403	600
1119205	5	.280	7.1	32	63	94	8 AWG (80/26) 10 mm ²						
1119207	7	.315	8.0	45	85	126	1119614	4	.638	16.2	258	397	590
1119212	12	.413	10.5	77	138	205	6 AWG (128/26) 16 mm ²						
1119218	18	.500	12.7	116	202	300	1119624	4	.740	18.8	413	731	1087
1119225	25	.579	14.7	161	274	408	4 AWG (200/26) 25 mm ²						
1119234	34	.673	17.1	258	370	551	1119634	4	.925	23.5	645	1063	1582
1119241	41	.740	18.8	265	444	661	2 AWG (280/26) 35 mm ²						
1119250	50	.811	20.6	323	536	797	1119644	4	1.039	26.4	903	1415	2106
1119265	65	.929	23.6	419	694	1033	1119645	5	1.185	30.1	1129	1771	2635
1119280	80	.996	25.3	516	844	1251	16 AWG (30/30) 1.50 mm ²						
1119300	100	1.114	28.3	645	1048	1560	1119902	2	.248	6.3	19	46	68
16 AWG (30/30) 1.50 mm ²							1119303	3	.264	6.7	29	56	84
1119902	2	.248	6.3	19	46	68	1119304	4	.283	7.2	39	70	104
1119303	3	.264	6.7	29	56	84	1119305	5	.319	8.1	48	86	128
1119304	4	.283	7.2	39	70	104	1119307	7	.350	8.9	68	112	166
1119305	5	.319	8.1	48	86	128	1119312	12	.472	12.0	116	188	279
1119307	7	.350	8.9	68	112	166	1119318	18	.567	14.4	174	274	407
1119312	12	.472	12.0	116	188	279							
1119318	18	.567	14.4	174	274	407							

OLFLEX® CLASSIC 110 CY: Shielded Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
21 AWG (16/32) 0.50 mm ²							14 AWG (50/30) 2.50 mm ²						
1135752	2	.276	7.0	28	50	75	1135304	4	.378	9.6	67	110	163
1135003	3	.287	7.3	31	56	83	1135305	5	.406	10.3	84	126	188
1135004	4	.311	7.9	37	67	99	1135307	7	.445	11.3	132	159	237
1135005	5	.331	8.4	44	75	112	1135312	12	.583	14.8	188	264	393
1135007	7	.350	8.9	54	89	132	1135318	18	.677	17.2	261	362	538
1135012	12	.445	11.3	93	136	202	1135325	25	.791	20.1	360	501	745
1135018	18	.524	13.3	105	194	289	12 AWG (56/28) 4 mm ²						
1135025	25	.598	15.2	168	254	378	1135403	3	.406	10.3	98	129	192
18 AWG (32/32) 1.00 mm ²							1135404	4	.445	11.3	112	157	233
1135852	2	.311	7.9	38	66	98	1135405	5	.496	12.6	134	190	283
1135203	3	.323	8.2	44	75	111	1135407	7	.547	13.9	194	249	371
1135204	4	.343	8.7	52	87	130	10 AWG (84/28) 6 mm ²						
1135205	5	.374	9.5	60	103	153	1135504	4	.528	13.4	159	233	347
1135207	7	.402	10.2	76	124	185	1135505	5	.579	14.7	188	278	413
1135212	12	.524	13.3	126	206	307	8 AWG (80/26) 10 mm ²						
1135218	18	.610	15.5	192	288	418	1135604	4	.622	15.8	214	326	485
1135225	25	.689	17.5	261	366	544	6 AWG (128/26) 16 mm ²						
16 AWG (30/30) 1.50 mm ²							1135614	4	.748	19.0	375	494	735
1135902	2	.335	8.5	44	79	117	1135624	4	.874	22.2	540	934	1395
1135303	3	.350	8.9	56	91	136							

* Additional configurations are available, please call your Lapp representative for more information.

OLFLEX® CLASSIC 110 SY



Steel Braided, Flexible Control Cable
Number Coded

OLFLEX® CLASSIC 110 SY is a number coded, multi-conductor control and power cable with a steel braided 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 and other European influenced machinery specifications

Application Advantage:

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

OLFLEX® CLASSIC 110 SY Construction:

Finely stranded bare copper conductors; PVC insulation; conductors cabled with non-wicking fillers; dry lubricant; gray inner PVC jacket; steel braid (75% coverage); transparent PVC jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-02		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

- | | |
|---|--|
| Minimum Bending Radius for installation: 6 x cable diameter | Conductor Stranding: Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5 |
| Temperature Range: -40°C to +80°C | Color Code: Black with white numbers, plus green/yellow ground |
| Nominal Voltage: 300/500V | Approvals: VDE Reg. No. 7030 |
| Test Voltage: 4000V | |

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
21 AWG (16/32) 0.50 mm ²							14 AWG (50/30) 2.50 mm ²						
1125752	2	.307	7.8	7	58	87	1125307	7	.469	11.9	68	167	248
1125003	3	.319	8.1	10	64	95	1125312	12	.606	15.4	116	266	396
1125004	4	.335	8.5	13	72	107	1125318	18	.693	17.6	174	362	538
1125005	5	.362	9.2	16	83	123	1125325	25	.799	20.3	242	479	713
1125007	7	.382	9.7	23	99	147	12 AWG (56/28) 4 mm ²						
1125012	12	.469	11.9	39	143	213	1125403	3	.437	11.1	48	138	206
1125018	18	.547	13.9	58	196	291	1125404	4	.476	12.1	65	167	249
1125025	25	.614	15.6	81	252	375	1125405	5	.520	13.2	81	198	295
18 AWG (32/32) 1.00 mm ²							1125407	7	.563	14.3	113	251	373
1125852	2	.335	8.5	13	71	106	1125412	12	.717	18.2	194	394	586
1125203	3	.346	8.8	19	80	119	1125418	18	.843	21.4	290	553	823
1125204	4	.374	9.5	26	95	141	1125425	25	.961	24.4	403	734	1093
1125205	5	.398	10.1	32	110	164	10 AWG (84/28) 6 mm ²						
1125207	7	.433	11.0	45	134	200	1125503	3	.472	12.7	77	192	285
1125212	12	.547	13.9	77	208	309	1125504	4	.551	14.0	103	234	348
1125218	18	.626	15.9	116	279	415	1125505	5	.594	15.1	129	276	410
1125225	25	.713	18.1	161	368	548	8 AWG (80/26) 10 mm ²						
16 AWG (30/30) 1.50 mm ²							1125604	4	.638	16.2	155	324	482
1125902	2	.366	9.3	19	86	128	1125605	5	.697	17.7	194	389	579
1125303	3	.382	9.7	29	101	151	6 AWG (128/26) 16 mm ²						
1125304	4	.402	10.2	39	116	173	1125614	4	.764	19.4	258	491	731
1125305	5	.437	11.1	48	136	202	1125624	4	.882	22.4	413	930	1384

* Additional configurations are available, please call your Lapp representative for more information.

OLFLEX® CLASSIC 110 Black 1000V



UV Resistant Control Cable with Numbered Conductors

OLFLEX® CLASSIC 110 is a number coded, multi-conductor control and power cable 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 and other European influenced machinery specifications

Application Advantage:

- 1000V European control cable
- Conforms to CE standards
- Pressure extruded jacket for improved flexibility
- Black UV resistant jacket for outdoor use.

OLFLEX® CLASSIC 110 Black Construction:

Finely stranded bare copper conductors, PVC insulation, conductors cabled with non-wicking fillers, black PVC jacket.



Cable Attributes, See Page 653

Oil Resistance: OR-01	Flame Resistance: FR-02
Motion Type: FL-01	Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251
OLFLEX® Tubing: Page 546	SKINTOP® MS-SC Page 486

Technical Data:

- | | |
|---|--|
| Minimum Bending Radius for installation: 4 x cable diameter | Conductor Stranding: Fine Wire per VDE 0295, Class 5, IEC 60228 CL.5 |
| Temperature Range: -30°C to +80°C | Color Code: Black with white numbers, plus green/yellow ground |
| Nominal Voltage: 600/1000V | Approvals: Based on VDE specifications |
| Test Voltage: 4000V | |

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (32/32) 1.00 mm ²							12 AWG (56/28) 4 mm ²						
1120267	3	.354	9.0	19	75	112	1120353	25	1.016	25.8	403	735	1094
1120269	4	.378	9.6	26	88	131	1120360	4	.543	13.8	103	218	324
1120271	5	.409	10.4	32	102	152	1120361	5	.594	15.1	129	259	385
1120274	7	.437	11.1	45	132	196	1120362	7	.646	16.4	181	345	513
1120280	12	.551	14.0	77	192	286	10 AWG (84/28) 6 mm ²						
1120284	18	.634	16.1	116	282	419	1120366	4	.594	15.1	155	297	442
1120290	25	.732	18.6	161	384	572	8 AWG (80/26) 10 mm ²						
16 AWG (30/30) 1.50 mm ²							1120370	4	.736	18.7	258	475	707
1120307	3	.398	10.1	29	97	144	6 AWG (128/26) 16 mm ²						
1120309	4	.425	10.8	39	114	170	1120374	4	.839	21.3	413	739	1100
1120311	5	.461	11.7	48	134	199	4 AWG (200/26) 25 mm ²						
1120314	7	.496	12.6	68	175	261	1120378	4	1.031	26.2	645	1075	1600
1120320	12	.634	16.1	116	268	399	2 AWG (280/26) 35 mm ²						
1120324	18	.740	18.8	174	368	547	1120382	4	1.146	29.1	903	1613	2400
1120328	25	.854	21.7	242	517	770	1 AWG (400/26) 50 mm ²						
14 AWG (50/30) 2.50 mm ²							1120385	4	1.402	35.6	1290	2285	3400
1120340	3	.445	11.3	48	122	182	2/0 AWG (560/26) 70 mm ²						
1120342	4	.480	12.2	65	151	225	1120387	4	1.602	40.7	1839	3393	5050
1120344	5	.524	13.3	81	179	266	3/0 AWG (485/24) 95 mm ²						
1120346	7	.567	14.4	113	238	354	1120389	4	1.843	46.8	2451	4038	6010
1120349	12	.736	18.7	194	363	540	4/0 AWG (614/24) 120 mm ²						
1120351	18	.866	22.0	290	529	788	1120390	4	2.106	53.5	3096	5040	7500

* Additional configurations are available, please call your Lapp representative for more information.

OLFLEX® CLASSIC 110 H/ 110 CH



Oil Resistant, Halogen-Free Control Cable
LSF OH (Low Smoke & Fume, Zero Halogen)

OLFLEX® CLASSIC 110 H is a halogen-free, 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 resistant at normal temperatures and is available unshielded and shielded.

Recommended Applications:

Amusement rides, Theater stages and other areas where human safety is a concern. Also suitable, on machinery due to its improved oil resistance.

Application Advantage:

- Completely recyclable, low toxicity of smoke gases (NES 713 Part 3) and low smoke density (IEC 61034)
- No flame propagation for cables ≥ 18/7c (IEC 60332-3-24) and flame retardant (IEC 60332-1-2)
- Oil resistant (SEV TB 20 B)
- Hydrolysis resistant (HD 22.10)

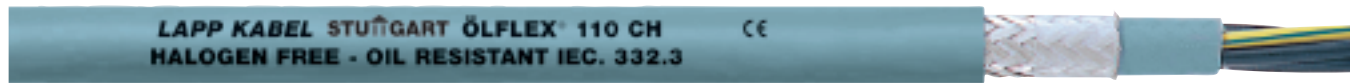
OLFLEX® CLASSIC 110 H Construction:

Finely stranded bare copper conductors, halogen-free polymer compound, specially formulated oil resistant gray halogen-free polymer jacket



OLFLEX® CLASSIC 110 CH Construction:

Finely stranded bare copper conductors, halogen-free polymer compound, halogen-free inner jacket, tinned copper braid shield (85% coverage), specially formulated oil resistant gray halogen-free polymer jacket



Cable Attributes, See Page 653

	Oil Resistance: OR-03		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

Minimum Bend Radius - for installation: 4 x cable diameter - with shield: 6 x cable diameter	Conductor Stranding: Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5
Temperature Range: -40°C to +80°C	Color Code: Black with white numbers, plus green/yellow ground
Nominal Voltage: 300/500V	Approvals: Based on VDE specifications
Test Voltage: 4000V	

OLFLEX® CLASSIC 110 H/ 110 CH



Oil Resistant, Halogen-Free Control Cable
LSF OH (Low Smoke & Fume, Zero Halogen)

OLFLEX® CLASSIC 110 H: Oil Resistant Halogen-Free Control Cables

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight	Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight	Approx. Weight	
		inches	mm	lbs/mft	lbs/mft	kg/km			inches	mm	lbs/mft	lbs/mft	kg/km
21 AWG (16/32) 0.50 mm ²							14 AWG (50/30) 2.50 mm ²						
0019901	3	.217	5.5	10	32	47	0019945	3	.346	8.8	48	102	152
0019903	4	.232	5.9	13	38	57	0019946	4	.378	9.6	65	129	192
0019905	5	.256	6.5	16	44	66	0019947	5	.433	11.0	81	163	243
0019906	7	.295	7.5	23	57	85	0019948	7	.508	12.9	113	208	310
0019907	12	.335	8.5	39	89	133	0019949	12	.598	15.2	194	352	524
18 AWG (32/32) 1.00 mm ²							12 AWG (56/28) 4 mm ²						
0019961	3	.244	6.2	19	49	73	0019950	4	.441	11.2	103	201	299
0019963	4	.268	6.8	26	57	85	0019951	5	.480	12.2	129	244	363
0019965	5	.291	7.4	32	71	105	0019952	7	.567	14.4	181	328	488
0019967	7	.362	9.2	45	88	131	10 AWG (84/28) 6 mm ²						
0019969	12	.433	11.0	77	148	220	0019953	4	.520	13.2	155	323	480
0019971	18	.504	12.8	116	212	315	0019954	5	.587	14.9	194	392	583
0019972	25	.634	16.1	161	302	449	0019975	7	.693	17.6	271	525	782
16 AWG (30/30) 1.50 mm ²													
0019931	3	.272	6.9	29	64	95							
0019932	4	.295	7.5	39	79	117							
0019933	5	.339	8.6	48	97	144							
0019934	7	.417	10.6	68	123	183							
0019935	12	.484	12.3	116	206	307							
0019937	18	.567	14.4	174	312	465							
0019938	25	.732	18.6	242	440	655							

OLFLEX® CLASSIC 110 CH: Oil Resistant Shielded Halogen-Free Control Cables

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight	Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Copper Weight	Approx. Weight	
		inches	mm	lbs/mft	lbs/mft	kg/km			inches	mm	lbs/mft	lbs/mft	kg/km
21 AWG (16/32) 0.50 mm ²							12 AWG (56/28) 4 mm ²						
0035031	3	.287	7.3	31	71	106	0035094	4	.528	13.4	159	308	458
0035033	4	.303	7.7	37	83	123	0035095	5	.579	14.7	188	357	532
0035035	5	.327	8.3	44	90	134	0035096	7	.717	18.2	261	515	766
0035036	7	.390	9.9	54	108	160	10 AWG (84/28) 6 mm ²						
0035037	12	.441	11.2	91	159	237	0035097	4	.606	15.4	214	411	611
18 AWG (32/32) 1.00 mm ²							0035098	5	.717	18.2	304	517	770
0035056	3	.315	8.0	44	94	140	0035099	7	.823	20.9	353	695	1035
0035058	4	.362	9.2	52	108	160	8 AWG (80/26) 10 mm ²						
0035060	5	.386	9.8	60	122	182	0035380	4	.961	24.4	375	663	986
0035061	7	.441	11.2	76	144	215	6 AWG (128/26) 16 mm ²						
0035062	12	.520	13.2	126	237	352	0035382	4	.098	27.9	540	899	1338
0035063	18	.606	15.4	192	345	514	4 AWG (200/26) 25 mm ²						
0035064	25	.760	19.3	261	455	677	0035384	4	1.287	32.7	866	1363	2028
16 AWG (30/30) 1.50 mm ²							2 AWG (280/26) 35 mm ²						
0035068	3	.366	9.3	56	126	187	0035386	4	1.449	36.8	1138	1780	2649
0035070	4	.390	9.9	67	135	201	1 AWG (400/26) 50 mm ²						
0035071	5	.417	10.6	84	155	231	0035388	4	1.669	42.4	1574	2514	3741
0035072	7	.504	12.8	132	208	310	2/0 AWG (560/26) 70 mm ²						
0035073	12	.571	14.5	188	339	505	0035390	4	1.874	47.6	1998	3396	5054
0035074	18	.717	18.2	261	451	671	3/0 AWG (485/24) 95 mm ²						
0035075	25	.850	21.6	360	642	955	0035392	4	2.035	51.7	2725	4319	6427
14 AWG (50/30) 2.50 mm ²													
0035089	3	.425	10.8	98	142	211							
0035090	4	.457	11.6	112	239	356							
0035091	5	.520	13.2	134	259	386							
0035092	7	.610	15.5	194	335	498							
0035093	12	.748	19.0	321	612	911							

OLFLEX® CLASSIC 130 H A/ 135 CH A



Flexible Halogen-Free Cable with UL Approval

OLFLEX® CLASSIC 130 H A is a halogen-free, multi-conductor control and power cable with low smoke and flame protection. It is UL AWM and VW-1 approved. OLFLEX® CLASSIC 135 CH A is a shielded cable with an overall tinned copper braid for EMI & RFI protection.

Recommended Applications:

Amusement rides, Theater stages, and other areas where human safety is a concern. Also suitable, on machinery where there is a high risk for fire.

OLFLEX® CLASSIC 130 H A Construction:

Finely stranded bare copper conductors, halogen-free polymer compound, specially formulated oil resistant gray halogen-free polymer jacket



OLFLEX® CLASSIC 135 CH A Construction:

Finely stranded bare copper conductors, halogen-free polymer compound, halogen-free inner jacket, tinned copper braid shield (85% coverage), specially formulated oil resistant gray halogen-free polymer jacket



Application Advantage:

- Completely recyclable, low toxicity of smoke gases and low smoke density
- No flame propagation for cables ≥ 18/7c (IEC 60332-3-24) and flame retardant (IEC 60332-1-2)
- Hydrolysis resistant (HD 22.10)
- UL AWM style 21089 & VW-1

Cable Attributes, See Page 653

	Oil Resistance: OR-01		Flame Resistance: FR-02
	Motion Type: FL-01		Mechanical Properties: MP-01

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Other configurations are available upon request. Minimums may apply.

Technical Data:

- | | | | |
|-----------------------|------------------------|-----------------|---|
| | Minimum Bending Radius | | Test Voltage: |
| - 130 H A: | 4 x cable diameter | - core/ core: | 4000V |
| - 135 CH A: | 6 x cable diameter | - core/ shield: | 2000V |
| | Temperature Range: | | Color Code: |
| - for flexible use: | -15°C to +70°C | | Black with white numbers, plus grn/yel gnd, 2 conductor does not include ground |
| - for stationary use: | -40°C to +70°C | | Approvals: |
| | Nominal Voltage: | UL: | - AWM 10701 & 21089
- UL 1581 VW-1 |
| | 600V | Additional: | - Flame Retardant
- IEC 60332-3-24
- IEC 60332-1-2 |

OLFLEX® CLASSIC 130 H A

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
16 AWG (1.50 mm ²)							1123111A	5	.319	8.1	48	91	135
1123106A	2	.248	6.3	19	48	72	1123114A	7	.350	8.9	68	117	174
1123107A	3	.264	6.7	29	59	88	14 AWG (2.50 mm ²)						
1123109A	4	.287	7.3	39	74	110	1123142A	4	.350	8.9	65	117	174

OLFLEX® CLASSIC 135 CH A

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
16 AWG (1.50 mm ²)							1123311A	5	.350	8.9	80	108	161
1123306A	2	.280	7.1	44	61	91	14 AWG (2.50 mm ²)						
1123307A	3	.295	7.5	55	75	112	1123342A	4	.390	9.9	99	135	201
1123309A	4	.323	8.2	67	95	141							

*2 conductor does not include ground wire.

OLFLEX® 490 P/ 490 CP

Flexible Control Cable with Polyurethane Jacket



OLFLEX® 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. OLFLEX® 490 CP is the shielded version with an overall foil tape with drain wire and tinned copper braid for EMI & RFI protection.

Recommended Applications:

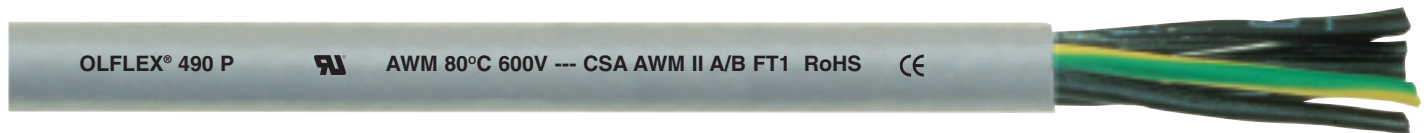
Machine tool equipment, Hand held controls, Submersible applications and any areas where the cable can be cut and damaged by sharp objects.

Application Advantage:

- Rugged PUR jacket to resist cuts, nicks and abrasion
- UL & CSA AWM approved
- Extremely oil and chemical resistant
- Able to be dragged on the floor with minimal damage if any at all
- Number coded for easy wiring

OLFLEX® 490 P Construction:









Finely stranded bare copper conductors; specially blended PVC insulation; non-wicking fillers; dry lubricant; overall tape wrap; specially formulated oil resistant gray polyurethane jacket.










OLFLEX® 490 CP Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; non-wicking fillers; dry lubricant; overall foil tape wrap with drain wire; tinned copper braid (85% coverage); specially blended oil resistant gray polyurethane jacket.



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

Technical Data:

 Minimum Bend Radius		 Conductor Stranding:	Fine wire
- for installation:	4 x cable diameter	 Color Code:	Black with white numbers, plus green/yellow ground
- shielded:	6 x cable diameter	 Approvals:	UL: AWM Style 20234 CSA: AWM II A/B FT1
 Temperature Range:			
- for flexible use:	-10°C to +80°C		
- stationary applications:	-20°C to +80°C		
 Nominal Voltage:	600V		
 Test Voltage:	3000V		

OLFLEX® 490 P/ 490 CP

Flexible Control Cable with Polyurethane Jacket



OLFLEX® 490 P: Flexible Control Cable with Polyurethane Jacket

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
20 AWG (10/30) 0.50 mm ²							16 AWG (26/30) 1.50 mm ²						
402002	2	.245	6.2	7	35	52	401602	2	.295	7.5	18	53	79
402003	3	.256	6.5	10	39	58	401603	3	.310	7.9	27	63	94
402004	4	.274	7.0	13	47	70	401604	4	.333	8.5	36	77	115
402005	5	.293	7.4	17	54	80	401605	5	.360	9.1	45	91	135
402007	7	.313	8.0	23	67	100	401607	7	.388	9.9	64	114	170
402009	9	.355	9.0	30	81	121	401609	9	.446	11.3	82	142	211
402012	12	.401	10.2	40	98	146	401612	12	.496	12.6	109	179	266
402018	18	.459	11.7	60	138	205	401618	18	.574	14.6	163	254	378
402025	25	.534	13.6	83	176	262	401625	25	.654	16.6	227	335	499
18 AWG (19/30) 1.00 mm ²							14 AWG (41/30) 2.50 mm ²						
401802	2	.269	6.8	13	45	67	401402	2	.329	8.4	30	66	98
401803	3	.281	7.1	19	52	77	401403	3	.347	8.8	45	76	113
401804	4	.303	7.7	25	64	95	401404	4	.374	9.5	60	101	150
401805	5	.325	8.3	31	75	112	401405	5	.406	10.3	75	120	179
401807	7	.349	8.9	44	92	137	401407	7	.439	11.2	105	155	231
401809	9	.399	10.1	56	115	171	401409	9	.507	12.9	135	194	289
401812	12	.451	11.5	75	143	213	401412	12	.567	14.4	179	237	353
401818	18	.519	13.2	113	203	302	401418	18	.659	16.1	269	356	530
401825	25	.607	15.4	156	265	394	401425	25	.754	19.2	374	473	704
401834	34	.679	17.2	213	365	543							
401841	41	.743	18.9	256	419	624							
401850	50	.791	20.1	313	488	726							
401861	61	.859	21.8	381	600	893							

OLFLEX® 490 CP: Shielded Flexible Control Cable with Polyurethane Jacket

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
20 AWG (10/30) 0.50 mm ²							16 AWG (26/30) 1.50 mm ²						
402002CP	2	.270	6.9	23	46	68	401602CP	2	.320	8.1	36	72	107
402003CP	3	.281	7.1	27	56	83	401603CP	3	.335	8.5	48	82	122
402004CP	4	.299	7.6	32	65	97	401604CP	4	.358	9.1	61	96	143
402005CP	5	.318	8.1	38	73	109	401605CP	5	.385	9.8	70	112	167
402007CP	7	.338	8.6	48	85	126	401607CP	7	.413	10.5	91	137	204
402009CP	9	.380	9.7	62	103	153	401609CP	9	.477	12.9	117	169	251
402012CP	12	.426	10.8	71	116	173	401612CP	12	.527	13.4	156	216	321
402018CP	18	.490	12.4	101	164	244	401618CP	18	.605	15.4	219	294	438
402025CP	25	.565	14.4	137	214	318	401625CP	25	.685	17.4	292	383	570
18 AWG (19/30) 1.00 mm ²							14 AWG (41/30) 2.50 mm ²						
401802CP	2	.294	7.5	26	61	91	401641CP	41	.885	22.5	452	643	957
401803CP	3	.306	7.8	34	71	106	401650CP	50	.941	23.9	554	750	1116
401804CP	4	.328	8.3	46	82	122	401661CP	61	.997	25.3	673	888	1321
401805CP	5	.350	8.9	54	94	140	14 AWG (41/30) 2.50 mm ²						
401807CP	7	.374	9.5	68	116	173	401402CP	2	.354	9.0	52	84	125
401809CP	9	.424	10.8	92	140	208	401403CP	3	.372	9.4	69	102	152
401812CP	12	.473	12.0	107	177	263	401404CP	4	.399	10.1	86	124	185
401818CP	18	.540	13.7	162	240	357	401405CP	5	.431	10.9	106	145	216
401825CP	25	.609	15.5	213	311	463	401407CP	7	.470	11.9	136	182	271
401834CP	34	.710	18.0	273	427	635	401409CP	9	.538	13.7	171	226	336
401841CP	41	.774	19.7	326	501	746	401412CP	12	.598	15.2	226	287	427
401850CP	50	.842	21.4	393	600	893	401418CP	18	.690	17.5	334	391	582
401861CP	61	.890	22.6	471	699	1040	401425CP	25	.785	19.9	474	557	829

OLFLEX® 590 P/ 590 CP

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



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

Recommended Applications:

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

Application Advantage:

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

OLFLEX® 590 P Construction:

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



OLFLEX® 590 CP Construction:

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



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

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

OLFLEX® 590 P/ 590 CP

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



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

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

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

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

OLFLEX® PUR S



Flexible Cold-Resistant Polyurethane Control Cable with Superfine Conductor Stranding

OLFLEX® PUR S is a highly flexible PUR insulated and PUR jacketed control cable. It has excellent oil and abrasion resistance and cold temperature performance.

Recommended Applications:

Forestry equipment, Farming equipment, Utility trucks and other cold temperature applications where abrasion and flexibility are required.

Application Advantage:

- Very good cold temperature performance
- Excellent oil and abrasion resistance
- Halogen-Free
- Cold Climate/ Rigid Applications

OLFLEX® PUR S Construction:

Extra fine stranded plain copper conductors; polyurethane insulation; and black PUR outer jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-05		Flame Resistance: FR-01
	Motion Type: FL-01		Mechanical Properties: MP-05

Availability:

Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		SKINTOP® MS: Page 486

Technical Data:

	Minimum Bending Radius for flexible use:	15 x cable diameter		Conductor Stranding:	Fine Wire per VDE 0295, Class 6
	Temperature Range: for flexible use:	-30°C to +80°C		Color Code: - PUR S 17: - PUR S 27:	Chart 9, Page 674 Numbered Conductors
	Nominal Voltage:	300/500V		Approvals:	For machinery in accordance with SS EN 60204-1: 1992 "Electrical Equipment On Industrial Machines"
	Test Voltage:	3000V			

OLFLEX® PUR S 17: Colored Conductors

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
20 AWG							38000987	12	.421	10.7	75	65	96
38000969	2	.209	5.3	7	6	10	38000988	15	.476	12.1	94	73	108
38000975	12	.374	9.5	40	39	58	38000989	18	.508	12.9	113	87	130
18 AWG							38000991	25	.606	15.4	156	121	180
38000980	2	.228	5.8	13	11	16	16 AWG						
38000981	3	.240	6.1	19	16	24	38001005	2	.276	7.0	18	20	30
38000982	4	.264	6.7	25	22	32	38001006	3	.291	7.4	27	30	45
38000983	5	.287	7.3	31	26	38	38001013	12	.535	13.6	109	116	173
38000984	7	.339	8.6	44	34	50							

OLFLEX® PUR S 27: Numbered Conductors

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
20 AWG							38002948	12	.421	10.7	75	65	96
38002560	3	.220	5.6	10	10	15	38002949	18	.500	12.9	113	87	130
38002561	4	.240	6.1	13	13	20	38000332	25	.606	15.4	156	121	180
18 AWG							17 AWG						
38002567	3	.240	6.1	13	16	24	38000424	25	.642	16.3	156	161	240
38002569	4	.264	6.7	25	22	32	16 AWG						
38002571	5	.287	7.3	31	26	38	38002574	3	.291	7.4	27	30	45
38002947	7	.339	8.6	44	34	50	38003270	4	.327	8.3	36	40	60

OLFLEX® CONTROL M

Flexible & Oil Resistant MTW Cable according to NFPA 79



OLFLEX® CONTROL M is a elastomeric polymer jacketed, multi-conductor cable designed for use on machine tool equipment and other industrial machinery conforming to NFPA 79 2007 wiring norms. OLFLEX® CONTROL M is cut and abrasion resistant.

Recommended Applications:

Machine tool machinery, Food & beverage, Processing equipment, Automotive and machine wiring for conformance to NFPA 79 2007

Application Advantage:

- Industrial grade polymer jacket
- Conforms to NFPA 79 2007 standards for wiring machinery
- UL TC-ER, MTW & CSA CIC/TC approved, UV Resistant
- Extremely oil and chemical resistant (Oil Res I/ II)
- Colored cores for AC, DC and control circuits

OLFLEX® CONTROL M Construction:

Finely stranded bare copper conductors; specially blended PVC/ nylon insulation; formulated oil and elastomeric polymer gray jacket.



Cable Attributes, See Page 653

Oil Resistance: OR-03

Flame Resistance: FR-03

Motion Type: FL-02

Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

SKINTOP® Strain Relief: Page 486

EPIC® Connectors: Page 251

OLFLEX® Tubing: Page 546

SKINTOP® MS-SC: Page 486

Technical Data:

- ☑ Minimum Bending Radius for installation: 5 x cable diameter
- ☑ Color Code: Black, Red, Blue, Orange or Yellow conductors with printed numbers plus green/yellow ground. Other colors available upon request.
- ☒ Temperature Range:
 - flexible: -10°C to +90°C
 - stationary: -40°C to +105°C
- ☑ Approvals:
 - UL: - Type MTW 90°C Oil Res. I/II or AWM 105°C
 - NFPA 79 2007 compliant
 - Wet Approval 75°C
 - Type TC-ER
 - CSA: - c(UL) CIC/TC FT4
 - AWM I/II A/B
- ⚡ Nominal Voltage: 600V - TC; 1000V- TC Wind Turbine WTTCC
- 🌀 Conductor Stranding: Fine wire, Class K and Class 5

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km					
18 AWG (19/30) 1.00 mm ²							431407*						7	.463	11.8	105	169	252
431803*	3	.297	7.6	19	57	85	431409*	9	.571	14.5	135	225	335					
431804*	4	.320	8.1	25	66	98	431412*	12	.636	16.2	179	308	459					
431805*	5	.346	8.8	31	77	115	431418*	18	.737	18.7	269	439	654					
431807*	7	.373	9.5	44	100	149	431425*	25	.886	22.5	374	587	874					
431812*	12	.477	12.1	75	112	255	12 AWG (56/.0117) 4 mm ²											
431818*	18	.587	14.9	113	245	365	431204*	4	.460	11.7	100	152	226					
431825*	25	.664	16.9	156	322	479	431205*	5	.503	12.8	125	187	279					
16 AWG (28/30) 1.5 mm ²							431207*	7	.581	14.8	176	258	384					
431603*	3	.325	8.3	27	69	103	10 AWG (82/.0117) 6 mm ²											
431604*	4	.351	8.9	36	83	124	431004*	4	.578	14.7	147	265	394					
431605*	5	.381	9.7	45	98	146	431005*	5	.631	16.0	184	317	472					
431607*	7	.412	10.5	64	127	189	431007*	7	.686	17.4	257	443	661					
431609*	9	.476	12.1	82	171	255	8 AWG (74/.0159) 10 mm ²											
431612*	12	.565	14.4	109	220	328	430804*	4	.703	17.9	245	412	615					
431618*	18	.652	16.6	163	289	431	6 AWG (119/.0159) 16 mm ²											
431619*	19	.652	16.6	172	289	431	430604*	4	.899	22.8	393	580	864					
431625*	25	.741	18.8	227	397	592	430605*	5	.982	24.9	491	725	1080					
431633*	33	.827	21.0	299	471	702	4 AWG (413/30) 25 mm ²											
14 AWG (46/30) 2.5 mm ²							430404*	4	1.094	27.8	541	952	1418					
431403*	3	.362	8.8	45	87	130	2 AWG (665/30) 35 mm ²											
431404*	4	.392	10.0	60	107	159	430204*	4	1.272	32.3	853	1394	2077					
431405*	5	.427	10.8	75	128	191												

Standard Conductors are Black. Replace * with B for (Blue), R for (Red), Y for (Yellow), or O for (Orange). Ex. 431803B has blue conductors.

OLFLEX® POWER MULTI

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



OLFLEX® POWER MULTI is a multi-purpose power cable with cordage, tray and Class 1 Div 1 (flexible use) approvals. The chemical resistant elastomeric jacket has superior performance vs. PVC making it ideal for hazardous industrial applications

Recommended Applications:

Power cord for equipment, Paint booths, Appliances, Factory installations and any power hook-up in the plant

Application Advantage:

- UL & CSA STOOW cordage approval
- UL TC-ER & CSA TC approved
- Meets Class 1 Div 1 approval for flexible use
- One cable does the job of three
- Durable jacket for long performance life

OLFLEX® POWER MULTI Construction:

Finely stranded bare copper conductors; specially blended PVC/ nylon insulation; specially formulated oil and chemical resistant black elastomeric alloy jacket.



Cable Attributes, See Page 653

	Oil Resistance: OR-03		Flame Resistance: FR-03
	Motion Type: FL-01		Mechanical Properties: MP-03

Availability:

Standard put-ups are 100ft, 250ft, 500ft, and 1,000ft. Bulk reels can be cut to length.

Complete the installation with:

	SKINTOP® Strain Relief: Page 486		EPIC® Connectors: Page 251
	OLFLEX® Tubing: Page 546		EPIC® Pin & Sleeve: Page 462

Foil shield with drain wire available upon request. Minimum may apply

Technical Data:

- | | | | | | |
|--|--|--|--|-------------|---|
| | Minimum Bending Radius for installation: | 5 x cable diameter | | Color Code: | 3/c: Black, White, Green/Yellow
4/c: Black, White, Red, Green/ Yellow
5/c: Black, White, Red, Brown, Green/Yellow (3c, 4c, & 5c: Color & Number Coded)
7/c and higher: Black with white numbers plus green/yellow ground |
| | Temperature Range: | -40°C to +90°C | | Approvals: | UL: - Type TC-ER, Oil Res I, II
- Class 1 Div. 1 per NEC 501.10 (A)(2) & 501.140 (B) "Flexible Use"
- Type STOOW
CSA: - c(UL) Type TC and CIC FT4
- AWM I/II A/B FT4
- Type STOOW |
| | Nominal Voltage: | 600V- TC, STOOW
1000V- Wind Turbine
WTTC | | | |
| | Conductor Stranding: | Fine wire | | | |

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							14 AWG (46/30) 2.50 mm ²						
611803	3	.371	9.4	19	62	92	611403	3	.541	13.7	45	92	137
611804	4	.399	10.1	25	71	106	611404	4	.584	14.8	60	112	167
611805	5	.471	12.0	31	82	122	611405	5	.663	16.9	75	133	198
611807	7	.505	12.8	44	105	156	12 AWG (56/.0117) 4 mm ²						
611812	12	.635	16.1	75	176	262	611203	3	.631	16.0	75	126	188
611818	18	.759	19.3	113	250	372	611204	4	.681	17.3	100	157	234
611825	25	.855	21.7	156	327	487	611205	5	.739	18.8	125	192	286
16 AWG (28/30) 1.50 mm ²							10 AWG (82/.0117) 6 mm ²						
611603	3	.399	10.1	27	74	110	611003	3	.676	17.2	110	230	342
611604	4	.430	10.9	36	88	131	611004	4	.732	18.6	147	270	402
611605	5	.507	12.9	45	103	153	611005	5	.796	20.2	184	322	479
611607	7	.544	13.8	64	132	196	8 AWG (74/.0159) 10 mm ²						
611612	12	.719	18.3	109	225	335	610803	3	.840	21.3	184	377	561
611618	18	.824	20.9	163	294	438	610804	4	.943	24.0	245	417	621
611625	25	.966	24.5	227	402	598							

DON'T GAMBLE WITH YOUR TIME & MONEY!

**THE NFPA 79 ELECTRICAL
CODE HAS CHANGED.**



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