

ÖLFLEX® 190 / 190 CY

Extremely Oil Resistant Flexible Control Cable

UL MTW to Comply with NFPA 79 2012



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

Recommended Applications:

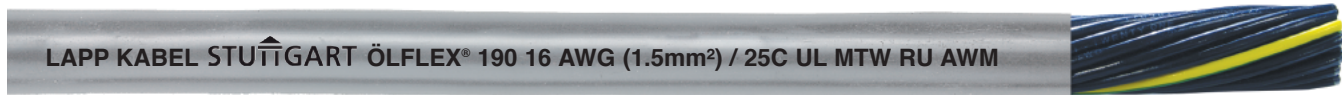
CNC machining centers; grinding machines; bottling equipment; conveyors; processing equipment; assembly lines; control panels

Application Advantages:

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

ÖLFLEX® 190 Construction:

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



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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.



Cable Attributes, See Page 653

	Oil Resistance: OR-04		Flame Resistance: FR-02
	Motion Type: FL-02		Mechanical Properties: MP-02

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
	ÖLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

Minimum Bend Radius:
- for installation: 4 x cable diameter

Temperature Range:
- for flexible use: -5°C to +90°C
- for stationary use: -40°C to +90°C

Nominal Voltage: 600V (UL MTW / CSA AWM)
1000V (UL AWM)

Test Voltage: 2000V

Conductor Stranding: Class 5 Fine Wire
Class K Fine Wire
(4 AWG & larger, MTW)

Color Code: Black with white numbers, plus green/yellow ground (2c cable does not include ground)

Approvals: UL: - MTW per UL 1063 (P/N's with *are not MTW)
- AWM 2587 & 21098 (Oil)
Attributes: - UL Oil Res I/II
- NFPA 79
CSA: - CSA AWM I/II A/B FT 1
- CSA C22.2 210.2 Sec. 7.6.12.1, 8.8.8
Additional: - Passes Impact and Crush tests to UL 1277, excluding 20 AWG designs
- CE & RoHS

ÖLFLEX® 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 (0.50 mm ²)							602018	18	.487	12.4	60	198	295
602002	2	.253	6.4	7	39	58	602025	25	.586	14.9	83	243	361
602003	3	.265	6.7	10	41	61	18 AWG (1.00 mm ²)						
602004	4	.285	7.2	13	51	76	601802	2	.277	7.0	13	42	63
602005	5	.308	7.8	17	60	89	601803	3	.291	7.4	19	44	66
602007	7	.331	8.4	23	81	120	601803NG	3	No Ground				
602009	9	.409	10.4	30	100	149	601804	4	.314	8.0	25	54	81
602012	12	.421	10.7	40	168	250	601805	5	.340	8.6	31	64	95

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18 AWG (1.00 mm²)							12 AWG (4 mm²)						
601807	7	.367	9.3	44	84	125	601404	4	.386	9.8	60	122	182
601809	9	.454	11.5	56	140	208	601405	5	.421	10.7	75	145	216
601812	12	.471	12.0	75	142	211	601407	7	.457	11.6	105	192	286
601818	18	.579	14.7	113	207	309	601409	9	.609	15.5	135	271	403
601825	25	.656	16.4	156	277	413	601412	12	.628	16.0	179	402	598
601834	34	.953	24.2	213	494	735	601418	18	.729	18.5	269	575	855
621834*	34	.783	19.9	233	475	707	601425	25	.872	22.2	374	860	1280
601841	41	1.043	26.5	256	558	830	10 AWG (6 mm²)						
621841*	41	.846	21.5	271	554	825	601203	3	.417	10.6	75	156	232
601850	50	1.110	28.2	313	697	1038	601204	4	.454	11.5	100	198	295
621850*	50	.961	24.4	336	697	1037	601205	5	.497	12.6	125	238	354
16 AWG (1.50 mm²)							601207	7	.573	14.6	176	363	540
601602	2	.303	7.7	18	57	85	601211	11	.745	18.9	276	398	592
601603	3	.319	8.1	27	61	91	8 AWG (10 mm²)						
601604	4	.345	8.8	36	75	112	600804	4	.695	17.7	245	435	648
601605	5	.375	9.5	45	91	136	600805	5	.764	19.4	306	525	782
601607	7	.406	10.3	64	120	179	6 AWG (16 mm²)						
601609	9	.509	12.9	82	180	268	600604	4	.870	22.1	393	698	1040
601612	12	.557	14.2	109	210	313	600605	5	.955	24.3	491	842	1254
601618	18	.644	16.4	163	298	444	4 AWG (25 mm²)						
601625	25	.733	18.6	227	416	620	600404	4	1.184	30.1	541	1007	1501
601634	34	1.044	26.5	309	946	1408	620404*	4	.976	24.8	645	906	1348
621634*	34	.925	23.5	339	652	970	600405	5	1.306	33.2	676	1244	1853
601641	41	1.144	29.1	372	1230	1830	620405*	5	1.094	27.8	806	1124	1673
621641*	41	.988	25.1	407	768	1143	2 AWG (35 mm²)						
601650	50	1.219	30.1	454	1500	2232	600204	4	1.316	33.4	853	1422	2119
621650*	50	1.079	27.4	504	911	1356	620204*	4	1.091	27.7	903	1174	1747
601661	61	1.294	32.9	554	1800	2679	600205	5	1.454	36.9	1066	1749	2606
621661*	61	1.142	29.0	591	1036	1541	14 AWG (2.50 mm²)						
14 AWG (2.50 mm²)							14 AWG (2.50 mm²)						
601402	2	.337	8.6	30	87	130	601403	3	.356	9.0	45	93	138
601403	3	.356	9.0	45	93	138							

2 conductor cable does not include ground wire.

* Not UL MTW rated

ÖLFLEX® 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 (0.50 mm²)							12 AWG (4 mm²)						
602002CY	2	.329	8.4	23	65	97	601404CY	4	.462	11.7	86	181	269
602003CY	3	.341	8.7	27	82	122	601405CY	5	.497	12.6	106	218	325
602007CY	7	.407	10.3	48	112	167	601407CY	7	.572	14.5	136	283	421
602012CY	12	.497	12.6	71	180	268	601412CY	12	.736	18.7	226	516	769
602025CY	25	.678	17.2	137	296	441	601418CY	18	.905	23.0	334	740	1102
18 AWG (1.00 mm²)							10 AWG (6 mm²)						
601802CY	2	.353	9.0	26	75	112	601203CY	3	.500	12.7	115	226	337
601803CY	3	.367	9.3	34	82	122	601204CY	4	.585	14.9	146	310	462
601804CY	4	.390	9.9	46	105	157	601205CY	5	.628	15.9	172	359	535
601805CY	5	.416	10.6	54	123	183	601207CY	7	.672	17.1	225	493	735
601807CY	7	.443	11.3	68	139	207	8 AWG (10 mm²)						
601812CY	12	.554	14.1	107	230	342	600804CY	4	.803	20.4	305	569	848
601818CY	18	.678	17.2	162	317	472	6 AWG (16 mm²)						
601825CY	25	.764	19.4	213	435	648	600604CY	4	.994	25.2	467	1114	1660
16 AWG (1.50 mm²)							4 AWG (25 mm²)						
601603CY	3	.395	10.0	48	111	166	600404CY	4	1.324	33.6	637	1266	1886
601604CY	4	.421	10.7	61	128	191	620404CY*	4	1.133	31.7	777	1153	1716
601605CY	5	.451	11.5	70	149	222	2 AWG (35 mm²)						
601607CY	7	.482	12.2	91	181	270	600204CY	4	1.468	37.3	969	2189	3261
601612CY	12	.656	16.7	156	311	464	620204CY*	4	1.247	28.8	1050	1487	2213
601618CY	18	.743	18.9	219	456	679							
601625CY	25	.897	22.8	292	639	952							
14 AWG (2.50 mm²)													
601403CY	3	.432	11.0	69	148	221							

2 conductor cable does not include ground wire.

* Not UL MTW rated