

# OLFLEX® 190/ 190 CY

Extremely Oil Resistant Flexible Control Cable



OLFLEX® 190 is a multi-conductor, 600 volt, 90°C, UL and CSA approved, oil resistant flexible control and power cable. The compact cable design permits easier handling and installation in confined operating areas. Our specially blended PVC jacket passes the stringent requirements of the VDE 0472 Section 803 oil test and now also UL AWM 21098 and oil res I and II, providing optimum resistance to mineral oils, synthetic oils and water based coolants. OLFLEX® 190 control cables are designed for use in all

electrical equipment in dry, damp, and wet conditions. Recommended applications are machine tools, assembly lines, control systems, data processing equipment, connections between control panels and machines, CNC machining centers, grinding machines, and bottling equipment. OLFLEX® 190 CY has an overall tinned copper braid that is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

## OLFLEX® 190 Construction:

Finely stranded bare copper conductors; specially blended PVC 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 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							
	OR-04		FR-02		FL-02		MP-02

## Technical Data:

	Minimum Bending Radius for installation:	4 x cable diameter		Color Code:	Black with white numbers, plus green/yellow ground
	with shield:	6 x cable diameter			2 conductor does not include ground
	Temperature Range:			Approvals:	UL-AWM 2587 + 21098
	for flexible use:	-5°C to +90°C			CSA-AWM I/II A/B FT 1, NOM
	for stationary use:	-40°C to +90°C			Passes Oil Res I, II + UL 758 80°C tests
	Nominal Voltage:	600V			Passes CSA C22.2 210.2
	Test Voltage:	3000V			Sec. 7.6.12.1, 8.8.8- Oil Resistance Tests
	Conductor Stranding:	Fine wire per VDE 0295, Class 5			NOM - Norma Oficial Mexicana
					* Passes Impact and Crush tests to UL 1277
					Same requirement for Exposed Run
					Conforms to CE Low Voltage Directive

## OLFLEX® 190: Oil Resistant Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Approx. Weight lbs/mft	Approx. Weight kg/km
20 AWG (12/30) 0.50 mm <sup>2</sup>						601803	3	.263	6.7	44	66
602002	2	.228	5.8	39	58	601803NG	3		No Ground		
602003	3	.241	6.1	41	61	601804	4	.287	7.7	54	81
602004	4	.262	6.7	51	76	601805	5	.312	7.9	64	95
602005	5	.285	7.2	60	89	601807	7	.340	8.6	84	125
602007	7	.310	7.9	81	120	601809	9	.441	11.2	118	176
602009	9	.401	10.2	135	201	601812	12	.462	11.7	142	211
602012	12	.420	10.7	168	250	601818	18	.535	13.6	207	309
602018	18	.503	12.8	198	295	601825	25	.647	16.4	277	413
602025	25	.588	14.9	243	361	601834	34	.751	19.1	494	735
18 AWG (19/30) 1.00 mm <sup>2</sup>						601841	41	.815	20.7	558	830
601802	2	.248	6.3	42	63	601850	50	.920	23.4	697	1038

\*2 conductor does not include ground wire.

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Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>						<b>12 AWG (56/25) 4 mm<sup>2</sup></b>					
601602	2	.274	7.0	57	85	601203	3	.432	11.0	156	232
601603	3	.291	7.4	61	91	601204	4	.479	12.2	198	295
601604	4	.318	8.1	75	112	601205	5	.520	13.2	238	354
601605	5	.348	8.8	91	136	601207	7	.565	14.4	363	540
601607	7	.379	9.6	120	179	601211	11	.716	18.2	398	592
601609	9	.500	12.7	174	260	<b>10 AWG (84/28) 6 mm<sup>2</sup></b>					
601612	12	.524	13.3	210	313	601003	3	.496	12.6	222	330
601618	18	.614	15.6	298	444	601004	4	.542	13.8	267	398
601625	25	.740	18.8	416	620	601005	5	.607	15.4	321	479
601634	34	.898	23.0	588	946	<b>8 AWG (72/26) 10 mm<sup>2</sup></b>					
601641	41	.958	24.3	827	1230	600804	4	.697	17.7	435	648
601650	50	1.027	26.1	1008	1500	600805	5	.782	19.9	525	782
601661	61	1.111	28.2	1208	1800	<b>6 AWG (115/26) 16 mm<sup>2</sup></b>					
<b>14 AWG (50/30) 2.50 mm<sup>2</sup></b>						600604	4	.945	24.0	698	1040
601402	2	.320	8.1	87	130	600605	5	1.035	26.3	842	1254
601403	3	.340	8.6	93	138	<b>4 AWG (180/26) 25 mm<sup>2</sup></b>					
601404	4	.398	10.1	122	182	600404	4	1.098	27.9	1007	1501
601405	5	.432	11.0	145	216	600405	5	1.200	30.5	1244	1853
601407	7	.469	11.9	192	286	<b>2 AWG (270/26) 35 mm<sup>2</sup></b>					
601409	9	.607	15.4	318	473	600204	4	1.279	32.5	1422	2119
601412	12	.638	16.2	402	598	600205	5	1.432	36.4	1749	2606
601418	18	.747	19.0	575	855						
601425	25	.928	23.6	860	1280						

\*2 conductor does not include ground wire.

## OLFLEX® 190 CY: Shielded Oil Resistant Flexible Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight		Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km			inches	mm	lbs/mft	kg/km
<b>20 AWG (12/30) 0.50 mm<sup>2</sup></b>						<b>14 AWG (50/30) 2.50 mm<sup>2</sup></b>					
602002CY	2	.306	7.8	65	97	601403CY	3	.432	11.0	148	221
602003CY	3	.319	8.1	82	122	601404CY	4	.464	11.8	181	269
602007CY	7	.404	10.3	112	167	601405CY	5	.516	13.1	218	325
602012CY	12	.506	12.9	180	268	601407CY	7	.560	14.2	283	421
602025CY	25	.687	17.4	296	441	601412CY	12	.758	19.3	516	769
<b>18 AWG (19/30) 1.00 mm<sup>2</sup></b>						601418CY	18	.925	23.5	740	1102
601802CY	2	.326	8.3	75	112	<b>12 AWG (56/28) 4 mm<sup>2</sup></b>					
601803CY	3	.341	8.7	82	122	601203CY	3	.523	13.3	226	337
601804CY	4	.365	9.3	105	157	601204CY	4	.594	15.1	310	462
601805CY	5	.406	10.3	123	183	601205CY	5	.635	16.1	359	535
601807CY	7	.436	11.1	139	207	601207CY	7	.696	17.7	493	735
601812CY	12	.555	14.1	230	342	<b>10 AWG (84/28) 6 mm<sup>2</sup></b>					
601818CY	18	.650	16.5	317	472	601003CY	3	.611	15.5	311	463
601825CY	25	.771	19.6	435	648	601004CY	4	.657	16.7	385	574
<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>						601005CY	5	.731	18.6	474	706
601603CY	3	.369	9.4	111	166	601007CY	7	.783	19.9	638	950
601604CY	4	.412	10.5	128	191	<b>8 AWG (72/26) 10 mm<sup>2</sup></b>					
601605CY	5	.442	11.2	149	222	600804CY	4	.821	20.9	569	848
601607CY	7	.473	12.0	181	270	<b>6 AWG (115/26) 16 mm<sup>2</sup></b>					
601612CY	12	.639	16.2	311	464	600604CY	4	1.069	27.2	1114	1660
601618CY	18	.729	18.5	456	679	<b>4 AWG (180/26) 25 mm<sup>2</sup></b>					
601625CY	25	.910	23.1	639	952	600404CY	4	1.238	31.4	1266	1886
						<b>2 AWG (270/26) 35 mm<sup>2</sup></b>					
						600204CY	4	1.455	37.0	2189	3261

\*2 conductor does not include ground wire.