

# OLFLEX®-190

## Oil Resistant Flexible Control Cable



OLFLEX®-190 is a multi-conductor, 600 Volt, 90°C UL and CSA approved, oil resistant flexible control 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, 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.

### Construction:

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



Also available with the following options:

- Blue or red insulation
- Black overall jacket

### Technical Data:

Minimum bend radius for installation: 5 x cable diameter

Rated temperature: for flexible use: -5°C to +90°C  
Stationary applications: -40°C to +90°C

Rated voltage: 600 V

Test voltage: 3000 V

Insulation resistance: 20 G x cm

Conductor stranding: Fine wire per VDE 0295

Color code: Black with white numbers, plus green/yellow

Approvals: UL AWM  
CSA AWM II A/B FT1

Conforms to CE Directives

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
20 AWG (12/30) 0.50 mm <sup>2</sup>						601641 41 .941 23.9 827 1230					
602002	2	.228	5.8	39	58	601650	50	1.024	26.0	1008	1500
602003	3	.240	6.1	41	61	601661	61	1.095	27.8	1208	1800
602004	4	.260	6.6	51	76	14 AWG (50/30) 2.50 mm <sup>2</sup>					
602005	5	.287	7.3	60	89	601402	2	.323	8.2	87	130
602007	7	.311	7.9	81	120	601403	3	.343	8.7	93	138
602009	9	.409	10.4	135	201	601404	4	.398	10.1	122	182
602012	12	.421	10.7	168	250	601405	5	.429	10.9	145	216
602018	18	.508	12.9	198	295	601407	7	.469	11.9	192	286
602025	25	.591	15.0	243	361	601409	9	.614	15.6	318	473
18 AWG (19/30) 1.00 mm <sup>2</sup>						601412	12	.661	16.8	402	598
601802	2	.244	6.2	42	63	601418	18	.768	19.5	575	855
601803	3	.260	6.6	44	66	601425	25	.945	24.0	860	1280
601804	4	.283	7.2	54	81	12 AWG (56/28) 4.00 mm <sup>2</sup>					
601805	5	.303	7.7	64	95	601203	3	.441	11.2	156	232
601807	7	.335	8.5	84	125	601204	4	.496	12.6	198	295
601809	9	.441	11.2	118	176	601205	5	.547	13.9	238	354
601812	12	.457	11.6	142	211	10 AWG (84/28) 6.00 mm <sup>2</sup>					
601818	18	.539	13.7	207	309	601003	3	.512	13.0	222	330
601825	25	.638	16.2	277	413	601004	4	.555	14.1	267	398
601834	34	.752	19.1	494	735	601005	5	.626	15.9	321	479
601841	41	.811	20.6	558	830	8 AWG (72/26) 10.00 mm <sup>2</sup>					
601850	50	.906	23.0	697	1038	600804	4	.693	17.6	435	648
16 AWG (30/30) 1.50 mm <sup>2</sup>						600805	5	.780	19.8	525	782
601602	2	.272	6.9	57	85	6 AWG (115/26) 16.00 mm <sup>2</sup>					
601603	3	.287	7.3	61	91	600604	4	.945	24.0	698	1040
601604	4	.311	7.9	75	112	600605	5	1.039	26.4	842	1254
601605	5	.346	8.8	91	136	4 AWG (180/26) 25.00 mm <sup>2</sup>					
601607	7	.378	9.6	120	179	600404	4	1.098	27.9	1007	1501
601609	9	.512	13.0	174	260	600405	5	1.213	30.8	1244	1853
601612	12	.520	13.2	210	313	2 AWG (270/26) 35.00 mm <sup>2</sup>					
601618	18	.622	15.8	298	444	600204	4	1.280	32.5	1422	2119
601625	25	.728	18.5	416	620	600205	5	1.437	36.5	1749	2606

# OLFLEX® -90

## Continuous Flex Oil Resistant Power Supply Cable for Small Bend Radius Applications



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OLFLEX®-90 is an ultra flexible 600 Volts, UL and CSA approved cable designed for power applications. The design incorporates Class K stranding with specially formulated PVC compounds that are resistant to most mineral oils, synthetic oils, and water based coolants. Our specially blended PVC jacket passes the stringent demands of the VDE 0472 section 803 oil test.

Recommended applications for the OLFLEX®-90 are power supply cables for spindle motors, cable handling systems requiring flexible power cable, and interconnect wire from the power supply to the machine. OLFLEX®-90 can be used for internal and external applications without conduit and is excellent for use in cable track.

**Construction:**

Fine stranded bare copper conductors; specially blended black PVC insulation; specially formulated black oil resistant PVC jacket.



Also available with the following options:

- Green/Yellow or Gray Overall Jacket; Minimum order required

**Technical Data:**

Minimum bend radius for continuous flexing:	10 x cable diameter	Test voltage:	3000 V
Temperature range:		Insulation resistance:	20 G x cm
Flexing:	-5°C to +90°C	Conductor stranding:	Class K (30 AWG)
Static:	-40°C to +90°C	Approvals:	UL AWM CSA AWM FT1
Rated voltage:	600 V	Conforms to CE Directives	

Part Number	Number of Conductors	Nominal Outer Diameter		lbs/mft	Approx. Weight	
		inches	mm			kg/km
8 AWG (175/30) 600801	1	.366	9.3	111		166
6 AWG (273/30) 600601	1	.390	9.9	139		207
4 AWG (473/30) 600401	1	.472	12.0	217		324
2 AWG (679/30) 600201	1	.626	15.9	334		498
1/0 (1085/30) 6011001	1	.669	17.0	512		763
2/0 (1344/30) 6021001	1	.693	17.6	619		922
3/0 (1680/30) 6031001	1	.787	20.0	768		1144
4/0 (2142/30) 6041001	1	.984	25.0	1023		1524
250 MCM (2541/30) 6025001	1	1.063	27.0	1185		1766
350 MCM (3515/30) 6035001	1	1.146	29.1	1526		2273
500 MCM (5130/30) 6050001	1	1.244	31.6	2136		3182

W I R E S - I N - L I N E C O R D S & A C C E S S O R I E S

# OLFLEX-FD® 890

## Super Flexible Heavy Duty Continuous Flex Control Cable

OLFLEX-FD® 890 is a super flexible, heavy duty, multi-conductor cable designed for continuous flex applications. The specially formulated PVC insulating and jacketing compounds increase flex life and provide optimum resistance to mineral oils, synthetic oils, and water based coolants. Our specially blended PVC jacket passes the stringent demands of the VDE 0472 section 803 oil test.



The OLFLEX-FD® 890 continuous flex cable is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems, and other continuous flexing applications.

### Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap over outer layer; specially formulated oil resistant PVC jacket.



- Also available with blue and black conductors; minimum order required

### Technical Data:

Minimum bend radius for continuous flexing: 8 x cable diameter  
 Temperature range:  
 Flexing: -5°C to +90°C  
 Static: -40°C to +90°C  
 Rated voltage: 600 V  
 Test voltage: 3000 V  
 Insulation resistance: 20 G x cm

Conductor stranding: Super fine wire  
 Color code: Red with black numbers, plus green/yellow  
 Optional: Other color codes available upon request  
 Approvals: UL Style 2587 for PVC jacket (90°C)  
 CSA AWM II A/B FT1  
 Conforms to CE Directives  
 Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	lbs/mft	Approx. Weight kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	lbs/mft	Approx. Weight kg/km
20 AWG (74/38) 0.50 mm <sup>2</sup>						891607	7	.457	11.6	138	205
892003	3	.256	6.5	43	64	891612	12	.567	14.4	227	338
892004	4	.276	7.0	49	73	891618	18	.657	16.7	323	481
892005	5	.303	7.7	54	80	891625	25	.843	21.4	479	713
892007	7	.362	9.2	75	112	891634	34	.921	23.4	622	927
892012	12	.449	11.4	124	185	891650	50	1.075	27.3	879	1309
892018	18	.539	13.7	183	273	891660	60	1.189	30.2	1075	1602
892025	25	.673	17.1	265	395	14 AWG (320/38) 2.50 mm <sup>2</sup>					
892034	34	.732	18.6	338	504	891404	4	.429	10.9	148	220
18 AWG (114/38) 0.75 mm <sup>2</sup>						891407	7	.579	14.7	227	338
891803	3	.272	6.9	46	68	12 AWG (512/38) 4.00 mm <sup>2</sup>					
891804	4	.295	7.5	60	89	891204	4	.528	13.4	208	310
891805	5	.323	8.2	74	110	891207	7	.705	17.9	335	499
891807	7	.413	10.5	102	152	10 AWG (343/34) 6.00 mm <sup>2</sup>					
891812	12	.524	13.3	158	236	891004	4	.587	14.9	275	410
891815	15	.531	13.5	202	301	8 AWG (320/32) 10.00 mm <sup>2</sup>					
891818	18	.587	14.9	234	348	890804	4	.827	21.0	481	716
891825	25	.720	18.3	336	501	6 AWG (512/32) 16.00 mm <sup>2</sup>					
891834	34	.799	20.3	434	646	890604	4	.996	25.3	708	1055
16 AWG (190/38) 1.50 mm <sup>2</sup>						4 AWG (800/32) 25.00 mm <sup>2</sup>					
891603	3	.311	7.9	79	118	890404	4	1.138	28.9	1004	1496
891604	4	.346	8.8	99	148	2 AWG (1120/52) 35.00 mm <sup>2</sup>					
891605	5	.374	9.5	124	185	890204	4	1.319	33.5	1239	1846

# UNITRONIC-FD®

## Very Flexible, Continuous Flex Data Transmission Cable

UNITRONIC-FD® is a very flexible, multi-conductor, data transmission cable designed for automated production processes requiring increased flex life characteristics and durability. The small cable diameters allow installation in confined operating areas.

The specially blended PVC jacket is resistant to mineral oils, synthetic oils and water based coolants and prevents the cable from adhering to adjacent cables and cable track.

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### Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; non-wicking textile wrap; specially formulated gray PVC jacket.



### Technical Data:

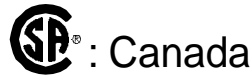
Minimum bend radius for continuous flexing: 10 x cable diameter  
 Temperature range: -5°C to +70°C  
 Rated voltage: 300 V  
 Test voltage: 1500 V

Insulation resistance: 10 G x cm  
 Conductor stranding: Super fine wire, diameter 0.10 mm  
 Color code: Chart 8, DIN 47100, page 225  
 Based on VDE specifications

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
26 AWG (18/38) 0.14 mm <sup>2</sup>						22 AWG (42/38) 0.34 mm <sup>2</sup>					
27840	2	.169	4.3	15	23	27861	14	.335	8.5	72	108
27841	3	.173	4.4	17	26	27863	18	.362	9.2	87	130
27842	4	.185	4.7	21	31	27865	25	.441	11.2	119	178
27843	5	.197	5.0	23	35	27870	2	.201	5.1	26	38
27844	7	.244	6.2	34	50	27871	3	.205	5.2	29	43
27845	10	.283	7.2	42	63	27872	4	.236	6.0	38	57
27846	14	.291	7.4	52	77	27873	5	.256	6.5	44	65
27847	18	.315	8.0	61	91	27874	7	.295	7.5	57	85
27848	25	.378	9.6	84	125	27875	10	.362	9.2	79	117
24 AWG (32/38) 0.25 mm <sup>2</sup>						27876	14	.366	9.3	101	151
27855	2	.181	4.6	20	30	27877	18	.409	10.4	122	182
27856	3	.189	4.8	22	33	27878	25	.500	12.7	168	250
27857	4	.205	5.2	27	40						
27858	5	.240	6.1	34	51						
27859	7	.272	6.9	43	64						
27860	10	.327	8.3	56	84						

# OLFLEX®-150 (Quattro Approval)

Oil Resistant Flexible Control Cable with International Approvals



Olflex®-150 is a multi-conductor, 600 volt, 90°C extremely oil resistant control cable with international approvals to be used on machinery and equipment

designed for use in the U.S. and for worldwide export. Excellent for industrial applications, electronics, communications, process control and instrumentation.

**Construction:**

Finely stranded bare copper conductors; PVC insulation; dry lubricant; conductors cabled with non-wicking fillers; gray PVC jacket (RAL 7001).



**Technical Data:**

Minimum bend radius for installation: 5 x cable diameter

Temperature range:  
to VDE+SEV: -5°C to +70°C  
to UL+CSA: -5°C to +90°C

Rated voltage:  
to VDE+SEV: 300/500 V  
to CE+HAR: 600 V

Test voltage: 3000 V

Insulation resistance: 20 G x cm

Conductor stranding: Fine wire per VDE 0295, Class 5

Color code: Black with white numbers, plus Green/Yellow (VDE 0293)

Approvals: UL—AWM  
CSA—AWM II A/B FT1  
HAR—HO5VV5-F

Conforms to CE Directives

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Approx. Weight lbs/mft	kg/km
<b>20 AWG (16/32) 0.50 mm<sup>2</sup></b>						<b>16 AWG (30/30) 1.50 mm<sup>2</sup></b>					
15003	3	.244	6.2	42	62	15303	3	.311	7.9	74	110
15004	4	.272	6.9	46	68	15304	4	.354	9.0	95	141
15005	5	.291	7.4	58	87	15305	5	.386	9.8	113	168
15007	7	.358	9.1	80	119	15307	7	.480	12.2	151	224
15012	12	.445	11.3	133	198	15312	12	.571	14.5	243	362
15018	18	.520	13.2	180	267	15318	18	.693	17.6	348	518
15025	25	.614	15.6	256	380	15325	25	.815	20.7	491	730
15034	34	.736	18.7	342	509	15334	34	.969	24.6	637	947
15041	41	.787	20.0	400	595	15341	41	1.035	26.3	764	1136
<b>18 AWG (32/32) 1.00 mm<sup>2</sup></b>						<b>14 AWG (50/30) 2.50 mm<sup>2</sup></b>					
15203	3	.283	7.2	60	89	15350	50	1.126	28.6	929	1382
15204	4	.307	7.8	67	99	15361	61	1.236	31.4	1102	1639
15205	5	.354	9.0	89	132						
15207	7	.437	11.1	114	169						
15212	12	.519	13.2	192	286						
15218	18	.630	16.0	272	405						
15225	25	.748	19.0	383	570						
15234	34	.882	22.4	499	742						
15241	41	.945	24.0	596	886						
15250	50	1.024	26.0	721	1072						
15261	61	1.122	28.5	851	1266						
15262	65	1.201	30.5	948	1410						

# OLFLEX® - VFD

Oil Resistant Flexible Motor Supply Cable  
For Variable Frequency Drives  
1000 Volts/3000 Volts Peak

(UL)

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Olflex® - VFD is a shielded, flexible motor supply cable for variable speed drives subject to non-linear power distortions. This cable is used to interconnect an AC variable frequency drive or control system, to an AC variable frequency motor. The VFD cable is different from other motor supply cables because it can disperse the voltage spikes, harmonics, and power distortions associated with

variable frequency drives. Specially formulated composite insulation disperses voltage spikes preventing cable damage. An inner jacket is used to protect the insulation from the braid shield and to lower the capacitive interaction between the shield and power conductors. The outer orange jacket is extremely oil resistant and UV resistant.

**Construction:**

Tinned copper conductors; specially blended composite insulation; an inner PVC jacket; 100% shielding with foil tape and tinned copper braid; specially formulated orange PVC jacket.



**Technical Data:**

Minimum bend radius for flexible use:	12 x cable diameter	Conductor Stranding:	Fine Wire
Temperature range:	-25°C to +90°C	Color code:	Three Black Conductors with White Numbers and One Green/Yellow Ground
Rated voltage:	1000 VAC/3000 VAC Peak	Conductor	
Test voltage:	7500 V	Approvals:	(UL) Flexible Motor Supply Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter		Approx. Weight	
		inches	mm	lbs/mft	kg/km
14 AWG (41/30) 1404 VFD	4	.560	14.2	224	333
12 AWG (65/30) 1204 VFD	4	.604	15.3	268	399
10 AWG (105/30) 1004 VFD	4	.732	18.6	428	637
8 AWG (133/29) 0804 VFD	4	.869	22.1	561	835
6 AWG (133/27) 0604 VFD	4	1.011	25.7	802	1193
4 AWG (133/25) 0404 VFD	4	1.185	30.1	1205	1793
3 AWG (133/24) 0304 VFD	4	1.394	35.5	1460	2172
2 AWG (133/0.223) 0204 VFD	4	1.404	35.7	1703	2534

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# OLFLEX-SERVO-FD® 755 P (Gray)

Halogen Free Continuous Flex Composite Power Supply and Feedback Cable for Small Bend Radius Applications

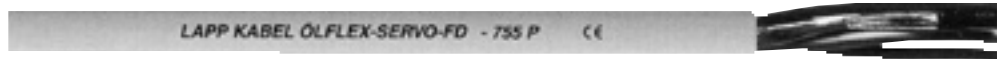


OLFLEX-SERVO-FD® 755 P is an ultra flexible, halogen free, continuous flex power supply and feedback cable which has been designed for automated servo systems. This composite cable offers a unique combination of signal and power conductors, under one jacket, while reducing weight and saving space.

The special design makes OLFLEX-SERVO-FD® 755 P ideally suited for small bend radius applications, such as cable tracks, automated handling equipment, pick-and-place units, gantry robots, machine tools, and other continuous movement applications.

**Construction:**

Finely stranded bare copper conductors; pairs and power conductors are insulated with special elastomeric compounds; pairs shielded with aluminum foil and tinned copper drain wire plus tinned copper braid; non-woven material wrapping; specially formulated gray polyurethane outer jacket.



**Technical Data:**

Minimum bend radius for continuous flexing: 5 x cable diameter

Temperature range: Flexing: -30°C to +80°C

Working voltage: 600/1000 V

Color Code: Black with White Numbers, plus green/yellow

Insulation resistance: 20 T x cm

Conductor stranding: Extra Fine Wire per VDE 0295, Class 6

Test voltage: Cond./cond.: 400 V  
Cond./braid: 1000 V

Conforms to CE Directives

Part Number	Power Conductors	Plus	Signal Pairs, Individually Shielded	Nominal Outer Diameter		Approx. Weight	
				inches	mm	lbs/mft	kg/km
<b>Four Power Conductors and One Signal Pair</b>							
36601	16awg/4c		17awg/1pr	.480	12.2	121	180
36602	14awg/4c		17awg/1pr	.531	13.5	157	234
36603	12awg/4c		17awg/1pr	.594	15.1	215	320
36604	10awg/4c		17awg/1pr	.665	16.9	272	404
36605	8awg/4c		17awg/1pr	.827	21.0	427	635
36606	6awg/4c		16awg/1pr	.906	23.0	634	943
36607	4awg/4c		16awg/1pr	1.110	28.2	960	1429
36608	2awg/4c		16awg/1pr	1.276	32.4	1251	1864
<b>Four Power Conductors and Two Signal Pairs</b>							
36350	16awg/4c		18awg/2pr	.591	15.0	142	211
36351	14awg/4c		18awg/2pr	.610	15.5	174	259
36352	12awg/4c		18awg/1pr & 17awg/1pr	.646	16.4	240	357
36353	10awg/4c		18awg/1pr & 17awg/1pr	.701	17.8	298	444
36354	8awg/4c		18awg/1pr & 17awg/1pr	.839	21.3	448	667
36355	6awg/4c		17awg/2pr	.921	23.4	644	958
36356	4awg/4c		16awg/2pr	1.114	28.3	963	1433

# OLFLEX-SERVO-FD® 785 P (Gray)

Halogen Free Continuous Flex Servo Motor Power Supply Cable for Small Bend Radius Applications



OLFLEX-SERVO-FD® 785 P is a halogen free, ultra flexible, continuous flex motor supply cable which has been designed for automated servo systems.

SERVO-FD® 785 P ideally suited for small bend radius applications, such as cable tracks, automated handling equipment, and other continuous movement applications.

The special ultra flexible design makes OLFLEX-

**Construction:**

Finely stranded bare copper conductors; special elastomeric insulation; tape wrap; specially formulated gray polyurethane outer jacket.



W I R E S L I N E C O R D S & A C C

**Technical Data:**

Minimum bend radius: 5 x cable diameter

Insulation resistance: 20 T x cm

Temperature range:

Flexing: -30°C to +80°C

Conductor stranding: Extra Fine Wire per VDE 0295, Class 6

Working voltage: 600/1000 V

Color code: Black with white numbers, plus green/yellow

Test voltage: 4000 V

Conforms to CE Directives

Part Number	Power Conductors	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
36380	16awg/4c	.413	10.5	87	129	36384	8awg/4c	.740	18.8	393	585
36381	14awg/4c	.465	11.8	126	187	36385	6awg/4c	.847	21.5	580	863
36382	12awg/4c	.551	14.0	184	273	36386	4awg/4c	1.024	26.0	880	1309
36383	10awg/4c	.583	14.8	241	358						





## <HAR>

# European Hook Up Wire



### Harmonized Hook Up Wire Types H05V-K, H07V-K

Harmonized European hook up wire is recommended for use in electronic and electrical equipment designed for export to European countries and for MRO replacement of European made equipment wire.

Standards:  
HD 21.1 S2, HD 21.2, HD 21.3 S2; HD 308, 361, 383, 385, 402, 405.1. VDE 0812 (H05), 028 (H07), 0295 class 5. IEC 227.1, 227.2, 227.5, 228, 304, 332-1, 540. BS 6500. DIN 57281, 57250.

**Construction:**  
Finely stranded bare copper conductors; PVC insulation.



<HAR> Green/Yellow Ground: For every 15 mm of length of insulation, one of the colors (green or yellow) must cover at least 30% and not more than 70% of the insulation surface, the other color covering the remainder.

### Technical Data:

	<b>H05 V-K</b>	<b>H07 V-K</b>	Conductor stranding:	Fine wire per VDE 0295
Temperature range:	-30°C to +70°C		Color code:	See below
Rated voltage:	300/500 V	450/750 V	Approvals:	HAR
Test voltage:	2000 V	2500 V	Conforms to CE Directives	
Insulation resistance:	20 GΩ x cm			

Part Number	Conductor Size	Nominal Outer Diameter		Appx. Wt. Lbs/Mft	Color No.
		inches	mm		
<b>H05V-K PVC</b>					
4510..1	20 AWG (16/32) 0.5 mm <sup>2</sup>	.083	2.1	5.8	00 Green/Yellow
4510..2	18 AWG (24/32) 0.75 mm <sup>2</sup>	.094	2.4	7.5	01 Black
4510..3	17 AWG (32/32) 1 mm <sup>2</sup>	.102	2.6	9.1	02 Blue
<b>H07V-K PVC</b>					
					03 Brown
4520..1	16 AWG (30/30) 1.5 mm <sup>2</sup>	.118	3.0	14.5	04 Red
4520..2	14 AWG (50/30) 2.5 mm <sup>2</sup>	.146	3.7	21	05 White
4520..3	12 AWG (56/28) 4 mm <sup>2</sup>	.169	4.3	31	06 Gray
4520..4	10 AWG (84/28) 6 mm <sup>2</sup>	.193	4.9	45	07 Violet
4520..5	8 AWG (80/26) 10 mm <sup>2</sup>	.256	6.5	77	08 Pink
4520..6	6 AWG (128/26) 16 mm <sup>2</sup>	.315	8.0	117	09 Orange
4521..1	4 AWG (200/26) 25 mm <sup>2</sup>	.386	9.8	199	* 10 Transparent
4521..2	2 AWG (280/26) 35 mm <sup>2</sup>	.433	11.0	265	* 11 Yellow
4521..3	1 AWG (400/26) 50 mm <sup>2</sup>	.512	13.0	346	* 12 Green
4521..4	2/0 AWG (560/26) 70 mm <sup>2</sup>	.610	15.5	466	14 Dark Blue
4521..5	3/0 AWG (485/24) 95 mm <sup>2</sup>	.669	17.0	615	* Not HAR
4521..6	4/0 AWG (514/24) 120 mm <sup>2</sup>	.776	19.7	772	
4521..7	300 MCM AWG (765/24) 150 mm <sup>2</sup>	.839	21.3	975	
4521..8	370 MCM AWG (944/24) 185 mm <sup>2</sup>	.925	23.5	1196	
4521..9	480 MCM AWG (1255/25) 240 mm <sup>2</sup>	1.079	27.4	1575	

**NOTE:** To develop the OLFLEX® Part number - Insert the double digit color code in the above part number. For example 20 AWG H05V-K Green/Yellow: 4510001

# OLFLEX-ROBOT® 900 P



# 22

## Robotic Cable for Continuous Twisting Motion

OLFLEX-ROBOT® 900 P is used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables, and other automated applications requiring twisting movement. The high-quality insulation with its smooth surface

and slide wrappings increases cable life expectancy under extreme twisting and bending stresses. The outer jacket of specially formulated polyurethane is highly resistant to abrasion, oil, notching, microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables.

### Construction:

Finely stranded bare copper conductors; special elastomeric insulation; low friction core wrap; specially formulated black polyurethane jacket with matte finish.



### Technical Data:

Minimum bend radius for continuous flexing: 15 x cable diameter  
 Max. torsion (twist): +/- 360°/Meter  
 Temperature range: Flexing: -30°C to +80°C  
 Rated voltage: 300/500 V  
 Test voltage: 3000 V

Insulation resistance: 20 G x cm  
 Conductor stranding: Flexible fine wire  
 Color code: Black with white numbers, plus green/yellow  
 Nominal capacitance: Cond./cond. approx. 28 pF/Ft  
 Cond./shield approx. 50 pF/Ft

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
20 AWG (16/32) 0.50 mm <sup>2</sup>						16 AWG (30/30) 1.50 mm <sup>2</sup>					
28146	25	.524	13.3	170	254	28198	18	.622	15.8	295	446
18 AWG (24/32) 0.75 mm <sup>2</sup>						28200	25	.776	19.7	428	638
28160	4	.260	6.6	42	63	14 AWG (50/30) 2.50 mm <sup>2</sup>					
28164	14	.449	11.4	134	199	28181	3	.366	9.3	91	136
17 AWG (32/32) 1.00 mm <sup>2</sup>						28182	4	.398	10.1	115	171
28170	2	.244	6.2	32	47	12 AWG (50/28) 4 mm <sup>2</sup>					
28171	3	.256	6.5	41	61	28184	3	.484	12.3	152	226
28172	4	.283	7.2	51	76	8 AWG (80/26) 10 mm <sup>2</sup>					
28174	7	.366	9.3	88	131	28300	3	.720	18.3	347	517
28176	12	.453	11.5	145	216	6 AWG (128/26) 16 mm <sup>2</sup>					
*28185	18 (incl.1 pair)	.650	16.5	252	376	28400	3	.843	21.4	484	721
28178	18	.520	13.2	204	304	4 AWG (200/26) 25 mm <sup>2</sup>					
*28186	25 (incl.1 pair)	.681	17.3	315	470	28187	3	1.031	26.2	791	1178
28180	25	.646	16.4	291	433	2 AWG (280/26) 35 mm <sup>2</sup>					
28190	34	.744	18.9	379	565	28189	3	1.134	28.8	1046	1559
28191	41	.843	21.4	467	696						

\*includes one individually shielded pair

W I R E S L I N E C O R D S & A C C