

OLFLEX® FD 90/ 90 CY

Highly Flexible, Single Conductor Power Supply Cable



OLFLEX® FD 90 is a highly flexible, 600V UL and CSA approved single conductor cable for continuous flex applications. It is designed with extra fine wire stranding and specially formulated PVC compounds that are resistant to most mineral oils, synthetic oils and water based coolants. OLFLEX® FD 90 CY with tinned copper braid shielding is used for applications where EMI emissions need to be suppressed.

Recommended Applications:

For power circuits and applications requiring flexible power cable to interconnect the power supply to the machine.

Application Advantage:

- North American UL/CSA and European market approvals
- Suitable for dry or damp interior use
- Available in larger conductor sizes for more power applications

OLFLEX FD® 90 Construction:

Finely stranded bare copper conductors; specially blended black PVC insulation; specially formulated UV resistant, black oil resistant PVC jacket.



OLFLEX FD® 90 CY Construction:

Finely stranded bare copper conductors; specially blended black PVC insulation, tinned copper braid; specially formulated UV and oil resistant orange PVC jacket.



OLFLEX® FD 90 is also available with the following option:

Green/Yellow conductor insulation with a black jacket. Minimum order may apply. This cable is double insulated.

Cable Attributes, See Page 653			Availability:		Complete the installation with:			
	Oil Resistance: OR-1		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: CF-01		Mechanical Properties: MP-01			OLFLEX® Tubing: Page 546		SKINTOP® MS-SC Page 486

Technical Data:

	Minimum Bending Radius			Test Voltage:	4000V	
	- for continuous flexing:	7.5 x cable diameter			Conductor Stranding:	Extra Fine Wire per VDE 0295, Class 6 IEC 228 Cl.6
	Temperature Range:					Approvals:
	- for flexible use:	-5°C to +90°C				
	- for stationary use:	-40°C to +90°C				
	Nominal Voltage:	UL/CSA: 600V IEC: 600/1000V				

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OLFLEX FD® 90: Highly Flexible Single Conductor Power Supply 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
8 AWG (320/32) 10 mm ²							3/0 AWG (1340/28) 95 mm ²						
0026601	1	.374	9.5	65	118	176	0026620	1	.803	20.4	613	792	1179
6 AWG (512/32) 16 mm ²							4/0 AWG (1690/28) 120 mm ²						
0026604	1	.433	11.0	103	161	240	0026623	1	.953	24.2	774	1022	1521
4 AWG (800/32) 25 mm ²							250 KCMIL (2123/28) 150 mm ²						
0026608	1	.484	12.3	161	243	361	0026626	1	1.020	25.9	901	1168	1739
2 AWG (1120/32) 35 mm ²							350 KCMIL (1470/26) 185 mm ²						
0026611	1	.579	14.7	226	324	482	0026629	1	1.138	28.9	1193	1549	2305
1 AWG (705/28) 50 mm ²							450 KCMIL (1905/26) 240 mm ²						
0026614	1	.661	16.8	323	443	660	0026635	1	1.236	31.4	1548	1978	2944
2/0 AWG (990/28) 70 mm ²							500 KCMIL (2385/26) 300 mm ²						
0026617	1	.744	18.9	421	603	898	0026641	1	1.350	34.3	1795	2382	3545

OLFLEX FD® 90 CY: Shielded Highly Flexible Single Conductor Power Supply 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
8 AWG (320/32) 10 mm ²							3/0 AWG (1340/28) 95 mm ²						
0026651	1	.402	10.2	86	153	227	0026663	1	.854	21.7	691	929	1382
6 AWG (512/32) 16 mm ²							4/0 AWG (1690/28) 120 mm ²						
0026653	1	.461	11.7	125	200	297	0026665	1	.976	24.8	862	1177	1752
4 AWG (800/32) 25 mm ²							250 KCMIL (2123/28) 150 mm ²						
0026655	1	.512	13.0	173	275	410	0026667	1	1.063	27.0	948	1293	1924
2 AWG (1120/32) 35 mm ²							350 KCMIL (1470/26) 185 mm ²						
0026657	1	.614	15.6	269	408	607	0026669	1	1.181	30.0	1300	1754	2611
1 AWG (705/28) 50 mm ²							450 KCMIL (1905/26) 240 mm ²						
0026659	1	.697	17.7	373	543	808	0026671	1	1.287	32.7	1697	2266	3372
2/0 AWG (990/28) 70 mm ²							500 KCMIL (2385/26) 300 mm ²						
0026661	1	.787	20.0	521	726	1081	0026673	1	1.402	35.6	2102	2758	4105

OLFLEX FD® 90: Old Part Numbers

Old Part Number	New Part Number	Description
600801	0026601	8 AWG (320/32) 10 mm ²
600601	0026604	6 AWG (512/32) 16 mm ²
600401	0026608	4 AWG (800/32) 25 mm ²
600201	0026611	2 AWG (1120/32) 35 mm ²
22614	0026614	1 AWG (705/28) 50 mm ²
6021001	0026617	2/0 AWG (990/28) 70 mm ²
6030101	0026620	3/0 AWG (1340/28) 95 mm ²
6041001	0026623	4/0 AWG (1690/28) 120 mm ²
6025001	0026626	250 KCMIL (2123/28) 150 mm ²
6035001	0026629	350 KCMIL (1470/26) 185 mm ²
26635	0026635	450 KCMIL (1905/26) 240 mm ²
6050001	0026641	500 KCMIL (2385/26) 300 mm ²