

ÖLFLEX® FD 90/90 CY

Flexible single-conductor power supply cable with PVC jacket



ÖLFLEX® FD 90 is a flexible 600V UL and CSA approved single-conductor cable for continuous flex applications. It is designed with super fine wire stranding and specially formulated PVC compounds that are resistant to most mineral oils and water-based coolants. ÖLFLEX® FD 90 CY with tinned copper braid shielding is used for applications where EMI emissions need to be suppressed. For bending cycles and operation parameters, see www.lappusa.com/cf-rating

Recommended applications

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

Approvals



Unshielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated black or green/yellow PVC; non-woven wrapping

Jacket: specially formulated PVC; black

Shielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated black PVC; non-woven wrapping

Shielding: tinned copper braid

Jacket: specially formulated PVC; orange

Application advantage

- Core line for ordinary duty in power chain applications
- North American UL/CSA and European market approvals
- Suitable for dry, damp interior use
- Available in larger conductor sizes for power applications
- CSA FT1 flame retardant

Cable attributes		page 648	
	OIL	OR-01	FLAME
	MOTION	CF-02	MECH.
			FR-02
			MP-01

Complete the installation	
	SKINTOP® strain relief page 492
	EPIC® connectors page 284

ÖLFLEX® CONNECT solution	
	ÖLFLEX® CONNECT CHAIN page 617

Technical data

	Minimum bend radius:			Conductor stranding:	Class 6 super fine wire
	- for continuous flexing:	7.5 x cable diameter			
	- for stationary use:	3 x cable diameter			
	Temperature range:			Approvals:	UL: AWM 10107
	- for continuous flexing:	-5°C to +90°C			Attributes: NFPA 79
	- for stationary use:	-40°C to +90°C		Canada: CSA AWM I/II A/B FT1 (≤ 4/0 AWG) cRU AWM I/II A/B FT1 (≥ 300 KCMIL)	
	Nominal voltage:			Additional:	CE & RoHS based on VDE 0250/0281
	- UL/CSA:	600V			
	- IEC:	600/1000V			
	Test voltage:	4000V			

ÖLFLEX® FD 90

black conductor

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
8 AWG (10 mm²)						
0026601	1	0.354	9.0	65	118	S2111
6 AWG (16 mm²)						
0026604	1	0.413	10.5	103	161	S2113
4 AWG (25 mm²)						
0026608	1	0.465	11.8	161	243	S2116
2 AWG (35 mm²)						
0026611	1	0.559	14.2	226	324	S2121
1 AWG (50 mm²)						
0026614	1	0.638	16.2	323	444	S2121
2/0 AWG (70 mm²)						
0026617	1	0.720	18.3	452	603	S2129
3/0 AWG (95 mm²)						
0026620	1	0.780	19.8	613	792	S2129
4/0 AWG (120 mm²)						
0026623	1	0.921	23.4	774	1022	S2129
250 KCMIL (150 mm²)						
0026626	1	0.988	25.1	968	1169	S2136
350 KCMIL (185 mm²)						
0026629	1	1.106	28.1	1193	1549	S2136
450 KCMIL (240 mm²)						
0026635	1	1.244	31.6	1548	1978	S2248
500 KCMIL (300 mm²)						
0026641	1	1.319	33.5	1935	2382	S2248

green/yellow conductor

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
8 AWG (10 mm²)						
0026600	1	0.354	9.0	65	118	S2111
6 AWG (16 mm²)						
0026603	1	0.413	10.5	103	161	S2113
4 AWG (25 mm²)						
0026607	1	0.465	11.8	161	243	S2116
2 AWG (35 mm²)						
0026610	1	0.559	14.2	226	324	S2121
1 AWG (50 mm²)						
0026613	1	0.638	16.2	323	444	S2121
2/0 AWG (70 mm²)						
0026616	1	0.720	18.3	452	603	S2129
3/0 AWG (95 mm²)						
0026619	1	0.780	19.8	613	792	S2129
4/0 AWG (120 mm²)						
0026622	1	0.921	23.4	774	1022	S2129
250 KCMIL (150 mm²)						
0026625	1	0.988	25.1	968	1169	S2136
350 KCMIL (185 mm²)						
0026628	1	1.106	28.1	1193	1549	S2136
450 KCMIL (240 mm²)						
0026634	1	1.244	31.6	1548	1978	S2248
500 KCMIL (300 mm²)						
0026640	1	1.319	33.5	1935	2382	S2248

ÖLFLEX® FD 90 CY

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
8 AWG (10 mm²)						
0026651	1	0.382	9.7	86	153	53112230
6 AWG (16 mm²)						
0026653	1	0.441	11.2	125	200	53112240
4 AWG (25 mm²)						
0026655	1	0.492	12.5	173	276	53112240
2 AWG (35 mm²)						
0026657	1	0.594	15.1	269	408	53112250
1 AWG (50 mm²)						
0026659	1	0.673	17.1	373	543	53112260
2/0 AWG (70 mm²)						
0026661	1	0.764	19.4	521	726	53112260

* SKINTOP® MS-SC with metric thread.

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
3/0 AWG (95 mm²)						
0026663	1	0.823	20.9	691	929	53112260
4/0 AWG (120 mm²)						
0026665	1	0.965	24.5	862	1177	53112270
250 KCMIL (150 mm²)						
0026667	1	1.031	26.2	948	1293	53112270
350 KCMIL (185 mm²)						
0026669	1	1.150	29.2	1300	1755	53112270
450 KCMIL (240 mm²)						
0026671	1	1.295	32.9	1697	2266	53112670*
500 KCMIL (300 mm²)						
0026673	1	1.370	34.8	2103	2759	53112670*

 **LAPP Tannehill**

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