

# ÖLFLEX® FD 855 P/855 CP

Halogen-Free Highly Flexible Cable with PUR Jacket



ÖLFLEX® FD 855 P is designed for extreme mechanical stresses due to a tighter bend radius in continuous flex applications. Materials are halogen-free and environmentally friendly with an expanded temperature range. The polyurethane jacket is mechanically and chemically resistant to many environments. ÖLFLEX® FD 855 CP is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed.

## Recommended Applications

Cable tracks; power chains; most automated manufacturing systems; gantry robots; pick and place units; conveyor systems; machine tools, continuous flexing applications

## Approvals



## Unshielded Construction

**Conductors:** Finely stranded bare copper

**Insulation:** TPE; dry lubricant; non-woven wrapping over outer layer

**Jacket:** Polyurethane; gray

## Shielded Construction

**Conductors:** Finely stranded bare copper

**Insulation:** TPE; dry lubricant; non-woven wrapping over outer layer

**Inner Jacket:** TPE

**Shielding:** Tinned copper braid (85% coverage)

**Jacket:** Polyurethane; gray

## Application Advantage

- Our highest-performing continuous flexing cable
- Bend radius of 5 x cable diameter
- Designed for long travel distances up to 100 m horizontal
- Oil- and abrasion-resistant PUR jacket
- Cold temperature resistant to -40°C

Cable Attributes		page 640	
OIL	OR-05	FLAME	FR-02
MOTION	CF-04	MECH.	MP-05

Complete the Installation	
SKINTOP® Strain Relief	page 488
EPIC® Connectors	page 280

ÖLFLEX® CONNECT Solution	
	ÖLFLEX® CONNECT CHAIN page 609

## Technical Data

<b>Minimum Bend Radius:</b>	- for continuous flexing: 5 x cable diameter	<b>Conductor Stranding:</b>	Class 6 super fine wire
	- shielded: 7.5 x cable diameter	<b>Color Code:</b>	Black with white numbers, plus green/yellow ground
<b>Temperature Range:</b>	- for continuous flexing: -40°C to +80°C	<b>Approvals:</b>	UL: AWM 21576
	- for stationary use: -50°C to +80°C		Attributes: NFPA 79
<b>Nominal Voltage:</b>	- UL/c(UL): 1000V		Canada: cRU AWM I/II A/B
	- U <sub>0</sub> /U: 300/500V		Additional: CE & RoHS
<b>Test Voltage:</b>	3000V		MUD acc. to IEC 61892-4 Annex D
			Halogen-free: VDE 0472-815

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.

ÖLFLEX® FD 855 P

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
<b>20 AWG (0.50 mm<sup>2</sup>)</b>							<b>18 AWG (1.00 mm<sup>2</sup>)</b>						
0027530*	2	0.201	5.1	7	23	S1107	0027560*	2	0.236	6.0	13	34	S1107
0027531	3	0.217	5.5	9	27	S1107	0027561	3	0.256	6.5	19	41	S1109
0027532	5	0.260	6.6	16	37	S1109	0027562	4	0.283	7.2	26	47	S1111
0027533	6	0.280	7.1	19	42	S1111	0027563	5	0.307	7.8	32	62	S1111
0027534	7	0.303	7.7	23	51	S1111	0027564	7	0.374	9.5	45	82	S1111
0027535	12	0.358	9.1	39	77	S1111	0027565	12	0.441	11.2	77	132	S1113
0027536	18	0.429	10.9	58	111	S1113	0027566	18	0.539	13.7	116	184	S1121
0027537	20	0.453	11.5	65	121	S1113	0027568	25	0.661	16.8	161	259	S1121
0027538	25	0.528	13.4	81	147	S1116	<b>16 AWG (1.50 mm<sup>2</sup>)</b>						
0027540	30	0.535	13.6	97	169	S1121	0027575*	2	0.264	6.7	19	46	S1109
0027541	36	0.579	14.7	116	195	S1121	0027576	3	0.287	7.3	29	56	S1111
<b>19 AWG (0.75 mm<sup>2</sup>)</b>							0027586	4	0.315	8.0	39	67	S1111
0027545*	2	0.220	5.6	9	28	S1107	0027577	5	0.354	9.0	48	86	S1111
0027546	3	0.236	6.0	15	34	S1107	0027578	7	0.422	10.7	68	119	S1113
0027547	4	0.264	6.7	19	40	S1109	0027579	12	0.500	12.7	116	185	S1116
0027548	5	0.287	7.3	24	48	S1111	0027580	18	0.598	15.2	174	272	S1121
0027549	7	0.346	8.8	34	67	S1111	0027582	25	0.740	18.8	242	380	S1129
0027550	12	0.406	10.3	58	106	S1113	0027585	36	0.811	20.6	348	510	S1129
0027551	18	0.488	12.4	87	147	S1116	0027587	41	0.882	22.4	413	657	S1129
0027552	20	0.524	13.3	97	161	S1116	<b>14 AWG (2.50 mm<sup>2</sup>)</b>						
0027553	25	0.610	15.5	121	208	S1121	0027370	3	0.350	8.9	48	81	S1111
0027555	36	0.665	16.9	174	276	S1121	0027371	4	0.390	9.9	65	110	S1113
							0027372	5	0.433	11.0	81	132	S1113
							0027373	7	0.528	13.4	113	179	S1116
							0027374	12	0.622	15.8	194	300	S1121
							0027375	18	0.744	18.9	290	447	S1129
							0027376	25	0.925	23.5	403	624	S1129

\* 2c cable does not include ground

ÖLFLEX® FD 855 CP

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	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
<b>20 AWG (0.50 mm<sup>2</sup>)</b>							<b>18 AWG (1.00 mm<sup>2</sup>)</b>						
0027605*	2	0.264	6.7	22	45	53112210	0027635*	2	0.299	7.6	30	62	53112220
0027606	3	0.280	7.1	27	53	53112210	0027636	3	0.319	8.1	37	73	53112220
0027607	5	0.323	8.2	36	72	53112220	0027637	4	0.346	8.8	46	85	53112220
0027608	6	0.343	8.7	40	81	53112220	0027638	5	0.378	9.6	54	99	53112230
0027609	7	0.374	9.5	45	89	53112230	0027639	7	0.445	11.3	71	132	53112240
0027610	12	0.429	10.9	65	128	53112230	0027640	12	0.520	13.2	118	196	53112240
0027611	18	0.508	12.9	88	165	53112240	0027641	18	0.626	15.9	163	281	53112250
0027612	20	0.531	13.5	105	189	53112240	0027643	25	0.768	19.5	221	386	53112260
0027613	25	0.614	15.6	128	247	53112250	<b>16 AWG (1.50 mm<sup>2</sup>)</b>						
0027615	30	0.622	15.8	149	274	53112250	0027649*	2	0.327	8.3	39	77	53112220
0027616	36	0.665	16.9	169	308	53112250	0027650	3	0.350	8.9	51	93	53112220
<b>19 AWG (0.75 mm<sup>2</sup>)</b>							0027661	4	0.386	9.8	61	105	53112230
0027620*	2	0.283	7.2	27	53	53112220	0027651	5	0.425	10.8	75	133	53112230
0027621	3	0.299	7.6	32	65	53112220	0027652	7	0.492	12.5	97	171	53112240
0027622	4	0.327	8.3	39	75	53112220	0027653	12	0.587	14.9	163	280	53112250
0027623	5	0.350	8.9	44	85	53112220	0027654	18	0.685	17.4	233	379	53112260
0027624	7	0.417	10.6	57	111	53112230	0027656	25	0.843	21.4	327	545	53112260
0027625	12	0.476	12.1	85	155	53112240	<b>14 AWG (2.50 mm<sup>2</sup>)</b>						
0027626	18	0.575	14.6	133	222	53112250	0027380	3	0.421	10.7	74	130	53112230
0027628	25	0.697	17.7	174	308	53112260	0027381	4	0.461	11.7	91	157	53112240
0027630	36	0.768	19.5	234	407	53112260	0027382	5	0.504	12.8	121	197	53112240
							0027383	7	0.614	15.6	165	281	53112250
							0027384	12	0.709	18.0	253	423	53112260
							0027385	18	0.846	21.5	382	613	53112260
							0027386	25	1.043	26.5	514	851	53112270

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. For current information go to our website.