

ÖLFLEX® TRAY II/TRAY II CY

Extremely oil-resistant & flexible tray cable with UL & CSA; unshielded & shielded



ÖLFLEX® TRAY II is an industrial grade tray cable with superior oil performance for long cable life. It has a pressure-extruded jacket and fine copper stranding for excellent flexibility, making it much easier to pull through tray. With UL TC-ER approval, no conduit is needed so you can reduce material costs along with saving on labor. ÖLFLEX® TRAY II CY is designed with foil tape and tinned copper braid shield for improved effectiveness.

Recommended applications

Industrial plant expansions; automotive plants; tray wiring; anywhere VNTC® cables are used

Approvals



Cable attributes		page 648	
OIL	OR-03	FLAME	FR-03
MOTION	WT-02	MECH.	MP-03

Unshielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated PVC/nylon

Jacket: specially formulated thermoplastic polymer; black

Shielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated PVC/nylon

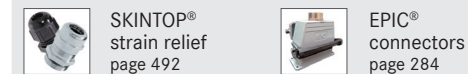
Shielding: foil tape; tinned copper braid (70% coverage)

Jacket: specially formulated thermoplastic polymer; black

Application advantage

- Oil-resistant pressure-extruded jacket improves flexibility
- Easier to pull than standard tray cables; lower labor costs
- UL TC-ER reduces material costs; no conduit is needed
- Black numbered conductors for easy identification
- Improved shielding effectiveness

Complete the installation



Technical data

<p> Minimum bend radius: - for installation: - < 1 AWG: 4 x cable diameter - ≥ 1 AWG: 6 x cable diameter - shielded: 6 x cable diameter</p> <p> Temperature range: - UL/CSA TC: -25°C to +90°C - for stationary use: -40°C to +105°C - for flexible use: -25°C to +105°C</p> <p> Nominal voltage: - UL/CSA TC: 600V - UL WTTC/CSA AWM: 1000V</p> <p> Test voltage: - up to 1 AWG: 2000V - 1 AWG & larger: 4000V</p> <p> Conductor stranding: - 18-6 AWG: Class 5 fine wire* - 4-2 AWG: Class K fine wire - 1 AWG - 500 KCMIL: stranded wire * 18 AWG meets only Class 5 cross section and DC resistance</p>	<p> Color code: black with white printing, plus green/yellow ground</p> <p> Approvals:</p> <p>UL: TC-ER per UL 1277 MTW per UL 1063 WTTC per UL 2277 submersible pump (14 - 2 AWG) PLTC-ER per UL 13 (18 - 12 AWG) ITC-ER per UL 2250 (18 - 12 AWG) DP-1 per UL 1690 AWM 20886 (18 - 2 AWG)</p> <p>Attributes: UL Oil Res I/II 75°C wet; 90°C dry sunlight resistant direct burial NFPA 79</p> <p>NEC: Class 1 Division 2 per NEC Article 501 Canada: c(UL) CIC/TC FT4 (18 - 4/0 AWG) CSA AWM I/II A/B FT4</p> <p>Additional: torsion rated for wind market (± 90°/m) & (± 150°/m) (18 - 2 AWG) CE & RoHS MSHA: P-07-KA050016-MSHA (shielded only)</p>
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 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.

ÖLFLEX® TRAY II

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
18 AWG (1 mm²)						
221803	3	0.297	7.5	20	57	S2111
221804	4	0.320	8.1	26	66	S2111
221805	5	0.346	8.8	33	77	S2111
221807	7	0.373	9.5	46	99	S2111
221809	9	0.429	10.9	59	112	S2113
221812	12	0.477	12.1	79	172	S2116
221818	18	0.587	14.9	118	245	S2121
221825	25	0.664	16.9	164	322	S2121
221850	50	0.939	23.9	303	646	S2129
16 AWG (1.5 mm²)						
221603	3	0.325	8.3	29	68	S2111
221604	4	0.351	8.9	39	84	S2111
221605	5	0.381	9.7	49	99	S2113
221607	7	0.412	10.5	68	128	S2113
221608	8	0.444	11.3	78	137	S2113
221609	9	0.476	12.1	88	172	S2116
221612	12	0.565	14.4	117	220	S2121
221616	16	0.621	15.8	155	271	S2121
221618	18	0.652	16.6	175	289	S2121
221625	25	0.741	18.8	242	397	S2129
221634	34	0.904	23.0	296	540	S2129
221641	41	0.986	25.0	357	626	S2136
221650	50	1.048	26.6	436	760	S2136
221661	61	1.085	27.6	533	771	S2136
14 AWG (2.5 mm²)						
221403	3	0.362	9.2	49	88	S2111
221404	4	0.392	10.0	65	106	S2113
221405	5	0.427	10.8	81	128	S2113
221407	7	0.463	11.8	113	170	S2116
221409	9	0.571	14.5	146	225	S2121
221412	12	0.636	16.2	194	309	S2121
221418	18	0.737	18.7	290	439	S2129
221425	25	0.886	22.5	404	586	S2129
12 AWG (4 mm²)						
221203	3	0.423	10.7	78	126	S2113
221204	4	0.460	11.7	104	152	S2113

* SKINTOP® MS-M with metric thread

ÖLFLEX® TRAY II CY

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
18 AWG (1 mm²)						
2218030	3	0.322	8.2	29	79	53112220
2218040	4	0.346	8.8	38	93	53112220
2218050	5	0.371	9.4	45	99	53112230
2218070	7	0.398	10.1	59	130	53112230
2218120	12	0.508	12.9	101	223	53112240
2218180	18	0.618	15.7	145	295	53112250
2218250	25	0.695	17.7	238	386	53112260
16 AWG (1.5 mm²)						
2216030	3	0.350	8.9	41	97	53112220
2216040	4	0.376	9.6	51	117	53112230
2216050	5	0.406	10.3	63	128	53112230
2216070	7	0.443	11.3	88	165	53112240
2216120	12	0.596	15.1	144	287	53112250
2216180	18	0.683	17.3	210	346	53112260
2216250	25	0.772	19.6	280	430	53112260
14 AWG (2.5 mm²)						
2214030	3	0.387	9.8	62	121	53112230
2214040	4	0.423	10.7	85	150	53112230
2214050	5	0.458	11.6	101	181	53112240

* SKINTOP® MS-SC with metric thread

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
		in	mm			
221205	5	0.503	12.8	129	187	S2116
221207	7	0.581	14.8	181	258	S2121
10 AWG (6 mm²)						
221003	3	0.498	12.6	117	218	S2116
221004	4	0.578	14.7	155	264	S2121
221005	5	0.631	16.0	194	317	S2121
221007	7	0.686	17.4	271	445	S2129
8 AWG (10 mm²)						
220804	4	0.703	17.9	258	384	S2129
220805	5	0.772	19.6	323	518	S2129
6 AWG (16 mm²)						
220603	3	0.776	19.7	310	454	S2129
220604	4	0.899	22.8	413	580	S2129
220605	5	0.982	24.9	517	725	S2136
4 AWG (21 mm²)						
220403	3	0.999	25.3	386	919	S2136
220404	4	1.094	27.8	544	952	S2136
2 AWG (33.7 mm²)						
220203	3	1.155	29.3	658	1085	S2136
220204	4	1.272	32.3	859	1320	S2248
1 AWG (42.5 mm²)						
220104	4	1.373	34.9	1033	1780	53112170*
1/0 AWG (53.7 mm²)						
221104	4	1.474	37.4	1337	2035	53112070*
2/0 AWG (67.7 mm²)						
222204	4	1.601	40.7	1602	2475	53112070*
3/0 AWG (85.3 mm²)						
223304	4	1.828	46.4	2000	3015	53112080*
4/0 AWG (107.6 mm²)						
224404	4	1.980	50.3	2503	3835	53112080*
250 KCMIL (127.1 mm²)						
222504	4	2.190	55.6	3105	4405	53112511*
350 KCMIL (177.9 mm²)						
223504	4	2.337	59.4	4602	5995	53112511*
500 KCMIL (254.1 mm²)						
225004	4	2.813	71.5	5649	6216	53112512*

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.