

# 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 640	
OIL	OR-03	FLAME	FR-03
MOTION	WT-02	MECH.	MP-03

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

## 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

## Technical Data

<p> <b>Minimum Bend Radius:</b>                  - for installation:                    - &lt; 1 AWG: 4 x cable diameter                    - ≥ 1 AWG: 6 x cable diameter                  - shielded: 6 x cable diameter</p> <p> <b>Temperature Range:</b>                  - 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> <b>Nominal Voltage:</b>                  - UL/CSA TC: 600V                  - UL WTTC/CSA AWM: 1000V</p> <p> <b>Test Voltage:</b>                  - up to 1 AWG: 2000V                  - 1 AWG &amp; larger: 4000V</p> <p> <b>Conductor Stranding:</b>                  - 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> <b>Color Code:</b> Black with white printing, plus green/yellow ground</p> <p> <b>Approvals:</b></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) &amp; (± 150°/m)                  (18 - 2 AWG)                  CE &amp; RoHS                  MSHA: P-07-KA050016-MSHA (shielded only)</p>
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ÖLFLEX® TRAY II

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>18 AWG (1.00 mm<sup>2</sup>)</b>							<b>10 AWG (6 mm<sup>2</sup>)</b>						
221803	3	0.297	7.5	20	57	S2111	221003	3	0.498	12.6	117	218	S2116
221804	4	0.320	8.1	26	66	S2111	221004	4	0.578	14.7	155	264	S2121
221805	5	0.346	8.8	33	77	S2111	221005	5	0.631	16.0	194	317	S2121
221807	7	0.373	9.5	46	99	S2111	221007	7	0.686	17.4	271	445	S2129
221809	9	0.429	10.9	59	112	S2113	<b>8 AWG (10 mm<sup>2</sup>)</b>						
221812	12	0.477	12.1	79	172	S2116	220804	4	0.703	17.9	258	384	S2129
221818	18	0.587	14.9	118	245	S2121	220805	5	0.772	19.6	323	518	S2129
221825	25	0.664	16.9	164	322	S2121	<b>6 AWG (16 mm<sup>2</sup>)</b>						
221850	50	0.939	23.9	303	646	S2129	220603	3	0.776	19.7	310	454	S2129
<b>16 AWG (1.50 mm<sup>2</sup>)</b>							220604	4	0.899	22.8	413	580	S2129
221603	3	0.325	8.3	29	68	S2111	220605	5	0.982	24.9	517	725	S2136
221604	4	0.351	8.9	39	84	S2111	<b>4 AWG (21 mm<sup>2</sup>)</b>						
221605	5	0.381	9.7	49	99	S2113	220403	3	0.999	25.3	386	919	S2136
221607	7	0.412	10.5	68	128	S2113	220404	4	1.094	27.8	544	952	S2136
221608	8	0.444	11.3	78	137	S2113	<b>2 AWG (33.7 mm<sup>2</sup>)</b>						
221609	9	0.476	12.1	88	172	S2116	220203	3	1.155	29.3	658	1085	S2136
221612	12	0.565	14.4	117	220	S2121	220204	4	1.272	32.3	859	1320	S2248
221616	16	0.621	15.8	155	271	S2121	<b>1 AWG (42.5 mm<sup>2</sup>)</b>						
221618	18	0.652	16.6	175	289	S2121	220104	4	1.373	34.9	1033	1780	S2142
221625	25	0.741	18.8	242	397	S2129	<b>1/0 AWG (53.7 mm<sup>2</sup>)</b>						
221634	34	0.904	23.0	296	540	S2129	221104	4	1.474	37.4	1337	2035	S2142
221641	41	0.986	25.0	357	626	S2136	<b>2/0 AWG (67.7 mm<sup>2</sup>)</b>						
221650	50	1.048	26.6	436	760	S2136	222204	4	1.601	40.7	1602	2475	S2148
221661	61	1.085	27.6	533	771	S2136	<b>3/0 AWG (85.3 mm<sup>2</sup>)</b>						
<b>14 AWG (2.50 mm<sup>2</sup>)</b>							223304	4	1.828	46.4	2000	3015	53112080*
221403	3	0.362	9.2	49	88	S2111	<b>4/0 AWG (107.6 mm<sup>2</sup>)</b>						
221404	4	0.392	10.0	65	106	S2113	224404	4	1.980	50.3	2503	3835	53112080*
221405	5	0.427	10.8	81	128	S2113	<b>250 KCMIL (127.1 mm<sup>2</sup>)</b>						
221407	7	0.463	11.8	113	170	S2116	222504	4	2.190	55.6	3105	4405	53112511*
221409	9	0.571	14.5	146	225	S2121	<b>350 KCMIL (177.9 mm<sup>2</sup>)</b>						
221412	12	0.636	16.2	194	309	S2121	223504	4	2.337	59.4	4602	5995	53112511*
221418	18	0.737	18.7	290	439	S2129	<b>500 KCMIL (254.1 mm<sup>2</sup>)</b>						
221425	25	0.886	22.5	404	586	S2129	225004	4	2.813	71.5	5649	6216	53112512*
<b>12 AWG (4 mm<sup>2</sup>)</b>													
221203	3	0.423	10.7	78	126	S2113							
221204	4	0.460	11.7	104	152	S2113							
221205	5	0.503	12.8	129	187	S2116							
221207	7	0.581	14.8	181	258	S2121							

\* SKINTOP® MS-M: nickel-plated brass with metric thread.

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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>18 AWG (1.00 mm<sup>2</sup>)</b>							<b>12 AWG (4 mm<sup>2</sup>)</b>						
2218030	3	0.322	8.2	29	79	53112220	2212040	4	0.491	12.5	126	212	53112240
2218040	4	0.346	8.8	38	93	53112220	2212050	5	0.568	14.4	157	260	53112250
2218050	5	0.371	9.4	45	99	53112230	2212070	7	0.612	15.5	209	335	53112250
2218070	7	0.398	10.1	59	130	53112230	<b>10 AWG (6 mm<sup>2</sup>)</b>						
2218120	12	0.508	12.9	101	223	53112240	2210040	4	0.609	15.5	183	370	53112250
2218180	18	0.618	15.7	145	295	53112250	2210050	5	0.662	16.8	224	412	53112250
2218250	25	0.695	17.7	238	386	53112260	2210070	7	0.717	18.2	308	575	53112260
<b>16 AWG (1.50 mm<sup>2</sup>)</b>							<b>8 AWG (10 mm<sup>2</sup>)</b>						
2216030	3	0.350	8.9	41	97	53112220	2208040	4	0.737	18.7	295	575	53112260
2216040	4	0.376	9.6	51	117	53112230	<b>6 AWG (16 mm<sup>2</sup>)</b>						
2216050	5	0.406	10.3	63	128	53112230	2206040	4	0.918	23.3	470	811	53112260
2216070	7	0.443	11.3	88	165	53112240	<b>4 AWG (21 mm<sup>2</sup>)</b>						
2216120	12	0.596	15.1	144	287	53112250	2204040	4	1.127	28.6	579	1331	53112270
2216180	18	0.683	17.3	210	346	53112260	<b>2 AWG (33.7 mm<sup>2</sup>)</b>						
2216250	25	0.772	19.6	280	430	53112260	2202040	4	1.309	33.2	950	1951	53112670*
<b>14 AWG (2.50 mm<sup>2</sup>)</b>													
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							
2214070	7	0.494	12.5	136	220	53112240							
2214120	12	0.667	16.9	225	399	53112250							
2214180	18	0.768	19.5	328	527	53112260							
2214250	25	0.917	23.3	461	705	53112260							

\* SKINTOP® MS-SC with metric thread.

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.