

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 page 488	EPIC® Connectors 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

Minimum Bend Radius:

- for installation:
- < 1 AWG: 4 x cable diameter
- ≥ 1 AWG: 6 x cable diameter
- shielded: 6 x cable diameter

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

Nominal Voltage:

- UL/CSA TC: 600V
- UL WTTC/CSA AWM: 1000V

Test Voltage:

- up to 1 AWG: 2000V
- 1 AWG & larger: 4000V

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

Color Code:

Black with white printing, plus green/yellow ground

Approvals:

- 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)
- Attributes: UL Oil Res I/II
 75°C Wet; 90°C Dry
 Sunlight Resistant
 Direct Burial
 NFPA 79
- 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
- Additional: Torsion Rated for Wind Market
 (± 90°/m) & (± 150°/m)
 (18 - 2 AWG)
 CE & RoHS
 MSHA: P-07-KA050016-MSHA (shielded only)

VNTC® is a registered trademark of General Cable. 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® 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
18 AWG (1.00 mm²)							10 AWG (6 mm²)						
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	8 AWG (10 mm²)						
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	6 AWG (16 mm²)						
221850	50	0.939	23.9	303	646	S2129	220603	3	0.776	19.7	310	454	S2129
16 AWG (1.50 mm²)							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	4 AWG (21 mm²)						
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	2 AWG (33.7 mm²)						
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	1 AWG (42.5 mm²)						
221618	18	0.652	16.6	175	289	S2121	220104	4	1.440	35.9	1076	1780	S2142
221625	25	0.741	18.8	242	397	S2129	1/0 AWG (53.7 mm²)						
221634	34	0.904	23.0	296	540	S2129	221104	4	1.540	39.1	1349	2035	S2148
221641	41	0.986	25.0	357	626	S2136	2/0 AWG (67.7 mm²)						
221650	50	1.048	26.6	436	760	S2136	222204	4	1.662	42.2	1713	2475	S2148
221661	61	1.085	27.6	533	771	S2136	3/0 AWG (85.3 mm²)						
14 AWG (2.50 mm²)							223304	4	1.824	46.3	2073	3015	S2148
221403	3	0.362	9.2	49	88	S2111	4/0 AWG (107.6 mm²)						
221404	4	0.392	10.0	65	106	S2113	224404	4	1.990	50.5	2724	3835	53112080*
221405	5	0.427	10.8	81	128	S2113	250 KCMIL (127.1 mm²)						
221407	7	0.463	11.8	113	170	S2116	222504	4	2.145	54.5	3156	4405	531112511*
221409	9	0.571	14.5	146	225	S2121	350 KCMIL (177.9 mm²)						
221412	12	0.636	16.2	194	309	S2121	223504	4	2.482	63.0	4513	5995	53112510*
221418	18	0.737	18.7	290	439	S2129	500 KCMIL (254.1 mm²)						
221425	25	0.886	22.5	404	586	S2129	225004	4	2.795	71.0	6216	7915	53112512*
12 AWG (4 mm²)													
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.

ÖLFLEX® TRAY II 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	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
18 AWG (1.00 mm²)							12 AWG (4 mm²)						
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	10 AWG (6 mm²)						
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
16 AWG (1.50 mm²)							8 AWG (10 mm²)						
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	6 AWG (16 mm²)						
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	4 AWG (21 mm²)						
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	2 AWG (33.7 mm²)						
2216250	25	0.772	19.6	280	430	53112260	2202040	4	1.309	33.2	950	1951	53112670*
14 AWG (2.50 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							
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.