

ÖLFLEX® CONTROL TM/TM CY

Extremely oil-resistant flexible control cable with UL MTW & UL/CSA TC



ÖLFLEX® CONTROL TM is a multi-conductor cable designed for use on machine tool equipment and other industrial machinery conforming to NFPA 79 wiring norms. ÖLFLEX® CONTROL TM is also UL/CSA TC approved so it can be routed in tray as well. ÖLFLEX® CONTROL TM CY has foil tape and a tinned copper braid shield for improved effectiveness against noise and interference.

Recommended applications

Machine tool machinery; food & beverage; processing equipment; machine wiring for conformance to NFPA 79

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; gray

Shielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated PVC/nylon

Shielding: foil tape; tinned copper braid (85% coverage)

Jacket: specially formulated thermoplastic polymer; gray

Application advantage

- Conforms to NFPA 79 standards for wiring machinery
- Gray jacket and number-coded for easy connection
- UL TC-ER approval so it can be installed off the machine and into an overhead tray without conduit
- Flexible copper stranding and pressure-extruded jacket, improved shielding effectiveness

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

Technical data

Minimum bend radius:	
- for installation:	4 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 +90°C
Nominal voltage:	
- UL/CSA TC:	600V
- UL WTTC:	1000V
Test voltage:	2000V
Conductor stranding:	Class 5 fine wire*
* 18 AWG meets only Class 5 cross section and DC resistance	
Color code:	black with white numbers, 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 bus drop cable (14 AWG & larger; 3c & 4c only) AWM 20886 & 21098 (Oil)
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-ER 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)

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® CONTROL TM

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
18 AWG (1 mm²)						
281803	3	0.291	7.4	20	55	S1111
281804	4	0.315	8.0	26	64	S1111
281805	5	0.340	8.6	33	75	S1111
281807	7	0.367	9.3	46	97	S1111
281809	9	0.423	10.7	59	108	S1113
281812	12	0.471	12.0	79	165	S1116
281818	18	0.579	14.7	118	245	S1121
281819	19	0.579	14.7	124	262	S1121
281825	25	0.656	16.7	164	311	S1121
16 AWG (1.5 mm²)						
281603	3	0.319	8.1	29	66	S1111
281604	4	0.345	8.8	39	79	S1111
281605	5	0.375	9.5	48	95	S1111
281607	7	0.406	10.3	68	123	S1113
281609	9	0.470	11.9	88	165	S1116
281612	12	0.557	14.1	116	214	S1121
281618	18	0.644	16.4	175	289	S1121
281619	19	0.644	16.4	184	293	S1121
281625	25	0.733	18.6	242	311	S1129

* Cable meets UL bus drop approval

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® SL
		in	mm	lbs/mft	lbs/mft	PG thread
14 AWG (2.5 mm²)						
281403*	3	0.356	9.0	49	88	S1111
281404*	4	0.386	9.8	65	106	S1113
281405	5	0.421	10.7	81	123	S1113
281407	7	0.457	11.6	113	163	S1113
281409	9	0.563	14.3	146	218	S1121
281412	12	0.628	16.0	194	298	S1121
281419	19	0.729	18.5	307	450	S1129
281425	25	0.872	22.1	404	569	S1129
12 AWG (4 mm²)						
281203*	3	0.417	10.6	78	110	S1113
281204*	4	0.454	11.5	104	148	S1113
281205	5	0.497	12.6	129	181	S1116
281207	7	0.573	14.6	181	324	S1121
281209	9	0.665	16.9	233	359	S1121
10 AWG (6 mm²)						
281003*	3	0.492	12.5	117	194	S1116
281004*	4	0.570	14.5	155	256	S1121
281005	5	0.623	15.8	194	306	S1121
281007	7	0.678	17.2	271	430	S1121
281009	9	0.791	20.1	349	549	S1129

ÖLFLEX® CONTROL TM 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
18 AWG (1 mm²)						
281803CY	3	0.316	8.0	37	79	53112220
281804CY	4	0.339	8.6	41	93	53112220
281805CY	5	0.365	9.3	55	99	53112220
281807CY	7	0.392	10.0	69	130	53112230
281812CY	12	0.502	12.8	109	223	53112240
281819CY	19	0.610	15.5	172	295	53112250
281825CY	25	0.687	17.4	222	386	53112260
16 AWG (1.5 mm²)						
281603CY	3	0.344	8.7	44	97	53112220
281604CY	4	0.370	9.4	60	117	53112230
281605CY	5	0.400	10.2	72	128	53112230
281607CY	7	0.437	11.1	94	165	53112230
281612CY	12	0.588	14.9	151	287	53112250
281618CY	18	0.675	17.1	227	326	53112260
281625CY	25	0.764	19.4	305	476	53112260

* Cable meets UL bus drop approval

Part number	Number of conductors incl. ground	Nominal outer diameter inmm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
14 AWG (2.5 mm²)						
281403CY*	3	0.381	9.7	71	121	53112230
281404CY*	4	0.411	10.4	91	150	53112230
281405CY	5	0.452	11.5	108	181	53112240
281407CY	7	0.488	12.4	143	220	53112240
281412CY	12	0.659	16.7	246	399	53112250
281419CY	19	0.760	19.3	369	527	53112260
281425CY	25	0.903	22.9	474	705	53112260
12 AWG (4 mm²)						
281203CY*	3	0.448	11.4	104	161	53112240
281204CY*	4	0.485	12.3	133	212	53112240
281205CY	5	0.560	14.2	163	260	53112250
281207CY	7	0.604	15.3	217	452	53112250
10 AWG (6 mm²)						
281003CY*	3	0.555	14.1	150	271	53112250
281004CY*	4	0.601	15.3	191	370	53112250
281005CY	5	0.654	16.6	245	412	53112250
281007CY	7	0.709	18.0	330	575	53112260

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
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