

ÖLFLEX® CONTROL TM/TM CY

Extremely Oil-Resistant Flexible Control Cable with UL MTW & UL/CSA TC; Unshielded & Shielded



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 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; gray

Shielded Construction

- Conductors:** Finely stranded bare copper
- Insulation:** Specially formulated PVC/nylon
- Shielding:** Foil tape and 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

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
 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 FT4
 CSA AWM I/II A/B FT4
 Additional: Torsion rated for Wind Market
 (± 90°/m) & (± 150°/m)
 CE & RoHS

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® CONTROL TM

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)							14 AWG (2.50 mm²)						
281803	3	0.291	7.4	20	55	S 1111	281403*	3	0.356	9.0	49	88	S 1111
281804	4	0.315	8.0	26	64	S 1111	281404*	4	0.386	9.8	65	106	S 1113
281805	5	0.340	8.6	33	75	S 1111	281405	5	0.421	10.7	81	123	S 1113
281807	7	0.367	9.3	46	97	S 1111	281407	7	0.457	11.6	113	163	S 1113
281809	9	0.423	10.7	59	108	S 1113	281409	9	0.563	14.3	146	218	S 1121
281812	12	0.471	12.0	79	165	S 1116	281412	12	0.628	16.0	194	298	S 1121
281818	18	0.579	14.7	118	245	S 1121	281419	19	0.729	18.5	307	450	S 1129
281819	19	0.579	14.7	124	262	S 1121	281425	25	0.872	22.1	404	569	S 1129
281825	25	0.656	16.7	164	311	S 1121	12 AWG (4 mm²)						
16 AWG (1.50 mm²)							10 AWG (6 mm²)						
281603	3	0.319	8.1	29	66	S 1111	281203*	3	0.417	10.6	78	110	S 1113
281604	4	0.345	8.8	39	79	S 1111	281204*	4	0.454	11.5	104	148	S 1113
281605	5	0.375	9.5	48	95	S 1111	281205	5	0.497	12.6	129	181	S 1116
281607	7	0.406	10.3	68	123	S 1113	281207	7	0.573	14.6	181	324	S 1121
281609	9	0.470	11.9	88	165	S 1116	281209	9	0.665	16.9	233	359	S 1121
281612	12	0.557	14.1	116	214	S 1121	10 AWG (6 mm²)						
281618	18	0.644	16.4	175	289	S 1121	281003*	3	0.492	12.5	117	194	S 1116
281619	19	0.644	16.4	184	293	S 1121	281004*	4	0.570	14.5	155	256	S 1121
281625	25	0.733	18.6	242	311	S 1129	281005	5	0.623	15.8	194	306	S 1121
							281007	7	0.678	17.2	271	430	S 1121
							281009	9	0.791	20.1	349	549	S 1129

* Cable meets UL Bus Drop Approval

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	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)							14 AWG (2.50 mm²)						
281803CY	3	0.316	8.0	37	79	53112220	281403CY*	3	0.381	9.7	71	121	53112230
281804CY	4	0.339	8.6	41	93	53112220	281404CY*	4	0.411	10.4	91	150	53112230
281805CY	5	0.365	9.3	55	99	53112220	281405CY	5	0.452	11.5	108	181	53112240
281807CY	7	0.392	10.0	69	130	53112230	281407CY	7	0.488	12.4	143	220	53112240
281812CY	12	0.502	12.8	109	223	53112240	281412CY	12	0.659	16.7	246	399	53112250
281819CY	19	0.610	15.5	172	295	53112250	281419CY	19	0.760	19.3	369	527	53112260
281825CY	25	0.687	17.4	222	386	53112260	281425CY	25	0.903	22.9	474	705	53112260
16 AWG (1.50 mm²)							12 AWG (4 mm²)						
281603CY	3	0.344	8.7	44	97	53112220	281203CY*	3	0.448	11.4	104	161	53112240
281604CY	4	0.370	9.4	60	117	53112230	281204CY*	4	0.485	12.3	133	212	53112240
281605CY	5	0.400	10.2	72	128	53112230	281205CY	5	0.560	14.2	163	260	53112250
281607CY	7	0.437	11.1	94	165	53112230	281207CY	7	0.604	15.3	217	452	53112250
281612CY	12	0.588	14.9	151	287	53112250	10 AWG (6 mm²)						
281618CY	18	0.675	17.1	227	326	53112260	281003CY*	3	0.555	14.1	150	271	53112250
281625CY	25	0.764	19.4	305	476	53112260	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

* Cable meets UL Bus Drop Approval

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.