

# 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 2012 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 2012

## Approvals



## Unshielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC/nylon

Jacket: Specially formulated thermoplastic polymer; gray

## Shielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC/nylon

Shielding: Foil tape and tinned copper braid (85% coverage)

Jacket: Specially formulated thermoplastic polymer; gray

## Application Advantage

- Industrial grade PVC jacket (Oil Res I/II)
- Conforms to NFPA 79 2012 standards for wiring machinery (UL MTW)
- 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

Cable Attributes, see page 659			
OR-03	FR-03	WT-02	MP-03
OIL	FLAME	MOTION	MECHANICAL

### Similar Cables

- ÖLFLEX® 190/190 CY
- ÖLFLEX® TRAY II/TRAY II CY

### Complete the Installation

SKINTOP® Strain Relief: page 502	EPIC® Connectors: page 278
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## Technical Data:

<input checked="" type="checkbox"/> <b>Minimum Bend Radius:</b> - for installation: 4 x cable diameter - shielded: 6 x cable diameter	<input checked="" type="checkbox"/> <b>Approvals:</b> UL: TC-ER per UL 1277 MTW per UL 1063 WTTC per UL 2277 Bus Drop Cable (14 AWG & larger; 3c & 4c only) AWM 2587 & 21098 (Oil)
<input checked="" type="checkbox"/> <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 +90°C	<b>Attributes:</b> UL Oil Res I/II 75°C Wet; 90°C Dry Sunlight Resistant Direct Burial NFPA 79 2012 Bus Drop Approval
<input checked="" type="checkbox"/> <b>Nominal Voltage:</b> - UL/CSA TC: 600V - UL WTTC: 1000V	<b>NEC:</b> Class 1, Division 2 per NEC Article 501
<input checked="" type="checkbox"/> <b>Test Voltage:</b> 2000V	<b>Canada:</b> c(UL) CIC/TC FT4 CSA AWM I/II A/B FT4
<input checked="" type="checkbox"/> <b>Conductor Stranding:</b> Class 5 fine wire*	<b>Additional:</b> Torsion rated for Wind Market (± 90°/m) & (± 150°/m) Passes Impact and Crush test per UL 1277 (excluding 20 AWG) CE & RoHS
<input checked="" type="checkbox"/> <b>Color Code:</b> Black with white numbers, plus green/yellow ground	

\* 18 AWG meets only the Class 5 cross section and DC resistance

Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

ÖLFLEX® CONTROL TM

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (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>14 AWG (2.50 mm<sup>2</sup>)</b>						
281803	3	0.291	7.4	20	55	S1111	281403*	3	0.356	9.0	49	88	S1111
281804	4	0.315	8.0	26	64	S1111	281404*	4	0.386	9.8	65	106	S1113
281805	5	0.340	8.6	33	75	S1111	281405	5	0.421	10.7	81	123	S1113
281807	7	0.367	9.3	46	97	S1111	281407	7	0.457	11.6	113	163	S1113
281809	9	0.423	10.7	59	108	S1113	281409	9	0.563	14.3	146	218	S1121
281812	12	0.471	12.0	79	165	S1116	281412	12	0.628	16.0	194	298	S1121
281818	18	0.579	14.7	118	245	S1121	281419	19	0.729	18.5	307	450	S1129
281819	19	0.579	14.7	124	262	S1121	281425	25	0.872	22.1	404	569	S1129
281825	25	0.656	16.7	164	311	S1121	<b>12 AWG (4 mm<sup>2</sup>)</b>						
<b>16 AWG (1.50 mm<sup>2</sup>)</b>							281203*	3	0.417	10.6	78	110	S1113
281603	3	0.319	8.1	29	66	S1111	281204*	4	0.454	11.5	104	148	S1113
281604	4	0.345	8.8	39	79	S1111	281205	5	0.497	12.6	129	181	S1116
281605	5	0.375	9.5	48	95	S1111	281207	7	0.573	14.6	181	324	S1121
281607	7	0.406	10.3	68	123	S1113	281209	9	0.665	16.9	233	359	S1121
281609	9	0.470	11.9	88	165	S1116	<b>10 AWG (6 mm<sup>2</sup>)</b>						
281612	12	0.557	14.1	116	214	S1121	281003*	3	0.492	12.5	117	194	S1116
281618	18	0.644	16.4	175	289	S1121	281004*	4	0.570	14.5	155	256	S1121
281619	19	0.644	16.4	184	293	S1121	281005	5	0.623	15.8	194	306	S1121
281625	25	0.733	18.6	242	311	S1129	281007	7	0.678	17.2	271	430	S1121
							281009	9	0.791	20.1	349	549	S1129

\* Cable meets UL Bus Drop Approval.

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Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (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>14 AWG (2.50 mm<sup>2</sup>)</b>						
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
<b>16 AWG (1.50 mm<sup>2</sup>)</b>							<b>12 AWG (4 mm<sup>2</sup>)</b>						
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	<b>10 AWG (6 mm<sup>2</sup>)</b>						
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. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.