ÖLFLEX® FD AUTO-X

Heavy duty continuous flex control cable

ÖLFLEX® FD AUTO-X is a flexible oil- and UV-resistant multi-conductor control cable designed for continuous flexing industrial applications. It has worldwide approvals, including UL Type TC-ER, CSA AWM, and CE. For bending cycles and operation parameters, see www.lappusa.com/cf-rating

Recommended applications

Cable tracks; power chains; gantry robots; pick and place units; conveyor systems; machine tools; continuous flexing applications

Approvals

Construction

Conductors: finely stranded bare copper

Insulation: PVC/nylon; dry lubricant

Jacket: specially formulated thermoplastic elastomer (TPE); black

Application advantage

- Meets Oil Res I/II
- Resistant to harsh environments for long service life
- Meets NFPA 79 machine wiring standard
- Available in number-coded blue or red conductors
- Round jacket for optimal seal with a SKINTOP® strain relief cable gland

Cable attributes page 648

OIL	OR-03	FLAME	FR-03
MOTION	CF-02	MECH.	MP-03

Complete the installation

SKINTOP® strain relief page 492

EPIC® connectors page 284

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CHAIN page 617

Technical data

Minimum bend radius:
- for continuous flexing: 10 x cable diameter

Temperature range:
- for continuous flexing: -5°C to +90°C
- for stationary use: -40°C to +105°C
- UL TC-ER: -25°C to +90°C

Nominal voltage:
- UL TC: 600V
- UL WTTC: 1000V

Test voltage: 2000V

Conductor stranding: Class M fine wire

Color code*:
- 3c: blue with white numbers, plus green/yellow ground
- 4c & higher (blue): no. 2 conductor is white/blue

* Optional colors for conductors are available upon request. Colors include red, orange, yellow, and black. Minimums may apply.

Approvals:

UL:	TC-ER per UL 1277 WTTC per UL 2277 AWM 20626
Attributes:	UL Oil Res I/II 75°C wet; 90°C dry -40°C cold bend; -25°C cold impact NFPA 79
NEC:	Class 1 Division 2 per NEC Articles 501, 336
Canada:	CSA AWM I/II A/B FT4 c(UL) CIC/TC FT4
Additional:	CE & RoHS

Part number	Number of conductors incl. ground	Nominal outer diameter in	Nominal outer diameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
18 AWG (1 mm²)						
251803XB	3	0.309	7.8	16	55	S2111
251805XB	5	0.358	9.1	26	85	S2111
251807XB	7	0.425	10.8	36	110	S2113
251811XB	11	0.489	12.4	58	145	S2116
251812XB	12	0.489	12.4	64	160	S2116
251825XB	25	0.720	18.3	134	322	S2129
251833XB	33	0.748	19.0	175	385	S2129
251842XB	42	0.908	23.1	222	495	S2129
251849XB	49	0.942	23.9	259	595	S2129
251865XB	65	1.075	27.3	343	860	S2136

Part number	Number of conductors incl. ground	Nominal outer diameter in	Nominal outer diameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
16 AWG (1.5 mm²)						
251603XB	3	0.335	8.5	26	71	S2111
251607XB	7	0.464	11.8	58	126	S2116
251611XB	11	0.569	14.5	94	203	S2121
251612XB	12	0.569	14.5	103	218	S2121
251619XB	19	0.698	17.7	162	284	S2129
251625XB	25	0.798	20.3	213	397	S2129
251633XB	33	0.877	22.3	280	509	S2129
251642XB	42	0.977	24.8	381	628	S2136
251649XB	49	1.043	26.5	418	760	S2136
251665XB	65	1.191	30.3	547	890	S2136

Replace the 'B' at the end of the part number with 'R' for red conductors, 'O' for orange conductors, 'Y' for yellow conductors, 'BK' for black conductors

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.
Photographs are not to scale and are not true representations of the products in question.