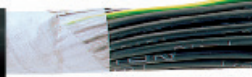


ÖLFLEX® CHAIN TM/TM CY

Continuous flex control cable with TC-ER rating



LAPP KABEL STUTTGART ÖLFLEX® CHAIN TM



LAPP KABEL STUTTGART ÖLFLEX® CHAIN TM CY



ÖLFLEX® CHAIN TM/TM CY are highly flexible multi conductor tray cables designed for continuous flex applications. ÖLFLEX® CHAIN TM CY has an overall tinned copper braid that provides protection against EMI and RFI. Fine stranding and a specially formulated thermoplastic polymer optimize flex life and provide excellent resistance to mineral oils, synthetic oils, and water-based coolants.

Recommended applications

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

Approvals



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
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ÖLFLEX® CONNECT solution



ÖLFLEX® CONNECT CHAIN
page 617

Unshielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated PVC/nylon; non-woven wrapping over outer layer

Jacket: specially formulated thermoplastic polymer; black

Shielded construction

Conductors: finely stranded bare copper

Insulation: specially formulated PVC/nylon; non-woven wrapping over outer layer

Shielding: tinned copper braid (85% coverage)

Jacket: specially formulated thermoplastic polymer; black

Application advantage

- UL TC-ER reduces material costs, as no conduit is needed
- Multi-standard approval reduces part numbers and cost
- Meets UL Oil Res I/II, resistant to harsh environments for a long service life
- Copper shielding complies with EMC requirements
- Resistant to a wide range of disinfecting solutions used in the food, beverage, chemical and related industries, according to ECOLAB® PM 40-1 test procedure

Technical data

Minimum bend radius:
- for continuous flexing: 7.5 x cable diameter
- shielded: 10 x cable diameter

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

Nominal voltage:
- UL/CSA TC: 600V
- UL AWM: 1000V
- IEC U₀/U: 300/500V

Test voltage: 2000V

Conductor stranding: Class 6 super fine wire

Color code: black with white numbers, plus green/yellow ground

Approvals:

UL: TC-ER per UL 1277
MTW per UL 1063
WTTTC per UL 2277
submersible pump
PLTC-ER per UL 13
ITC-ER per UL 2250
DP-1 per UL 1690
AWM 20886

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: CE & RoHS

*UL Verified ID A522492: Continuous Flex Test Method Verified

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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® CHAIN 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)						
8718030	3	0.308	7.8	20	44	S1111
8718040	4	0.337	8.6	26	55	S1111
8718050	5	0.365	9.3	33	64	S1111
8718070	7	0.423	10.7	46	84	S1113
8718120	12	0.486	12.3	79	141	S1116
8718180	18	0.606	15.4	118	207	S1121
8718250	25	0.699	17.8	164	278	S1129
16 AWG (1.5 mm²)						
8716030	3	0.340	8.6	29	62	S1111
8716040	4	0.373	9.5	39	75	S1111
8716050	5	0.405	10.3	49	90	S1113
8716070	7	0.473	12.0	68	121	S1116
8716120	12	0.580	14.7	112	209	S1121
8716180	18	0.679	17.2	175	298	S1121
8716250	25	0.786	20.0	242	417	S1129

Part number	Number of conductors incl. ground	Nominal outer diameter in mm		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
14 AWG (2.5 mm²)						
8714040	4	0.419	10.6	65	121	S1113
8714070	7	0.570	14.5	113	192	S1121
12 AWG (4 mm²)						
8712040	4	0.487	12.4	104	198	S1116
10 AWG (6 mm²)						
8710040	4	0.600	15.2	155	267	S1121

ÖLFLEX® CHAIN 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)						
8718030S	3	0.330	8.4	40	82	53112220
8718040S	4	0.359	9.1	48	106	53112220
8718050S	5	0.392	10	57	123	53112230
8718070S	7	0.450	11.4	94	139	53112240
8718120S	12	0.547	13.9	153	229	53112250
8718180S	18	0.633	16.1	216	317	53112250
8718250S	25	0.734	18.6	226	436	53112260
16 AWG (1.5 mm²)						
8716030S	3	0.362	9.2	52	115	53112220
8716040S	4	0.400	10.2	66	128	53112230
8716050S	5	0.432	11	76	150	53112230
8716070S	7	0.500	12.7	98	181	53112240
8716120S	12	0.607	15.4	167	311	53112250
8716180S	18	0.714	18.1	235	456	53112260
8716250S	25	0.870	22.1	313	639	53112260

Part number	Number of conductors incl. ground	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
		in	mm			
14 AWG (2.5 mm²)						
8714040S	4	0.447	11.4	93	181	53112240
8714070S	7	0.597	15.2	147	282	53112250
12 AWG (4 mm²)						
8712040S	4	0.515	13.1	154	311	53112240
10 AWG (6 mm²)						
8710040S	4	0.635	16.1	208	386	53112250

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