



ÖLFLEX® SERVO 7TCE

Multi-listed, flexible servo cable with optional pairs for brake and temperature sensor

i Info

- Servo motor and drive connections
- Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery
- EMC-compliant



Benefits

- One common cable for multiple circuits
- Multi-standard certification reduces part varieties and saves costs
- Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)
- Longer cable connection possible between frequency converter and motor due to low capacitance design
- UL TC-ER and c(UL) CIC/TC approved

Application range

- Connecting cable between servo controller and motor
- For fixed installation or applications with occasional movements
- Class 1 Division 2 per NEC Articles 336, 501
- Plant engineering
- Industrial machinery and machine tools

Product features

- Oil-resistant according to UL OIL RES I & II
- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test
- -40°C Cold Bend; -25°C Cold Impact
- Sunlight Resistant; Direct Burial

Norm references / Approvals

- UL TC-ER (exposed run) per UL 1277
- Class 1 Division 2 per NEC Articles 336, 501
- Flexible Motor Supply Cable per UL
- c(UL) CIC/TC FT4; cRU AWM I/II A/B FT4

Product Make-up

- Fine-wire, bare copper conductor
- Core insulation: XLPE
- Individual design depending on the item: power cores without or with one or two individually screened control core pairs twisted together in short lay lengths
- Tinned-copper braiding
- Outer sheath: Specially formulated thermoplastic elastomer (TPE), orange

Technical data

Core identification code
Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor
Optional designs with one pair of control cores: black; white
Two pairs of control cores: black with white numbers: 5, 6, 7, 8

Certifications
USA: UL TC-ER, Flexible Motor Supply
Canada: c(UL) CIC/TC FT4, cRU AWM I/II A/B FT4

Conductor stranding
Fine wire

Minimum bending radius
Occasional flexing: 15 x outer diameter
Fixed installation: 6 x outer diameter

Nominal voltage
UL TC: 600V
UL Flexible Motor Supply: 1000V
c(UL) CIC/TC: 600V
cRU AWM: 1000V
IEC U0/U: 600/1000 V

Test voltage
2000 V

Protective conductor
G = with GN-YE protective conductor

Temperature range
Occasional flexing: -25°C to +90°C
Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO 7TCE				
700730	4 G 1,5	9.8	88	143
700731	4 G 2,5	11.0	132	199
700732	4 G 4	12.8	199	286
700733	4 G 6	14.1	281	373
700734	4 G 1,5 + (2 x 1,5)	12.6	147	240
700735	4 G 2,5 + (2 x 1,5)	13.3	191	301
700736	4 G 4 + (2 x 1,5)	15.8	259	432
700737	4 G 6 + (2 x 1,5)	17.0	354	496
700738	4 G 1,0 + 2 x (2 x 1,0)	13.2	167	277
700739	4 G 1,5 + 2 x (2 x 1,0)	13.9	188	314
700740	4 G 2,5 + 2 x (2 x 1,0)	15.5	229	387
700741	4 G 4 + (2 x 1,0) + (2 x 1,5)	17.0	326	487
700742	4 G 6 + (2 x 1,0) + (2 x 1,5)	18.1	409	574

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 610 m drum or 8 x 76 m coils).
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® SERVO 719 CY refer to page 100
- ÖLFLEX® TRAY II CY refer to page 58

Accessories

- SKINTOP® BRUSH ADD-ON refer to page 700
- SKINTOP® MS-SC-M refer to page 701
- SKINTOP® MS-M BRUSH refer to page 702