1020010

DATA SHEET



ÖLFLEX[®] SERVO 719 CY



Application

ÖLFLEX[®] SERVO 719 CY cables are low capacitance, screened servo motor cables, designed for the European, North American and Canadian market, for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others designed for use in dry, damp and wet areas.

Outdoor use: They may only be installed with UV protection and considering the temperature range. At room temperature they are widely resistant against acids, caustic solutions and certain oils.

They are suitable for non-continuously recurring movement without tensile load. Continuous operational movements, restricted guidance, usage of these cables in moving cable carriers or on motor drum guidance or under a strain of more than 15 N/mm² are not allowed. The screen is a protection against electrical interference, the data pairs are additionally screened.

Application range:

Design

Connecting cable between frequency converter and motor, connecting cable between servo controller and motor, plant engineering, machine tools and printing units.

Use acc. to UL: PVC sheathed cables for external interconnection or internal wiring of electronic equipment. Use acc. to CSA: I A/B and II A/B. Cables for internal wiring or external interconnection with or without mechanical abuse

| Design | acc. to UL AWM Style 2570 and based on EN 50525-2-51 | | |
|----------------------------|---|---|--|
| Certification | UL AWM Style 2570; UL 758, (File No. E63634) cRU AWM I A/B II A/B (File No. E63634) | | |
| Conductor | fine wire strands of bare copper acc. to IEC 60228 resp. EN 60228, Class 5 0.34mm ² : 19x0.15 | | |
| Insulation | Polypropylen- based compound | | |
| Core identification code | Power cores: black cores with white alphanumeric labelling U/L1/C/L+; V/L2; W/L3/D/L- with GN/YE ground conductor | | |
| | Control cores: with 1 control pair: white; black | | |
| | white; brown for following art.: 1020 | 041; 1020042; 1020043; 1047;1020048; 1020049; 1020050 | |
| | with 2 control pairs: 0.34 mm ² : DIN 47100 (WH; BN; GN > 0.75 mm ² : black cores with white Control pairs with different conduct 1 mm ² : black cores with white nu 1.5 mm ² : black cores with white nu | numbers 5-8 acc. to EN 50334 or cross-sections: mbers 5-6 | |
| | Triplet: black cores with white numbers 1-3 acc. to EN 50334 | | |
| Stranding | 4 power cores (optionally with 1 resp. 2 signal pairs, triplet) stranded together (optionally with filler) | | |
| Screen | Pair shield /triplet shield: with 1 control pair: braid of tinned copper wires, coverage = 85% (nominal value) For art. no.: 1020041; 1020042; 1020043; 1020047; 1020048; 1020049; 1020050: aluminium-laminated foil, drain wire, braid of tinned copper wires, coverage = 85% (nominal value) with 2 control pairs + triplet: Aluminium-laminated foil, drain wire, braid of tinned copper wires, coverage = 85% (nominal value) | | |
| | | | |
| | Overal screen: braid of tinned copper wires, coverage = | 85% (nominal value) | |
| Outer sheath | PVC- based compound (UL/CSA 80° C rating) Colour: orange, similar RAL 2003 | | |
| Electrical properties at 2 | D°C | | |
| Transfer impedance | at 30 MHz: max. 250 m Ω/m acc. to DIN EN 50525-2-5 | | |
| Nominal voltage | VDE U₀/U: 600/1000 V UL/CSA: 1000 V | | |
| Test voltage | Core/Core: 4000 V AC Core/Screen: 4000 V AC Pairscreen /overal screen: 500 V AC | | |
| Creator: HESC / PDC | Document: DB1020010EN | | |
| Released: ALTE / PDC | Version: 05 | Page 1 of 2 | |

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valid from: 26.03.2021

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Mechanical and thermal properties

| Minimum bending radius | occasional flexing: fixed installation: | 15 x outer diameter 6 x outer diameter | |
|---------------------------|---|--|--|
| Temperature range | occasional flexing (EN): occasional flexing (UL/CSA): fixed installation (EN): fixed installation(UL/CSA): | -5 °C up to +70 °C max. conductor temp. -5 °C up to +80 °C max. conductor temp. -40 °C up to +80 °C max. conductor temp. up to +80 °C max. conductor temp. | |
| Flammability | flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: Vertical flame test VW-1 acc. to UL 1581, Section 1080 CSA: FT1 acc. to CSA C22.2 No. 2556 § 9.3 | | |
| Oil resistance | acc. to EN 50290-2-22, TM54 | | |
| Tests | acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396, UL 1581 and CSA C22.2 | | |
| General requirements | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) | | |
| Environmental information | These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS). | | |