1020010 DATA SHEET

valid from: 01.01.2019

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:

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 cRU: I A/B and II A/B. Cables for internal wiring or external interconnection with or without mechanical abuse

Design

Design according to UL AWM Style 2570 and based on DIN EN 50525-2-51 resp. VDE 0285-2-51

Certification UL AWM 758, Style 2570 (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. VDE 0295, Class 5

0.34mm²: 19x0.15

Insulation Polypropylen- based compound

Core identification code Power cores:

with 1 control pair: white; black

white; brown for following art.: 1020041; 1020042; 1020043;

1020047;1020048; 1020049; 1020050

with 2 control pairs: 0.34 mm²: DIN 47100 (WH; BN; GN; YE)

> 0.75 mm²: black cores with white numbers 5-8 acc. to EN 50334

Control pairs with different conductor cross-sections: 1 mm²: black cores with white numbers 5-6 1.5 mm²: black cores with white numbers 7-8

Triplet: black cores with white numbers 1-3 acc. to EN 50334 (VDE 0293-334)

Pair shield /triplet shield:

with 1 control pair: Braid of tinned copper wires, coverage = 85% (nominal value)

For art. 1020053; 1020054; 1020055; 1020056; 1020057;

1020058: 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)

Stranding 4 power cores (optionally with 1 resp. 2 signal pairs, triplet) stranded together (optionally with filler)

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 20°C

Transfer impedance at 30 MHz: max. 250 mΩ/m acc. to DIN EN 50525-2-51 resp. VDE 0285-2-51

Rated 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

Mechanical and thermal properties

Minimum bending radius occasional flexing: 15 x outer diameter

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fixed installation: 6 x outer diameter

Temperature range occasional flexing (VDE): -5 °C up to +70 °C max. conductor temp.

occasional flexing (UL/CSA): -5 °C up to +80 °C max. conductor temp. fixed installation (VDE): -40 °C up to +80 °C max. conductor temp. fixed installation(UL/CSA): up to +80 °C max. conductor temp.

Flammability flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2

UL: Vertical flame test VW-1

CSA: FT1

Oil resistance acc. to EN 50290-2-22 resp. VDE 0819-102, TM54

Tests acc. to IEC 60811 resp. VDE 0473 part 811, VDE 0472, 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)

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