

ÖLFLEX® SERVO 720 CY

DB 0036170

valid from: 2013-02-01

Application

ÖLFLEX® SERVO 720 CY cables are screened sensor leads for servo motors. They are among others designed for use in dry, humid and wet conditions. Outdoor use: They may only be installed with UV protection and considering the temperature range. At room temperature they are widely resistant to acids, caustic solutions and certain oils. Continuous operational movements, restricted guidance, usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. The screen (0 036 170 with drain wire) is a protection against electrical interference.

Application range:

analogue and incremental encoders in servo drives, as well as for measurement, control and electrical application

Design

Design	based on DIN EN 50525-1 resp. VDE 0285-525-1 and DIN VDE 0812 +A1
Conductor	fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	PVC compound TI2 acc. to EN 50363-3 resp. VDE 0207-363-3
Core identification	coloured, see p. 2
Screening	braid of tinned copper wires, coverage = 85 % (nominal value)
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage (not for power current application)	48 V AC
Peak working voltage	350 V U _{SS}
Test voltage	C/C: 2000 V AC C/S: 1000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: 20 x cable diameter fixed installation: 6 x cable diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811 resp. VDE 0473 part 811 and VDE 0472
EC -Directives	These cables are conform to the EC-Directives 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). As this product is designed for appropriate use in a voltage range of < 50 V AC resp. < 75 V DC, it is not subject to the Low Voltage Directive 2006/95/EC. Thus the CE marking is not applicable.

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Core-Identification-Code for ÖLFLEX® SERVO 720 CY**0 036 170** Dimension: **4 x 2 x 0,25 + 2 x 1**

Pairs: 0,25: RD/BK, BN/GN, GY/PK, BU/VT

Cores: 1,0: WH/BN

Drain wire under braiding

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)

0 036 175 Dimension: **10 x 0,14 + 2 x 0,5**

Cores: 0,14: WH, BN, GN, YE, GY, PK, BU, RD, BK, VT

Cores: 0,5: WH/BN

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)

0 036 177 Dimension: **10 x 0,14 + 4 x 0,5**

Cores: 0,14: WH, BN, GN, YE, GY, PK, BU, RD, BK, VT

Cores: 0,5: WH, BN, BU, BK

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)

0 036 178 Dimension: **15 x 0,14 + 4 x 0,5**Cores: 0,14: GY, PK, BU, RD, BK, VT, GY-PK, RD-BU, WH-GN, BN-GN,
WH-YE, YE-BN, WH-GY, GY-BN, WH-PK (acc. to DIN 47100);

Cores: 0,5: WH, BN, GN, YE

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)

0 036 181 Dimension: **4 x 2 x 0,14 + 4 x 0,5**

Pairs: 0,14: RD/BK, BN/GN, YE/VT, GY/PK

Cores: 0,5: WH, BU, WHGN, BNGN

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)

0 036 168 Dimension: **3 x (2 x 0,14) + 2 x (0,5)**

Pairs: 0,14: GN/YE, RD/BU, GY/PK

Pair shield: Spiral/wrap made of tinned copper wire

Over wrapping PVC-sheath, colour: Grey, ~ RAL 7001

Cores: 0,5: WH, BN

Core shield: Spiral/wrap made of tinned copper wire

Over wrapping PVC-sheath, colour: Grey, ~ RAL 7001

Overall screen: Tinned copper braid, coverage = 85 % (nominal value)