



DATA SHEET	0036270
ÖLFLEX® SERVO FD 770 CP	valid from : 01.04.2008

Application

ÖLFLEX® SERVO FD 760 CP cables are high flexible feedback cables/sensor leads for resolvers, encoders and rotor position sensors for the control of servo motors. They are among others for use in dry, damp or wet rooms. Considering the indicated temperature range an outdoor use is possible. ÖLFLEX® SERVO FD 760 CP cables are increased oil resistant and at room temperature generally resistant against acids and caustic solutions. The outer sheath of Polyurethane is resistant against high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are special for use in power chains, automatic manipulators and in permanently moved machine parts. Usage on motor drum guidance or under a strain of more than 15 N / mm² is not allowed. The screen is a protection against electrical interference. ÖLFLEX® SERVO FD 760 CP cables are not for heavy current and so they don't confirm to ECD 2006/95/EC (low voltage directive).

Design

Design	in support to VDE 0812, VDE 0281 and VDE 0282
Conductor	superfine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, superior to class 5
Core insulation	TPE (Thermoplastic Elastomer)
Core identification	coloured, Core identification code see summary page 2
Screen	braid of tinned copper , coverage = 85 % (nominal value)
Outer sheath	Polyurethane compound TPU acc. to HD 22.10 S2 resp. VDE 0282-10, additional halogen free

Electrical properties at 20 °C

Nominal voltage	48 V AC
Operating peak voltage	350 V U _{ss}
Test voltage	A-A: 2000 V AC A-S: 1000 V AC

Mechanical and thermal properties

Temperature range	for flex. applications -40 °C up to +80 °C max. conductor temperature fixed installation -50 °C up to +80 °C max. conductor temperature
Min. bending radius	4 x cable diameter for fixed installation 12 x cable diameter for flex. applications
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x and VDE 0472

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Core identification code ÖLFLEX® SERVO FD 770 CP

- 0036 268 dimension: **3 x (2 x 0,14) D12Y + 2 x (0,5 D12Y)**
pairs: 0,14: GN/YE, RD/BU, GY/PK
cores: 0,5: WH, BN
- 0036 269 dimension: **3 x (2 x 0,14) D12Y + (2 x 0,14 + 2 x 0,5) + (4 x 0,22 + 2 x 0,14)**
pairs: 0,14: GN/YE, RD/OG, BN/BK
cores: 0,14: GY, BU 0,5: BN-RD, BN-BU 0,22: BN-YE, GN-RD, GN-BK, BN-GY
0,14: WH-BK, WH-YE
- 0036 270** dimension: **4 x (2 x 0,25) + 2 x 1,0**
pairs: 0,25: RD/BK, BN/GN, GY/PK, BU/VT
cores: 1,0: WH, BN
- 0036 275 dimension: **10 x 0,14 + 2 x 0,5**
cores: 0,14: WH, BN, GN, YE, GY, PK, BU, RD, BK, VT GN, YE, GY, PK, BU, RD, BK, VT
pairs: 0,5: WH/BN
- 0036 277 dimension: **10 x 0,14 + 4 x 0,5**
cores: 0,14: WH, BN, GN, YE, GY, PK, BU, RD, BK, VT 0,5: WH, BN, BU, BK
- 0036 278 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);
0,5: WH, BN, GN, YE
- 0036 280 dimension: **6 x (2 x 0,25) + 2 x 0,5**
pairs: 0,25: WH/BN, GN/YE, GY/PK, BU/RD, BK/VT, GY-PK/RD-BU
cores: 0,5: WH, BN
- 0036 281 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, WH-GN, BN-GN

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- 0036 640 dimension: **2 x (2 x 0,14) + 2 x (2 x 0,14) D + 4 x 0,5 + (4 x 0,14) D**
pairs: 0,14: BU/RD, GY/PK 0,14: GN/YE, WH/BN
cores: 0,5: WH, BN, GN, YE 0,14: WH, BN, GN, YE
- 0036 641 see above among 0036 269
- 0036 642 dimension: **4 x (2 x 0,38) + 4 x 0,5**
pairs: 0,38: BK/BN, RD/OG, GN/YE, BU/VT
cores: 0,5: BK-WH, BU-WH, RD-WH, YE-WH
- 0036 901 dimension: **4 x (2 x 0,25)**
pairs: 0,25: WH/BN, GN/YE, GY/PK, BU/RD

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