

ÖLFLEX® SERVO FD 750 P**DB 0036240****valid from: 2013-02-01****Application**

ÖLFLEX-SERVO-FD® 750 P cables are oil resistant supply cables for servo-motors. They are for use in dry, damp and wet rooms. Under following to the indicate temperature range is a use outside possible. Usage on motor drum guidance or under a strain of more than 15 N/mm² is not allowed.

ÖLFLEX-SERVO-FD® 750 P cables are increased oil resistant and at room temperature generally resistant against acids and caustics solution. The outer sheath of Polyurethane is resistant against high mechanical abuse, particularly to abrasion cuts, microbe-proof and hydrolysis resistant. The core pairs are provided for signaling and controlling purposes, like for example thermocouple and/or brake. In order to avoid any interference of the signals the pairs are screened in a double way, i.e by means of an aluminum-clad foil and a Cu braiding with supplementary drain wire.

Application range:

They are for use in power chains, automatic manipulators and in permanently moved machine parts.

Design

Design	based on DIN 57250-1 resp. VDE 0250-1 EN 50525-1 resp. VDE 0285-525-1 / HD 21.1 S4 resp. VDE 0281-1 EN 50525-2-51 res. VDE 0285-525-2-51 / HD 21.13 S1 + A1 resp. VDE 0281-13
Conductor	bare copper, fine wire strand, acc. to IEC 60228, resp. power conductors: acc. to IEC 60228-5 resp. VDE 0295, class 6, 0,5 mm ² and more signal pairs: acc. to IEC 60228-6 resp. VDE 0295, class 5
Core insulation	power conductors: PVC compound TI2 acc. to 50363-3 resp. VDE 0207-363-3 signal pairs: TPE
Core identification	acc. to VDE 0293-1, with GN/YE ground conductor supply cores: black cores with white numbers 1-3 acc. to DIN EN 50334 resp. VDE 0293-334 control cores: black cores with white numbers 5-8 acc. to DIN EN 50334 resp. VDE 0293-334, (numbering increases in line with cross section), except for pairs 0,34 mm ² (WH/BN/GN/YE)
Outer sheath	2-layer-design inner layer: PVC-compound TM2 acc. to VDE 0207-363-4-1 outer layer: PUR-compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	supply cores: 600/1000 V control cores: 250 V AC
Test voltage	supply cores: C / C: 4000 C control cores: C / C: 1500 V C / S: 750 V

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Mechanical and thermal properties

Min. bending radius	occasional flexing:	12 x outer diameter
	fixed installation:	4 x outer diameter
Temperature range	occasional flexing:	-10 °C up to +70°C max. conductor temperature
	fixed installation:	-40 °C up to +80 °C max. conductor temperature
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	
Oil resistance	outer layer acc. to EN 50363-10-2 resp. VDE 0207-363-10-2	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	