

## ÖLFLEX® SERVO FD 785 CP

DB 0036390

valid from: 16.11.2011

## Application

ÖLFLEX® SERVO FD 785 CP cables are high flexible, low-capacity supply cables with a very small bending radius for the control of servo motors. They are among others designed for use in dry, damp and wet rooms subject to normal mechanical load conditions. Outdoor use: They may only be installed considering the indicated temperature range.

ÖLFLEX® SERVO FD 785 CP cables are increased oil-resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath of Polyurethane is resistant against high mechanical stress, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. Usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm<sup>2</sup> conductor cross-section is not allowed. The screen is a protection against electrical interference. All materials used for these cables are halogen-free.

## Application range:

Power chains, automatic manipulators and in permanently moved machine parts, power circuits for electrical equipment in automation engineering, machine internal wiring of power circuits.

## Design

Design	based on HD 21.13 S1 resp. VDE 0281-13 and HD 22.10 S2 resp. VDE 0282-10
Conductor	superfine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	TPE (Thermoplastic Elastomer)
Core identification	acc. to VDE 0293-1, with GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Screen	braid of tinned copper wires, coverage = 85 % (nominal value)
Outer sheath	Polyurethane compound TPU in acc. with HD 22.10 S2 resp. VDE 0282-10 Colour: Grey, similar RAL 7001 DESINA® design: Orange, similar RAL 2003

## Electrical properties at 20 °C

Nominal voltage	600 / 1000 V
Test voltage	4000 V AC

## Mechanical and thermal properties

Min. bending radius	flexing: 7,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	flexing: -40 °C up to +80 °C max. conductor temperature fixed installation: -50 °C up to +90 °C max. conductor temperature
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD	MUD resistant acc. to IEC 61892-4 Annex D
Halogen-free	acc. to IEC 60754-1 resp. VDE 0472 part 815
Tests	acc. to IEC 60811 resp. VDE 0473 and VDE 0472
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and ECD 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).