

DATA SHEET

0028110

ÖLFLEX® ROBOT 900 P

valid from : 21.07.2008

Application

ÖLFLEX® ROBOT 900 P is a special cable for torsion and bending stresses, e.g. for connecting handling tools to assembly and welding robots, to manipulators as well as for connecting to rotating or tilting tables. They can be used for the transmission of control and monitoring signals or as supply cables. They are among others for use in dry, damp or wet rooms. They may only be installed outdoors in observation of the appropriate temperature range. Usage on motor drum guidance or under a strain of more than 15 N / mm² is not allowed.

ÖLFLEX® ROBOT 900 P 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.

Design

Design in support to HD 21.5 S3 resp. VDE 0281-5,

in support to HD 21.13 S1 resp. VDE 0281-13, VDE 0812

Conductor fine or superfine wire strands of bare copper

acc. to IEC 60228 resp. VDE 0295, class 5 or class 6

Core insulation TPE (Thermoplastic Elastomer)

Core identification up to 0,34 mm²: in acc. to DIN 47100

starting at 0,50 mm²:acc. to VDE 0293-1, with or without gn/ye ground conductor

black cores with white numbers

acc. to DIN EN 50334 resp. VDE 0293 part 334

Outer sheath Polyurethane compound TMPU acc. to HD 22.10 S2 resp. VDE 0282-10,

additional flame retardant

Electrical properties at 20 °C

Nominal voltage up to 0,34 mm²: 48 V AC

starting at 0,50 mm²:300 / 500 V

Peak working voltage up to 0,34 mm²: 350 V (not for high-power current purposes)

Test voltage up to 0,34 mm²: 1500 V AC

starting at 0,50 mm²:3000 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

Max. angle of torsion +/- 360 % meter

Min. bending radius 4 x cable diameter for fixed installation

15 x cable diameter for flex. applications

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

Oil resistance acc. to IEC 60811-2-1 resp. VDE 0473 part 811-2-1

Tests acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x and VDE 0472

EC directive this cable confirms to ECD 2006/95/EC (low voltage directive).

created by: R. Krämer / TE-K released: M. Herb / TE-K Document: DB0028110EN page 1 of 1