DATA SHEET	0012345
ÖLFLEX® 500 P	valid from : 20.07.2009

Application

ÖLFLEX® 500 P cables are highly flexible oil-resistant connecting cables with an insulation of Polyurethane and an outer sheath of Polyurethane for flexible use and fixed installation under increased mechanical load conditions. They are designed for use in dry, damp and wet conditions. Outdoor use: They may only be installed considering the temperature range.
Continuous busy movements, compulsory guidance respectively usage on cable drums or pulleys or under a strain of more than 15 N / mm² are not allowed. At room temperature they are widely resistant to certain oils and resistant to acids. The outer sheath of Polyurethane is resistant to high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant.
All materials used for these cables are halogen-free.

Design

Design	based on HD 21.5 S3 resp. VDE 0281-5
Conductor	superfine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	Polyurethane compound
Core identification	coloured acc. to HD 308 S2 resp. VDE 0293-308
Outer sheath	Polyurethane compound TMPU in acc. to HD 22.10 S2 resp. VDE 0282-10 colour: Orange MUD resistant acc. to IEC 61892-4 Annex D

Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	3000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: fixed installation:	15 x cable diameter 4 x cable diameter
Temperature range	occasional flexing: fixed installation:	-40 °C up to +80 °C max. conductor temperature -50 °C up to +80 °C max. conductor temperature
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 resp. VDE 0473 and VDE 0472	
EC directive	This cable is conform to ECD 2006/95/EC (Low Voltage Directive).	