

0012345	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® 500 P	

Application

ÖLFLEX® 500 P cables are extra-flexible oil-resistant connecting cables with PUR outer sheath for flexible use and fixed installation under increased mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are suitable for constant use in fresh water to a depth of 10 m and at a maximum water temperature of 40°C according to EN 50565-2.

They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

They are increased resistant to oils and at room temperature largely resistant to acids and alkalis. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis.

All materials used are halogen-free.

Application range:

Electric operated portables, connection, extension cables, machine tools and submersible pumps.

Design

Design	based on standard EN 50525-2-21 bzw. VDE 0285-525-2-21 EN 50525-2-51 bzw. VDE 0285-525-2-51
Conductor	superfine wire strands of bare copper wires in accordance with IEC 60228 resp. VDE 0295, Class 6
Insulation	Thermoplastic elastomer (TPE)
Core identification code	according to VDE 0293-1, with or without GN/YE ground conductor coloured acc. to HD 308 S2 resp. VDE 0293-308
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 Colour: Orange, similar RAL 2003

Electrical properties at 20°C

Specific volume resistivity	> 20 G Ω x cm
Rated voltage	300 / 500 V
Test voltage	3000 V AC

Mechanical and thermal properties

Minimum bending radius	Flexing: 10 x cable Ø Fixed installation: 4 x cable Ø
Temperature range	Flexing: - 40 °C up to +80 °C Fixed installation: - 50 °C up to +80 °C
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Halogen free	acc. to VDE 0472-815
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD resistance	acc. to IEC 61892-4 Annex D
Water-resistance	acc. to EN 50525-2-21 resp. VDE 0285-525-2-21
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	This cable is conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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