Application

ÖLFLEX® 450 P cables are oil resistant PVC-PUR tube cables with an outer sheath of Polyurethane for flexible use and fixed installation for middle mechanical abuse. They are designed for use in dry, damp and wet areas. They are suitable for outdoor use if the indicated temperature range is observed. 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.
These cables are increased oil-resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant to high mechanical stress, particularly to abrasion and scouring, it is cut resistant, microbe-proof and hydrolysis resistant.

Application range:
electric operated portables, connection and extension cables.

Design

Design	based on EN 50525-2-21 resp. VDE 0285-525-2-21 EN 50525-2-51 resp. VDE 0285-525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	PVC compound TI2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1
Core identification code	acc. to VDE 0293-308
Inner sheath	PVC compound TM2 resp. VDE 0285-525-1 colour: red, similar RAL 3000
Outer sheath	PUR compound TMPU acc. to EN 50525-2-21 resp. VDE 0285-525-2-21 colour: yellow, similar RAL 1016

Electrical properties at 20°C

Rated voltage	U_0 / U: 300 / 500 V
Test voltage	core / core: 3000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: - 5 °C up to +70 °C max. conductor temp. fixed installation: - 40 °C up to +80 °C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)