


0013600	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>ÖLFLEX® 550 P</b>	

## Application

ÖLFLEX® 550 P cables are high flexible oil-resistant power cables with an isolation of a compound of rubber and an outer sheath of Polyurethane for flexible use and fixed installation for increased mechanical abuse. They are 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/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted. ÖLFLEX® 550 P cables are increased oil resistant and at room temperature generally resistant against acids and caustics solution. The outer sheath is resistant against high mechanical abuse, particularly to abrasion and grinding abuse. ÖLFLEX® 550 P cables are resistant against cuts, microbe proof and hydrolysis resistant.

Application range:

as power cable for construction machinery, stage applications as well as for portable handheld electrical devices

## Design

Certification	<p>≤ 1.0 mm<sup>2</sup>: H05BQ-F acc. to EN 50525-2-21 resp. VDE 0285-525-2-21</p> <p>≥ 1.5 mm<sup>2</sup>: H07BQ-F acc. to EN 50525-2-21 resp. VDE 0285-525-2-21</p>
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	rubber compound EI 6 acc. to EN 50363-1 resp. VDE 0207-363-1
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cored coloured acc. to HD 308 S2 that is VDE 0293-308
Outer sheath	Polyurethane compound TMPU, acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 Colour: orange, similar to RAL 2003

## Electrical properties at 20°C

Rated voltage	≤ 1,0 mm <sup>2</sup>	U <sub>0</sub> /U: 300 / 500 V
	≥ 1,5 mm <sup>2</sup>	U <sub>0</sub> /U: 450 / 750 V
Test voltage	core / core: 3000 V AC	

## Mechanical and thermal properties

Minimum bending radius	<p>for flexible use: 12,5 x outer diameter</p> <p>fixed installation: 4 x outer diameter</p>
Temperature range	<p>for flexible use: -40 °C up to +90 °C</p> <p>fixed installation: -50 °C up to +90 °C</p>
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
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)

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