

ÖLFLEX[®] 540 P

DB 0012452

valid from: 2014-03-18

Application

ÖLFLEX[®] 540 P cables are oil-resistant connecting cables with an insulation of TPE and an outer sheath of Polyurethane for flexible use and fixed installation under increased mechanical load conditions. They are among others designed for use in dry, damp and wet conditions. Outdoor use: They may only be installed considering the indicated temperature range.

Continuous busy movements, compulsory guidance respectively usage on cable drums or pulleys or under a tensile strain of more than 15 N/mm² conductor cross-section are not allowed. ÖLFLEX[®] 540 P 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, is cut resistant, microbe-proof and hydrolysis resistant. All materials used for these cables are halogen-free.

Application range:

construction machinery, building sites, camping sites, stage application, agricultural equipment, industrial machinery

Design

Design	based on EN 50525-2-21 resp. VDE 0285-525-2-21 / HD 22.10 S2 resp. VDE 0282-10	
Approvals	up to 1,0 mm ² :	VDE Reg.-No. 6583
	starting at 1,5 mm ² :	VDE Reg.-No. 6584
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. VDE 0295, Class 5	
Core insulation	Thermoplastic elastomer (TPE)	
Core identification	up to 5 cores coloured acc. VDE 0293-308 resp. HD 308 S2 more than 5 cores: black cores with white numbers with GN/YE ground conductor acc. to DIN EN 50334 resp. VDE 0293-334	
Outer sheath	Polyurethane compound TPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 colour: yellow, similar RAL 1016	

Electrical properties

Nominal voltage	up to 1,0 mm ² :	U ₀ / U 300 / 500 V
	starting at 1,5 mm ² :	U ₀ / U 450 / 750 V
Test voltage	up to 1,0 mm ² :	3000 V AC
	starting at 1,5 mm ² :	3500 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing:	10 x outer diameter
	fixed installation:	4 x outer diameter
Temperature range	occasional flexing:	-40 °C up to +90 °C max. conductor temperature
	fixed installation:	-50 °C up to +90 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2	

Halogen-free acc. to. VDE 0472-8 15

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UV-resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed)
MUD	MUD resistant acc. to IEC 61892-4 Annex D
Tests	acc. to IEC 60811, EN 50395, EN 50396
EC-Directives	These cables are conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).