



ÖLFLEX® 540 CP

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Application

ÖLFLEX® 540 CP cables are highly flexible oil-resistant connecting cables with a core insulation of TPE 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 against high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. All materials used for these cables are halogen-free. The screen is a protection against electrical interference.

Application range: Agricultural equipment, power tools like drill machines, circular hand saw, portable motors and construction machinery as well.

Design

Design	based on 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. to HD 308 S2 resp. VDE 0293-308	
	more than 5 cores: Black cores with white numbers	
	with GN/YE ground conductor acc. to DIN EN 50334 resp. VDE 0293-334	
Inner sheath	Thermoplastic elastomer (TPE)	
Screen	braid of tinned copper, coverage = 85% (nominal value)	
Outer sheath	Polyurethane compound TMPU in acc. to HD 22.10 S2 resp. VDE 0282-10 colour: Yellow	

Electrical properties at 20 °C

Nominal voltage	up to 1,0 mm ² :	300 / 500 V
	starting at 1,5 mm ² :	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:	12,5 x cable diameter
	fixed installation:	6 x cable 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 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	
MUD	MUD resistant acc. to IEC 61892-4 Annex D	
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).	