

ÖLFLEX® CLASSIC 100 yellow

DB 0010400
valid from: 15.11.2012

Application

ÖLFLEX® CLASSIC 100 yellow cables are PVC connecting cables for flexible use and fixed installation for medium mechanical use for special warning feature in accordance to VDE 0113 part 1 that is EN 60204 part 1. They are for use in dry, damp or wet rooms. They may only be installed outdoors with UV-protection and in observation of the temperature range. At room temperature they are generally resistant against acids, caustics solutions and certain oils. Suitable for freely moved without forced guidance and tensile stress.

This cable is suitable for torsion application in wind turbines (WTG). The torsional load is limited to applications, as they typically occur in the loop of a wind turbine.

Design

Design	in accordance to HD 21.13S1 that is VDE 0281-13
Conductor	bare copper, fine wire strand in accordance to IEC 60 228 that is VDE 0295, class 5
Core insulation	LAPP special PVC-compound P 8/1, better than the PVC compound TI2 in accordance to VDE 0207 part 4
Identification	colored-coded in acc. to HD 186 resp. VDE 0293 or HD 308S2 that is VDE 0293-308 with green/yellow ground conductor
Outer sheath	PVC-compound TM2 in acc. to VDE 0207 part 5 with increased requests to LAPP specification
Outer sheath color	yellow (RAL 1016)

Electrical properties

Nominal voltage	450 / 750 V
Test voltage	4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: 15 x cable diameter Fixed installation: 4 x cable diameter
Temperature range	for flexible use -5 up to +70° C max. conductor temperature fixed installation -30 up to +80° C max. conductor temperature
Torsion movement in WTG	TW-0 (5000 cycles at ≥ +5°C) TW-1 (2000 cycles at ≥ -20°C) ± 150 °/m at 1 revolution per minute
Flame retardant	in acc. to IEC 60 332.1 resp. VDE 0482 part 265-2-1
Tests	in acc. to VDE 0472 and IEC 811-x.x that is VDE 0473
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and ECD 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).