

## ÖLFLEX® CLASSIC 100 CY

DB 0035001

valid from: 2013-04-19

### Application

ÖLFLEX® CLASSIC 100 CY cables are power- and control cables for flexible use and fixed installation for medium mechanical use. They are for use in dry, damp and 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. ÖLFLEX® CLASSIC 100 CY is suitable for freely moved without forced guidance and tensile stress. The screen is a protection against electrical interference.

Application range:

ÖLFLEX® CLASSIC 100 CY cables are used as supply and flexible connecting cable in industrial machinery, in plant engineering and in power stations, in heating and air conditioning systems.

### Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51 / HD 21.13 S1 + A1 resp. VDE 0281-13
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	PVC compound TI2 acc. to EN 50363-3 resp. VDE 0207-363-3 with increased requirements to Lapp specification
Core identification	acc. to VDE 0293-1, with or without GN/YE protective conductor with up to 5 cores: acc. to 0293-308 / HD 308 S2 more than 5 cores: acc. to ÖLFLEX color code
Inner sheath	PVC compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-4-1 colour: silver grey, similar RAL 7001
Braid	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC compound TM2 in acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: transparent

### Electrical properties

Nominal voltage	up to 1,0 mm <sup>2</sup> :	U <sub>0</sub> / U	300 / 500 V
	from 1,5 mm <sup>2</sup> :	U <sub>0</sub> / U	450 / 750 V
	fixed and protected installation:	U <sub>0</sub> / U	600 / 1000 V
Test voltage	Core/Core:	4000 V AC	
	Core/Screen:	4000 V AC	

### Mechanical and thermal properties

Min. bending radius	occasional flexing:	20 x outer diameter
	fixed installation:	6 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	acc. to IEC 60 332.1 resp. VDE 0482-332-1-2	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	