11101500	DATA SHEET	LAPP
valid from: 28.01.2022	ÖLFLEX® DC GRID 100	

Application

ÖLFLEX® DC GRID 100 are cables with an insulation and outer sheathing of PVC. They are used for fixed installation in dry or damp areas as well as outdoors, underground and under water.

Application range: connection cable for electrical systems which are operated with direct voltage.

Design

Design	based on VDE 0276-603 and IEC TS 61200-1021
Conductor	bare copper, fine wire strand acc. to IEC 60228 resp. EN 60228, class 5, circular
Insulation	PVC compound DI4 acc. to VDE 0276-603
Core identification code	coloured cores, 3 cores: red; white; GNYE 4 cores: red; white; blue; GN/YE
Outer sheath	PVC compound DMV5 acc. to VDE 0276-603 colour: black, similar RAL 9005

Electrical properties at 20 °C

Specific volume resistivity	> 20 G Ω x cm
Nominal voltage	conductor – earth: 750 V DC conductor – conductor: 1500 V DC
Operating voltage	conductor – earth: max. 900 V DC conductor – conductor: max. 1800 V DC
Test voltage	core/core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	fixed installation: 12 x outer diameter
Temperature range	fixed installation: - 40˚C up to +70˚C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. To EN ISO 4892-2, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396, method B
Tests	acc. to EN 60811 resp. IEC 60811, VDE 0472, EN 50395 and EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

We reserve all rights according to DIN ISO 16016.