0046201	DATA SHEET	LAPP
valid from: 31.08.2020	ÖLFLEX® HEAT 180 GLS	

Application

ÖLFLEX® HEAT 180 GLS silicone tube cables provided with steel wire braiding are most suitable for use at high ambient temperatures and sufficient ventilation as well as average mechanical load. In the case of room temperature ÖLFLEX® HEAT 180 GLS is largely resistant against oils, alcohol, acids, alkalis, salt solution and salt water.

Design

Conductor	fine wire strand of tinned copper acc.to IEC 60228 resp. EN 60228, class 5
Insulation	silicone compound EI2 acc. to VDE 0207-363-1
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cores coloured in acc. to HD 308 S2 that is VDE 0293-308 starting at 6 cores: Black cores with white numbers acc. to EN 50334
Outer sheath	Silicone compound EM9 acc. to EN 50363-2-1 colour: flame red (similar RAL 3000) glass fibre yarn taping and zinc-plated steel wire, coverage >= 75 % (nominal value)

Electrical properties at 20°C

Nominal voltage	U_0/U: 300/500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x outer diameter fixed installation: 4 x outer diameter
Temperature range	-50 °C up to +180 °C max. conductor temperature pay attention to sufficient ventilation, if ignoring the max. conductor temperature is +100 °C.
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. EN 60332-1-2 after combustion a SiO2-ash skeleton remains, which has still good insulation properties but has no more any mechanical stability.
Halogen free	acc. to IEC 60754-1 resp. 60754-1
Corrosivity of gases	acc. to IEC 60754-2 resp. 60754-2
Tests	acc. to IEC 60811 resp. EN 60811, 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).