1235000	DATA SHEET	LAPP
valid from: 14.01.2025	ÖLFLEX® HEAT 125 SC 450/750 V	

Application

ÖLFLEX® HEAT 125 SC 450/750 V are heat resistant single cores, insulated with a cross-linked LSZH polyolefin copolymer compound with excellent fire characteristics and a wide temperature range. Typical applications are internal wiring of lamps, heating appliances, electric machines with insulation class B, switchboards and cabinets in apparatus, mechanical and plant engineering.
The product is approved by VDE and certified by DNV. These single cores are VDE-tested and according to this marked with ⊲VDE⊳.

Design

Design	acc. to EN 50525-3-41
Certification	H07Z-K ⊲VDE⊳: acc. to EN 50525-3-41 X07Z-K based on EN 50525-3-41 X07V-K: yellow, green and multi-coloured cores (except GN/YE) DNV Certificate No.: TAE00003NF EN 13501-6 and EN 50575 Classification of fire behaviour (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine wire strands of non-porous tinned copper acc. to IEC 60228 resp. EN IEC 60228, Class 5
Insulation	electron beam cross-linked polyolefin copolymer compound, halogen-free and highly flame retardant
Core identification code	individual colours

Electrical properties at 20 °C

Nominal voltage	U_0 /U: 450 / 750 V for fixed and protected installation: 0.6/1 KV
Test voltage	4000 V AC

Mechanical and thermal properties

Minimum bending radius	fixed installation: occassionally flexing:	4 x outer diameter 6 x outer diameter
Temperature range	fixed installation: occasional flexing: Short circuit temperature: +200°C	-55 °C up to +125 °C max. conductor temp. up to +145°C max. conductor temp.(3000 h) -35 °C up to +120 °C max. conductor temp. (20.000h, IEC 60216)
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 no flame propagation acc. to IEC 60332-3-24 resp. EN 60332-3-24 (Cat. C) or IEC 60332-3-25 resp. EN 60332-3-25 (Cat. D) (for cable with OD ≤ 12.0 mm)	
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1	
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2	
Smoke density	acc. to IEC 61034-2 resp. EN 61034-2	
Toxicity	acc. to EN 50305 EN 50306-1: max. 6	
UV resistance	acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)	
Ozone resistance	acc. to EN 50396 , method B	
Oil resistance	acc. to EN 50290-2-22, TM54	

Tests	acc. to IEC 60811resp. EN 60811, EN 50395
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
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.