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1231000	DATA SHEET	LAPP
valid from: 12.02.2019	ÖLFLEX® HEAT 125 SC	

Application

ÖLFLEX® HEAT 125 SC 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 GL. These single cores are VDE-tested and according to this marked with ⊲VDE⊳.

Design

Design	EN 50525-3-41 resp. VDE 0285-525-3-41
Certification	EN 50525-3-41 resp. VDE 0285-525-3-41 (H05Z-K, H07Z-K) Cores without approvals: X05Z-K; X07Z-K DNV GL
Conductor	fine wire strands of non-porous tinned copper acc. to IEC 60228 resp. VDE 0295, 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

Rated voltage	U_0 /U	≤ 1.0 mm²	300 / 500 V
	U_0 /U	≥ 1.5 mm²	450 / 750 V
	U_0 /U	≥ 1.5 mm²	for fixed and protected installation: 0,6 / 1 KV
Test voltage	4000 V AC		

Mechanical and thermal properties

Minimum bending radius	occassionally flexing: fixed installation:	6 x outer diameter 4 x outer diameter
Temperature range	occasional flexing: fixed installation: Short circuit temperature:	-35 °C up to +120 °C max. conductor temp. (20.000h, IEC 60216) -55 °C up to +125 °C max. conductor temp. up to +145°C max. conductor temp.(3000 h) +250°C
Flammability	flame retardant acc. to	IEC 60332-1-2 no flame propagation acc. to IEC 60332-3-24 Cat. C or IEC 60332-3-25 Cat. D (for cable with OD ≤ 12.0 mm) Exception: 0.5 mm²
Halogen free	acc. to IEC 60754-1, EN 60754-1	
Corrosivity of gases	acc. to IEC 60754-2, EN 60754-2	
Smoke density	acc. to IEC 61034-2	
Toxicity	acc. to NES 02-713 (< 3), NF X 70-100 EN 50264-1 resp. VDE 0260-264-1	
UV resistance	acc. to EN ISO 4892-2-2013, method A (change of colour allowed)	
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B	
Oil resistance	acc. to DIN EN 50290-2-22 resp. VDE 0819-102, TM54	
Tests	acc. to IEC 60811, EN 50395	
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)	

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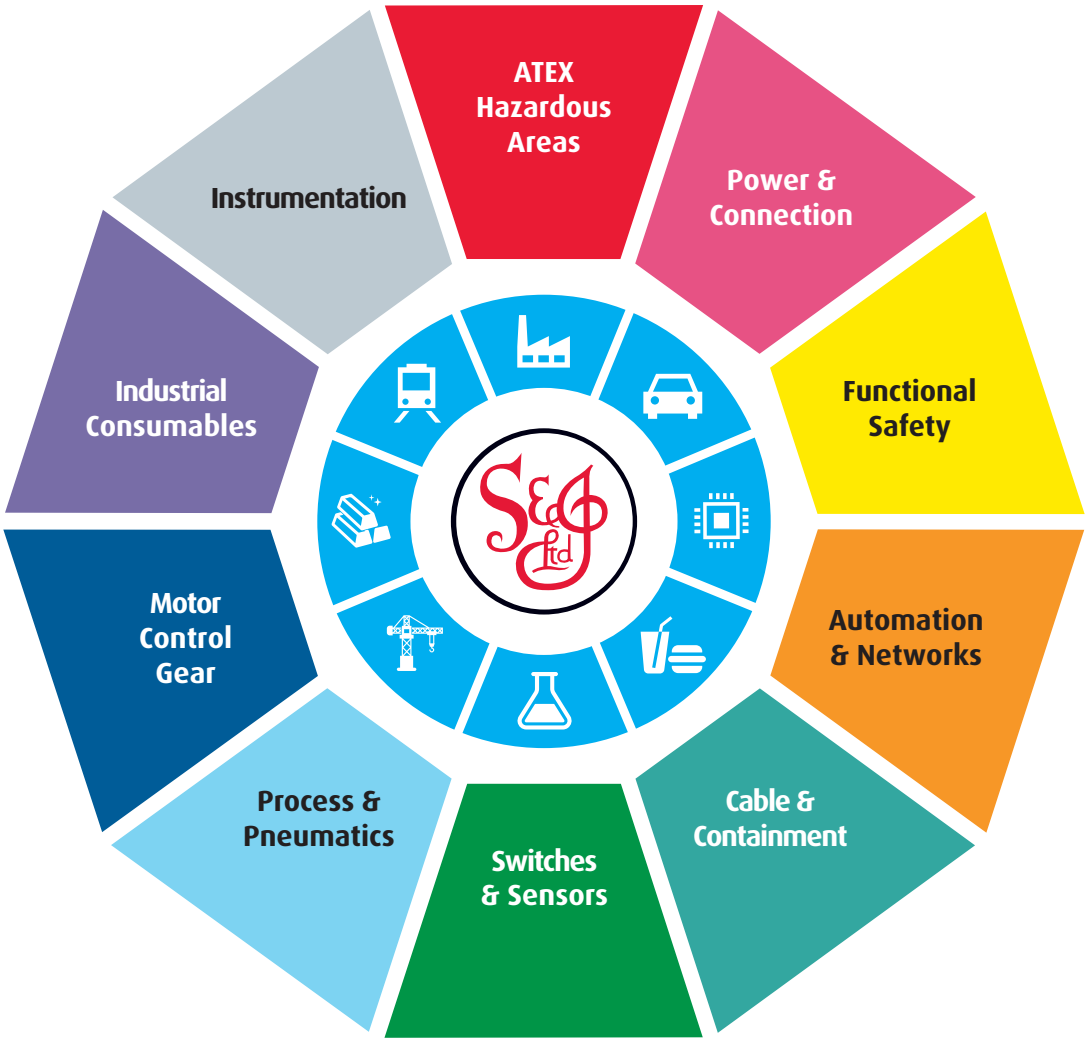

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