



DATA SHEET	0181000
ÖLFLEX® HEAT 145 SC / single core	valid from : 04.12.2007

Application

ÖLFLEX® HEAT 145 SC are heat resistant single core cables, insulated with a cross-linked, halogen-free polyolefin copolymer compound with excellent mechanical characteristics. Further special features: Large temperature range, good UV-light- and oil resistance, halogen-free, low smoke density and low toxicity of the smoke gases in case of fire.

Typically used for and in railways, locomotives, trams, busses or any other kind of public transport systems, in subways/underground, for inside wiring of lamps, heating appliances, electrical machines and in any kind of plant and machinery construction.

Design

Conductor	fine wire strand of tinned copper acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	cross-linked polyolefin copolymer, halogen free
Core identification	individual colours

Electrical properties at 20 °C

Nominal voltage	up to 1, 0 mm ² : 300 / 500 V from 1, 5 mm ² : 450 / 750V, for fixed and protected installation from 1, 5 mm ² : 0,6 / 1 kV
Test voltage	3500 V AC

Mechanical and thermal properties

Temperature range	fixed installation -55 °C to +125 °C max. conductor temperature for flex. applications -35 °C to +120 °C max. conductor temperature for short time up to +145 °C max. conductor temperature
Min. bending radius	4 x cable diameter for fixed installation
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 and IEC 60332-3-24 (Cat. C) resp. VDE 0482-266-2-4
Smoke density	acc. to IEC 61034-2
Halogen-free	acc. to IEC 60754-1 resp. VDE 0472 part 815
Corrosivity	acc. to IEC 60754-2 resp. VDE 0482 part 267-2-3
Chemical resistance	oil resistance acc. to IEC 60811-2-1 resp. VDE 0473 part 811-2-1
Tests	acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x, VDE 0472
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).

elaborated by: TE-K: M. Herb / R. Krämer	Document: DB0181000EN	page 1 of 1
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