



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 mm²: 300 / 500 V
 from 1, 5 mm²: 450 / 750V,
 for fixed and protected installation from 1, 5 mm² : 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).