



DATA SHEET		0026805
ÖLFLEX® HEAT 145 MC (multi core)		valid from : 06.12.2007

## Application

ÖLFLEX® HEAT 145 MC are heat resistant multi core cables, insulated and sheathed with a cross-linked halogen-free polyolefine copolymere compound with excellent mechanical characteristics, for fixed installation and flexible applications and normal mechanical stress. 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, in subways/underground, busses or any other kind of public transport systems, for 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 copolymere, halogen free
Core identification	acc. to VDE 0293-1, with gn/ye or without gn/ye ground conductor up to 5 cores coloured in acc. to HD 308 S2 resp. VDE 0293-308 more than 5 cores black with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Outer sheath	cross-linked polyolefin copolymer, halogen free, black

## Electrical properties at 20 °C

Nominal voltage	up to 1,0 mm <sup>2</sup> : 300 / 500 V from 1,5 mm <sup>2</sup> : 450 / 750 V for fixed and protected installation from 1,5 mm <sup>2</sup> : 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 15 x cable diameter for flex. applications
Flammability	flame retardant as 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)

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