0091200	DATA SHEET	LAPP
valid from: 06.08.2025	ÖLFLEX® HEAT 205 MC	

Application

ÖLFLEX® HEAT 205 MC are heat resistant power and control cables for use in environments with very high operating temperatures up to +205 °C or heavy usage of chemical agents. Considering the temperature range, an outdoor use is possible without UV protection.

Further special features:
- Resistance against acids, solvents, lacquers, petrol, oil, hydraulic fluids and many other chemical media.
- Difficult to inflame and low water absorption.
- High dielectric strength
- High elongation and tear resistance as well as high abrasion resistance.
- Adhesion free insulation materials.
- Weather and ozone resistant and hydrophobic and dirt-repellent as well as resistant to microbes

Application range:
Industrial furnace construction, foundries, chemical industry, power plant engineering, paint shop line technology, heating elements, polymer processing, wind turbine engineering.

Design

Conductor	fine wire strands of non-porous tinned copper acc. to IEC 60228 resp. EN IEC 60228, class 5, except cross-sections with 0.25 mm² based on IEC 60228 resp. EN IEC 60228, class 5
Insulation	stress-crack resistant FEP compound 6YI1 acc. to VDE 0207-6 with increased requirements acc. to Lapp specification
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cores acc. to VDE 0293-308 starting at 3 cores with GN/YE ground conductor started at 6 cores acc. to ÖLFLEX® colour code
Outer sheath	stress-crack resistant FEP compound 6YI1 acc. to VDE 0207-6 with increased requirements acc. to Lapp specification colour: black, similar RAL 9005

Electrical properties at 20 °C

Nominal voltage	U_0/U: 300/500 V
Test voltage	2500 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	fixed installation: -100° C up to +205° C (maximum conductor temperature)

General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).