


0026001	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® HEAT 105 MC	

Application

ÖLFLEX® HEAT 105 MC cables are flame retardant, control cables for occasional flexible use and fixed installation under normal mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are largely resistant to acids, alkalis and certain oils at room temperature.

They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:

For connecting of motors, transformers, reels, plants, machines, appliances, switch cabinets and other installations with a higher operating or ambient temperature.

Design

Design	based on DIN EN 50525-2-11 resp. VDE 0285-525-2-11
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	PVC-compound TI3 acc. to EN 50363-3 resp. VDE 0207-363-3
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cores: acc. to VDE 0293-308 started at 6 cores: acc. to ÖLFLEX® colour code
Outer sheath	PVC-compound TM3 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 Colour: black, similar RAL 9005

Electrical properties at 20°C

Rated voltage	U ₀ / U:	300 / 500 V
Test voltage	core / core:	2500 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing:	15 x outer diameter
	fixed installation:	4 x outer diameter
Temperature range	occasional flexing:	+5 °C up to +90 °C max. conductor temp.
	fixed installation:	-20 °C up to +90 °C max. conductor temp.
	short term fixed installation:	+105 °C max. conductor temp.
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	
UV resistance	acc. to EN 50525-1 (VDE 0285-525-1) cable with black sheath are suitable for permanent outdoor use.	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)	

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