30020808	DATA SHEET	LAPP
valid from: 01.01.2019	ÖLFLEX® HEAT 1565 MC	

Application

ÖLFLEX® HEAT 1565 MC cables ensure the power supply of electric circuits at extremely dangerous locations, e.g. blast furnaces, coke mills, oil refineries, glassworks, aluminium- and steel works etc. The maximum admissible temperature is thereby up to +1565°C (short-time). The outstanding heat-proved quality and flame resistance guarantee the function even at contact with melted metal or glass for short-term.
The cable is only suitable for installation in dry areas.

The single core cables are halogen-free and flame retardant.

Design

Conductor	fine wire strands of nickel-plated copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	Several layers of Mica tape Glass fibre braid with special impregnation
Core identification code	cables with 2 cores – brown, blue cables with 4 cores – black, blue, yellow, red (the cores contain coloured stripes)
Stranding	cores twisted together, fillers allowed
Outer sheath	Several layers of Mica tape Glass fibre braid with special impregnation red (change of colour allowed)

Electrical properties at 20°C

Conductor resistance	0,5 mm² :	47 Ω/km	1,5 mm² :	16 Ω/km
	0,75 mm² :	32 Ω/km	2,5 mm² :	10 Ω/km
	1,0 mm² :	24 Ω/km	4,0 mm² :	6,1 Ω/km
Rated voltage	U_0/U: 300/500 V			
Test voltage	2000 V AC			

Mechanical and thermal properties

Minimum bending radius	occasional flexing at max. +260°C	15 x cable Ø
	fixed installation:	5 x cable Ø
Temperature range	-195°C up to +400° C max. conductor temperature Short-term: up to +1565 °C	
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)	