

3012370	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® HEAT 1565 SC	

Application

ÖLFLEX® HEAT 1565 SC 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
Outer sheath	Glass fibre braid with special impregnation red (change of colour allowed)

Electrical properties at 20°C

Conductor resistance	0,5 mm² :	47 Ω/km	6,0 mm² :	4,1 Ω/km
	0,75 mm² :	32 Ω/km	10,0 mm² :	2,4 Ω/km
	1,0 mm² :	24 Ω/km	16,0 mm² :	1,5 Ω/km
	1,5 mm² :	16 Ω/km	25,0 mm² :	0,96 Ω/km
	2,5 mm² :	10 Ω/km	35,0 mm² :	0,68 Ω/km
	4,0 mm² :	6,1 Ω/km	50,0 mm² :	0,48 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)	

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