

Suggested Copy for Lapp Limited in Farnell Catalogue

SILFLEX® SiF Silicone Single Cores

(Farnell: High Temperature Halogen Free Silicone Single Cores)

SILFLEX~ SiF cables are silicone insulated single cores and recommended for use in the case of high ambient temperatures under sufficient ventilation and low mechanical stress. In the case of room temperature, SILFLEX~ SiF is largely resistant against oil, alcohol, alkalis, salt solutions and salt water. The gases are halogen free and non-corrosive.

Design

Conductor	SiF made of tinned copper strands as to IEC 60228 (VDE 0295) class 5
Core insulation	Silicone based compound EI 2 as to HD 22.1 (VDE 0281-1)
Core identification	coloured

Electrical properties at 20° C

Nominal voltage	500 V
Test voltage	2000 V AC

Mechanical and thermal properties

Temperature range	-50 °C up to +180°C for a short time up to +200°C Pay attention to sufficient ventilation, if ignoring the max. temperature is +100°C.
Min. bending radius	flex. use 15 x cable diameter fixed installation 10 x cable diameter
Flame retardant	as to IEC 60332.1 (EN 50265-2-1, V DE 0482 TeiI265-2-1) After combustion a SiO ₂ ash skeleton remains, which has still good insulation properties but has no more any mechanical stability.
Tests	in acc. with VDE 0207 and VDE 0472
EC directive	This cable confirms to ECD 73/23/EEC (low voltage directive).