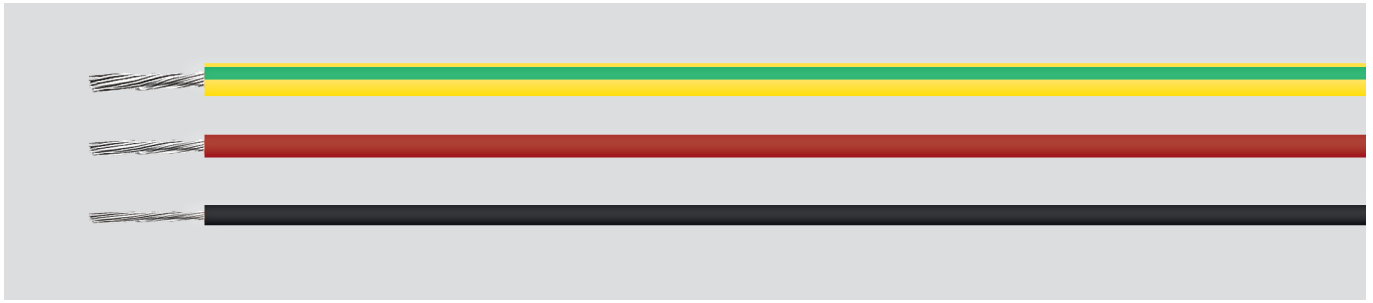


# SiF

**silicon single core, halogen-free**

## Technical data

- Spezial-silicon single core with higher heat-resistance range adapted to DIN VDE 0250 Teil 1 and part 502
- **Temperature range**  
flexing -25°C to +180°C  
fixed installation -60°C to +180°C
- Permissible conductor **operating temperature** +180°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V
- **Test voltage**  
2000 V
- **Breakdown voltage**  
min. 5000 V
- **Minimum bending radius**  
flexing 15x core Ø  
fixed installation 6x core Ø
- **Radiation resistance**  
up to 20x10<sup>6</sup> cJ/kg (up to 20 Mrad)

## Cable structure

- Tinned copper conductor, from 0,5 mm<sup>2</sup> to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
  - Conductor construction  
0,25 mm<sup>2</sup> = app. 14x0,15 mm
  - Core insulation of silicone
- ### Tests
- Halogen-free acc. to  
DIN VDE 0482-754-1,  
DIN EN 60754-1, IEC 60754-1  
(previously DIN VDE 0482-267-2-1)
  - Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2,  
DIN EN 60754-2, IEC 60754-2  
(previously DIN VDE 0482-267-2-2)
  - Behaviour in fire no flame propagation acc. to DIN VDE 0482-332-1-2,  
DIN EN 60332-1-2, IEC 60332-1 (equivalent  
DIN VDE 0472 part 804 test method B)

## Properties

- **Resistant to**  
high molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolution, oxidation substances, tropical influences and weather, lake water, oxygen
- High flash points
- For laying as a fixed installation only in open or ventilated pipe systems. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C.

## Application

Special single cores for use in high, resp. low temperature areas. They are used mainly in the steel producing industries, in aviation industries as well as in ship building, cement, glass and ceramic factories. As this single cores are halogen-free, especially suited for use in power stations.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	BK	BU	BN	RD	WH	GY	VT	YE	PK	GN	OG	BEIGE	TRANS	2-col.
Part no. 0,25	1,9	2,4	5,5	23201	23203	23204	23202	23205	23206	23207	23208	23211	23200	23209	23212	23210	23213
Part no. 0,5	2,1	4,8	8,6	23301	23303	23304	23302	23305	23306	23307	23308	23311	23300	23309	23312	23310	23313
Part no. 0,75	2,4	7,2	11,8	23401	23403	23404	23402	23405	23406	23407	23408	23411	23400	23409	23412	23410	23413
Part no. 1	2,5	9,6	13,5	23501	23503	23504	23502	23505	23506	23507	23508	23511	23500	23509	23512	23510	23513
Part no. 1,5	2,8	14,4	18,5	23601	23603	23604	23602	23605	23606	23607	23608	23611	23600	23609	23612	23610	23613
Part no. 2,5	3,4	24,0	30,0	23701	23703	23704	23702	23705	23706	23707	23708	23711	23700	23709	23712	23710	23713
Part no. 4	4,2	38,0	47,3	23801	23803	23804	23802	23805	23806	23807	23808	23811	23800	23809	23812	23810	23813
Part no. 6	5,0	58,0	71,1	23901	23903	23904	23902	23905	23906	23907	23908	23911	23900	23909	23912	23910	23913
Part no. 10	6,6	96,0	119,4	24601	24603	24604	24602	24605	24606	24607	24608	24611	24600	24609	24612	24610	24613
Part no. 16	7,4	154,0	187,7	24701	24703	24704	24702	24705	24706	24707	24708	24711	24700	24709	24712	24710	24713
Part no. 25	9,2	240,0	289,6	24801	24803	24804	24802	24805	24806	24807	24808	24811	24800	24809	24812	24810	24813
Part no. 35	10,3	336,0	398,0	23953	451103	451104	451102	451105	451106	451107	451108	451111	451100	451109	451112	451110	451113
Part no. 50	11,8	480,0	560,0	23954	451203	451204	451202	451205	451206	451207	451208	451211	451200	451209	451212	451210	451213
Part no. 70	13,6	672,0	766,0	23955	451303	451304	451302	451305	451306	451307	451308	451311	451300	451309	451312	451310	451313
Part no. 95	15,6	912,0	1032,0	23956	451403	451404	451402	451405	451406	451407	451408	451411	451400	451409	451412	451410	451413
Part no. 120	17,6	1152,0	1285,0	23957	451503	451504	451502	451505	451506	451507	451508	451511	451500	451509	451512	451510	451513
Part no. 150	19,6	1440,0	1564,0	23958	451603	451604	451602	451605	451606	451607	451608	451611	451600	451609	451612	451610	451613
Part no. 185	22,4	1776,0	1859,0	23959	451703	451704	451702	451705	451706	451707	451708	451711	451700	451709	451712	451710	451713

Dimensions and specifications may be changed without prior notice. (RK01)