SiF / Siff silicon single cores, halogen-free



Sincle Conductor

Technical data

- Spezial-silicon single core with higher heat-resistance range adapted to DIN VDE 0250 Teil 1 and part 502
- Temperatue range -60°C to +180°C
- (up to +220°C for short time) Temperature limit at the conductor in operation +180°C
- Nominal voltage U₀/U 300/500 V
- Test voltage 2000 V
- Breakdown voltage min. 5000 V Minimum bending radius
- 6x core Ø Radiation resistance

up to 20 x 10⁶ cJ/kg (up to 20 Mrad)

Cable structure Type SiF

- Tinned copper-conductor, from 0,5 mm² to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Conductor construction
- 0,25 mm² = 14x0,15 mm Core insulation of silicone
- Type SiFF
- Tinned Cu-conductor, to DIN VDE 0295 cl.6, extra fine-wire, B5 6360 cl.6, IEC 60228 cl.6 (single wire Ø 0,07 mm)
- Core insulation of silicone

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 as well as in ducts. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C.

Tests

- Corrosiveness of combustion gases (Halogen-free) acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- 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)

Note

- Please complete the part number for these cables by adding the suffix for the colour required as per the list:
 - 00 = green, 01 = black, 02 = red,
 - 03 = blue, 04 = brown, 05 = white, 06 = grey, 07 = violet, 08 = yellow,
 - 09 = orange, 10 = transparent,
 - 11 = pink, 12 = beige, 13 = 2-colour
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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, glas and ceramic factories. As this single cores are halogen-free, especially suited for use in power stations. CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

CIE	
201	

	section ap mm ^a	prox.mm v	veight a	Veight A pprox. g/km	WG-No.
232xx	0,25	1,9	2,4	5,5	24
233xx	0,5	2,1	4,8	8,6	20
234xx	0,75	2,4	7,2	11,8	18
235xx	1		9,6	13,5	17
236xx	1,5	2,8	14,4	18,5	16
237xx	2,5	3,4	24.0	30,0	14
238xx	4	4,2	38,0	47.3	12
239xx	6	5,0	58.0	71,1	10
246xx	10	6,6	96,0	119,4	8
247xx	16	7,4	154,0	187,7	6
248xx	25	9.2	240.0	289.6	4

SiF (wire colour black)

second to have a second second		rox.mm	weight a	Veight A Ipprox. (g / km	WG-No,
23953 73954	35	10,3	336,0	398,3	2
23955	50 70	11,8 13,6	480,0 672,0	559,7 765,8	2/0
23956 23957	95 120	15,6 17,6	912.0 1152,0	1031,5 1284,6	3/0 4/0
23958 23959	150	19,6	1440.0	1563,4	300 kcmil

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

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SiFF						
Part no.	Cross-	Outer			Weight A	WG-No.
	section	appro			approx.	CORPORATION AND A
451xx	mm ² 0,25	AC (1997)	1.9	kg / km 2,4	kg/km 6,0	24
452xx	0.5		2.2	4.8	10.0	29
453xx	0,75		2,5	7,2	13,0	18
454xx	1	2010	2,6	9,6	15,0	17
455xx	1,5		3.1	14,4	19,0	16
456xx 457xx	2,5		3./ 4 4	24,0 38,0	32,0	12
458xx	6		siz	58.0	73.0	12
459xx	10		6,8	96,0	125,0	8