



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**
U₀/U 300/500 V
- **Test voltage**
2000 V
- **Breakdown voltage**
min. 5000 V
- **Minimum bending radius**
flexing 12,5x core Ø
fixed installation 5x core Ø
- **Radiation resistance**
up to 20x10⁶ cJ/kg (up to 20 Mrad)

Cable structure

- Tinned Cu-conductor, to DIN VDE 0295 cl.6, extra fine wire, BS 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. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C.

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)

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

Cross-sec. mm ²	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	6,0	45101	45103	45104	45102	45105	45106	45107	45108	45111	45100	45109	45112	45110	45113
Part no. 0,5	2,2	4,8	10,0	45201	45203	45204	45202	45205	45206	45207	45208	45211	45200	45209	45212	45210	45213
Part no. 0,75	2,5	7,2	13,0	45301	45303	45304	45302	45305	45306	45307	45308	45311	45300	45309	45312	45310	45313
Part no. 1	2,6	9,6	15,0	45401	45403	45402	45404	45405	45406	45407	45408	45411	45400	45409	45412	45410	45413
Part no. 1,5	3,1	14,4	19,0	45501	45503	45504	45502	45505	45506	45507	45508	45511	45500	45509	45512	45510	45513
Part no. 2,5	3,7	24,0	32,0	45601	45603	45604	45602	45605	45606	45607	45608	45611	45600	45609	45612	45610	45613
Part no. 4	4,4	38,0	50,0	45701	45703	45704	45702	45705	45706	45707	45708	45711	45700	45709	45712	45710	45713
Part no. 6	5,2	58,0	73,0	45801	45803	45804	45802	45805	45806	45807	45808	45811	45800	45809	45812	45810	45813
Part no. 10	6,8	96,0	125,0	45901	45903	45904	45902	45905	45906	45907	45908	45911	45900	45909	45912	45910	45913

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