

Besilen® - Silicone Cables

EWKF

BiHF(K)-J

Besilen® insulated strands with extremely notch resistant Besilen® outer sheath



Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Colour code:	coloured acc. to HD 308 (VDE 0293-308), from 6 cores black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, from 3 cores a green-yellow earth wire
Stranding:	in layers
Sheath material:	Besilen® notch resistant
Sheath colour:	black (similar RAL 9011)

Outstanding features:



- improved initial tear resistance
- improved tear-growth resistance
- extremely notch resistant
- good sunlight resistance
- halogen-free
- flexible at low temperatures
- heat resistant

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	core/core 2000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+180 °C
<i>flexible application:</i>	-25/+180 °C
<i>short-time use:</i>	+250 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Chem. resistance:	see chapter N „Technical Data“
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see chapter N „Technical Data“

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
01450207	2 x 0,75	0,21	5,4	14,4	40
01450307	3 x 0,75	0,21	5,7	21,6	49
01450407	4 x 0,75	0,21	6,2	28,8	59
01450507	5 x 0,75	0,21	6,9	36,0	71
01450707	7 x 0,75	0,21	7,7	50,4	96
01451207	12 x 0,75	0,21	10,3	86,4	157
01450210	2 x 1,00	0,21	5,6	19,2	45
01450310	3 x 1,00	0,21	5,9	28,8	56
01450410	4 x 1,00	0,21	6,5	38,4	69
01450510	5 x 1,00	0,21	7,1	48,0	83
01450710	7 x 1,00	0,21	8,0	67,2	112
01451210	12 x 1,00	0,21	10,7	115,2	185
01450215	2 x 1,50	0,26	6,6	28,8	64
01450315	3 x 1,50	0,26	7,0	43,2	79
01450415	4 x 1,50	0,26	7,8	57,6	101
01450515	5 x 1,50	0,26	8,6	72,0	121
01450715	7 x 1,50	0,26	9,4	100,8	158

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
01451215	12 x 1,50	0,26	12,8	172,8	265
01451815	18 x 1,50	0,26	15,4	259,2	391
01452415	24 x 1,50	0,26	18,2	345,6	521
01452515	25 x 1,50	0,26	18,6	360,0	540
01450225	2 x 2,50	0,26	8,0	48,0	97
01450325	3 x 2,50	0,26	8,5	72,0	122
01450425	4 x 2,50	0,26	9,3	96,0	151
01450525	5 x 2,50	0,26	10,6	120,0	191
01450625	6 x 2,50	0,26	11,6	144,0	223
01450725	7 x 2,50	0,26	11,6	168,0	250
01450340	3 x 4,00	0,31	10,2	115,2	184
01450440	4 x 4,00	0,31	11,1	153,6	228
01450540	5 x 4,00	0,31	12,5	192,0	280
01450740	7 x 4,00	0,31	13,6	268,8	369
01450360	3 x 6,00	0,31	11,4	172,8	251
01450460	4 x 6,00	0,31	12,5	230,4	315
01450560	5 x 6,00	0,31	13,8	288,0	381

Other dimensions and colours are possible on request.

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