Besilen® - Silicone Cables

BiHF/Cu/Bi(K)-J

EWKF

Besilen® insulated strands with Besilen® inner sheath, overall copper screen and extremely notch resistant Besilen® outer sheath



CE RoHS PFAS FREE

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
Inner sheath:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Screen:	tinned copper braiding
Sheath material:	Besilen® notch resistant
Sheath colour:	black (similar RAL 9011)

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	core/core 2000 V core/screen 2000 V
Min. bending radius *fixed laying:* *flexible application:*	 5 x d 10 x d
Radiation resistance:	2 x 10^7 cJ/kg
Temperature range *fixed laying:* *flexible application:* *short-time use:*	 -40/+180 °C -25/+180 °C +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“

Outstanding features:

- improved initial tear resistance
- improved tear-growth resistance
- extremely notch resistant
- good sunlight resistance
- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- increased mechanical protection
- PFAS free

Possible on request without inner sheath!

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
01950207	2 x 0,75	0,21	8,2	37,0	100
01950307	3 x 0,75	0,21	8,5	44,4	109
01950407	4 x 0,75	0,21	9,0	55,0	124
01950507	5 x 0,75	0,21	9,7	62,9	140
01950707	7 x 0,75	0,21	10,7	97,1	184
01951207	12 x 0,75	0,21	13,7	148,1	285
01950210	2 x 1,00	0,21	8,4	42,0	108
01950310	3 x 1,00	0,21	8,7	54,7	120
01950410	4 x 1,00	0,21	9,3	64,8	137
01950510	5 x 1,00	0,21	10,1	93,8	159
01950710	7 x 1,00	0,21	11,0	114,3	203
01951210	12 x 1,00	0,21	14,1	177,6	314
01950215	2 x 1,50	0,26	9,4	55,3	138
01950315	3 x 1,50	0,26	10,0	88,8	166
01950415	4 x 1,50	0,26	10,8	104,4	193
01950515	5 x 1,50	0,26	11,6	124,3	221
01950715	7 x 1,50	0,26	12,8	154,3	274

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
01951215	12 x 1,50	0,26	16,8	273,3	452
01951815	18 x 1,50	0,26	19,4	375,5	610
01952415	24 x 1,50	0,26	22,4	483,2	786
01952515	25 x 1,50	0,26	22,8	512,9	818
01950225	2 x 2,50	0,26	11,0	95,1	201
01950325	3 x 2,50	0,26	11,5	124,2	227
01950425	4 x 2,50	0,26	12,7	156,0	276
01950525	5 x 2,50	0,26	13,8	181,9	320
01950625	6 x 2,50	0,26	15,0	212,2	370
01950725	7 x 2,50	0,26	15,0	236,2	397
01950340	3 x 4,00	0,31	13,6	176,8	302
01950440	4 x 4,00	0,31	14,5	221,0	377
01950540	5 x 4,00	0,31	15,9	291,2	454
01950740	7 x 4,00	0,31	17,4	379,7	573
01950360	3 x 6,00	0,31	15,7	241,5	447
01950460	4 x 6,00	0,31	17,0	329,1	542
01950560	5 x 6,00	0,31	18,6	402,1	643

Other dimensions and colours are possible on request.