

## GAALTHERM® SiHF(K)/Cu/Si-J

SiHF with overall copper screen and extremely notch resistant Silicone outer sheath



GAALTHERM® SiHF(K)/Cu/Si-J



### Construction:

<b>Conductor:</b>	flexible tinned copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
<b>Insulation:</b>	silicone type E I2 acc. to DIN VDE 0282 part 1 and HD 22.1
<b>Colour core:</b>	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	Silicone type EM9 acc. to DIN VDE 0282 part 1 + HD 22.1
<b>Screen:</b>	tinned copper braid
<b>Outer sheath:</b>	reddish brown (similar RAL 3016), silicone type 2GM1 acc. to DIN VDE 0207 part 211

### Features:

- ▶ improved tear resistance
- ▶ extremely notch resistant
- ▶ good sunlight resistance
- ▶ flexible at low temperatures
- ▶ increased mechanical protection
- ▶ available on request without inner sheath

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Test voltage:</b>	2000 V core/screen 1000 V
<b>Min. bending radius:</b>	
<i>Fixed laying:</i>	5 x d
<i>Flexible application:</i>	10 x d
<b>Radiation resistance:</b>	2 x 10 <sup>7</sup> cJ/kg
<b>Temperature range:</b>	
<i>Fixed installation:</i>	- 40°C to + 180°C
<i>Flexible application:</i>	- 25°C to + 180°C
<i>In short circuit:</i>	+ 250°C
<b>Resistance:</b>	<p><b>-Halogen-free acc. to:</b> DIN VDE 0482 part.267-1 IEC 60754-1 EN 50267-1</p> <p><b>-Flame retardant and self extinguishing acc. to:</b> IEC 60332-1 + EN 50265-2-1 DIN VDE 0482 part 265-2-1</p> <p><b>-Corrosiveness of combustion gases acc. to:</b> VDE 0482 part 267-2, IEC 60754-2 EN 50267-2</p> <p><b>-Chemical resistance:</b> see technical informations</p> <p><b>-Weather resistance:</b> very good</p>

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Largest single- wire Ø mm ± 10%	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)	Part no.	No. of cores x cross section n x mm <sup>2</sup>	Largest single- wire Ø mm ± 10%	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
52150D73020M07	2x0,75	0,21	8,2	37,0	100	19	52150D70121M15	12G1,5	0,26	16,8	273,3	452	16
52150D72031M07	3G0,75	0,21	8,5	44,4	109	19	52150D70181M15	18G1,5	0,26	19,4	375,5	610	16
52150D72041M07	4G0,75	0,21	9,0	55,0	124	19	52150D70241M15	24G1,5	0,26	22,4	483,2	786	16
52150D72051M07	5G0,75	0,21	9,7	62,9	140	19	52150D70251M15	25G1,5	0,36	22,8	512,9	818	16
52150D70071M07	7G0,75	0,21	10,7	97,1	184	19	52150D73020M25	2x2,5	0,26	11,0	95,1	201	14
52150D70121M07	12G0,75	0,21	13,7	148,1	285	19	52150D72031M25	3G2,5	0,26	11,5	124,2	227	14
52150D73020M10	2x1	0,21	8,4	42,0	108	18	52150D72041M25	4G2,5	0,26	12,7	156,0	276	14
52150D72031M10	3G1	0,21	8,7	54,7	120	18	52150D72051M25	5G2,5	0,26	13,8	181,9	320	14
52150D72041M10	4G1	0,21	9,3	64,8	137	18	52150D72061M25	6G2,5	0,26	15,0	212,2	370	14
52150D72051M10	5G1	0,21	10,1	93,8	159	18	52150D70071M25	7G2,5	0,26	15,0	236,2	397	14
52150D70071M10	7G1	0,21	11,0	114,3	203	18	52150D72031M40	3G4	0,31	13,6	176,8	302	12
52150D70121M10	12G1	0,21	14,1	177,6	314	18	52150D72041M40	4G4	0,31	14,5	221,0	377	12
52150D73020M15	2x1,5	0,26	9,4	55,3	138	16	52150D72051M40	5G4	0,31	15,9	291,2	454	12
52150D72031M15	3G1,5	0,26	10,0	88,8	166	16	52150D70071M40	7G4	0,31	17,4	379,7	573	12
52150D72041M15	4G1,5	0,26	10,8	104,4	193	16	52150D72031M60	3G6	0,31	15,7	241,5	447	10
52150D72051M15	5G1,5	0,26	11,6	124,3	221	16	52150D72041M60	4G6	0,31	17,0	329,1	542	10
52150D70071M15	7G1,5	0,26	12,8	154,3	274	16	52150D72051M60	5G6	0,31	18,6	402,1	643	10

Other dimensions and colours are possible on request.