

GAALTHERM® SiHF UL

Silicone insulated strands with Silicone outer sheath



GAALTHERM® SiHF UL



Construction:

Conductor:	tinned on request bare copper strands acc. to DIN VDE 0295 + IEC 60228 class 5 and class 2 on request
Insulation:	Silicone compound acc. to UL 758
Colour core:	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
Stranding:	in layers
Outer sheath:	reddish brown (similar RAL 3016) silicone compound acc. to UL 758

Features:

- ▶ **UL AWM STYLE 4476 150°, 200°C 600 V**
- ▶ **CSA AWM I/II A/B 150°, 200°C C 600 V FT1 CE**
- ▶ flexible at low temperatures
- ▶ heat resistant

Technical data:

Nominal voltage:	Uo/U 300/500 V UL/CSA: 600 V
Test voltage:	2000 V
Min. bending radius:	15 x d
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range:	UL/CSA: - 50°C up to + 200°C
<i>Fixed installation:</i>	- 40/+ 180°C
<i>Flexible application:</i>	- 25/+ 180°C
<i>In short circuit:</i>	+ 250°C
Resistance:	-Halogen-free acc. to: DIN VDE 0482 part. 267-1 IEC 60754-1 EN 50267-1 Flame retardant and self extinguishing acc. to: IEC 60332-1 + EN 50265-2-1 DIN VDE 0482 part 265-2-1 UL VW-1, CSA FT1 -Corrosiveness of combustion gases acc. to: VDE 0482 part 267-2, IEC 60754-2 EN 50267-2 -Chemical resistance: see technical informations -Weather resistance: very good

Part no.	No. of cores x cross section n x mm ²	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 ²	Largest single-wire Ø mm ± 10%	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
52120F93020A20	2 x 0,5	0,20	7,4	10,8	72	20	52120F93020A14	2 x 2,5	0,25	9,6	48	137	14
52120F92031A20	3 G 0,5	0,20	7,8	16,1	82	20	52120F92031A14	3 x 2,5	0,25	10,2	72	165	14
52120F92041A20	4 G 0,5	0,20	8,5	21,5	99	20	52120F92041A14	4 x 2,5	0,25	11,1	96	201	14
52120F92051A20	5 G 0,5	0,20	9,2	26,9	117	20	52120F92051A14	5 x 2,5	0,25	12,2	120	245	14
52120F90071A20	7 G 0,5	0,20	9,9	37,6	140	20	52120F90071A14	7 x 2,5	0,25	13,2	168	330	14
52120F90121A20	12 G 0,5	0,20	12,8	64,6	235	20	52120F93020A12	2 x 4	0,30	10,8	76,8	193	12
52120F93020A18	2 x 1	0,20	8,2	19,2	90	18	52120F92031A12	3 x 4	0,30	11,5	115,2	221	12
52120F92031A18	3 G 1	0,20	8,6	28,8	103	18	52120F92041A12	4 x 4	0,30	12,6	153,6	274	12
52120F92041A18	4 G 1	0,20	9,4	38,4	126	18	52120F92051A12	5 x 4	0,30	14,2	192	347	12
52120F92051A18	5 G 1	0,20	10,3	48	152	18	52120F93020A10	2 x 6	0,30	13,6	115,2	302	10
52120F90071A18	7 G 1	0,20	11,1	67,2	183	18	52120F92031A10	3 x 6	0,30	14,9	172,8	367,8	10
52120F90121A18	12 G 1	0,20	14,5	115,2	332	18	52120F92041A10	4 x 6	0,30	16,4	230,4	458	10
52120F93020A16	2 x 1,5	0,25	8,8	28,8	109	16	52120F92051A10	5 x 6	0,30	18	280	558	10
52120F92031A16	3 x 1,5	0,25	9,3	43,2	128	16	52120F92031A08	3 x 10	0,40	19,6	288	632	8
52120F92041A16	4 x 1,5	0,25	10,1	57,6	155	16	52120F92041A08	4 x 10	0,40	22	384	771	8
52120F92051A16	5 x 1,5	0,25	11,1	72	189	16	52120F92051A08	5 x 10	0,40	24,2	480	1015	8
52120F90071A16	7 x 1,5	0,25	12	100,8	231	16							
52120F90121A16	12 x 1,5	0,25	16,1	172,8	411	16							
52120F90161A16	16 x 1,5	0,25	17,8	230,4	541	16							
52120F90181A16	18 x 1,5	0,25	18,8	259,2	574	16							
52120F90251A16	25 x 1,5	0,25	22,9	360	837	16							

Other dimensions and colours are possible on request.