

HIGH TEMPERATURE CABLES

GAALTHERM® SiAF/POL UL

Silicone insulated single core flexible, with silicone impregnated polyester fiber braiding, I, I up to 13,8/15 kV



ELETTROTEK KABEL® GAATHERM® SiAF/POL UL

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Construction:

Conductor:	flexible tinned copper conductor Cl. 5, acc. to IEC 60228 and UL 758
Semi-conductive layer:	semi-conducting tape (for section ≥ 10 sqmm (AWG 8) for 1,1 kV version)
Insulation:	silicone-rubber compound
Outer sheath:	yellow (similar RAL 1021), silicone impregnated polyester fiber braiding (1,1 kV version) brown (similar RAL 8003), silicone impregnated polyester fiber braiding (3,3/4,2 kV version) grey (similar RAL 7001), silicone impregnated polyester fiber braiding, (6,9/7,2 kV version) black (similar RAL 9005), silicone impregnated polyester fiber braiding, (13,8/15 kV version)

Technical data:

Nominal voltage:	1,1 kV up to 13,8/15 kV
Test Voltage A.C.:	1,1 kV = 4 kV 3,3/4,2 kV = 9,4 kV 6,9/7,2 kV = 15,4 kV 13,8/15 kV = 31 kV
Temperature range:	-55°C up to +180°C (UL up to + 150°C)
Peaks:	up to + 210°C
Min. bending radius:	
Fixed laying:	10 x D

Resistance:



Fire resistant acc. to:
IEC 60331



Flame and fire retardant acc. to:
IEC 60332-1,
IEC 60332-3-24,
VW1, FT1, FT2



Halogen free acc. to:
IEC 60754-1



Corrosiveness of conflagration gases acc. to:
IEC 60754-2



Smoke emission properties acc. to:
IEC 61034

Features:

- very good flexibility
- high temperature resistance
- excellent dielectric strength
- excellent mechanical protection
- Ozone, and UV resistance
- oil resistance
- good chemical resistance
- on request version with PUR impregnated polyester fiber braiding with "5" on the 5th number of the Part no.
- RoHS, REACH approval



UL/CSA standards:

- UL AWM Style 3640 150°C, 180°C 1100 V / 3988 150°C 1100 V
- UL AWM Style 3641 150°C, 180°C 3300 V / 3989 150°C, 4200 V
- UL AWM Style 3642 150°C, 180°C 6900 V / 3990 150°C, 7200 V
- UL AWM Style 3643 150°C, 180°C 13800 V / 3991 150°C, 15000 V

acc. to UL 758

acc. to CSA C 22.2 N° 210-11

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1,1 kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
52340HYH010A16	1 x 1,5	5,3	14,4	20	16
52340HYH010A14	1 x 2,5	5,7	24	25	14
52340HYH010A12	1 x 4	6,4	38,4	28	12
52340HYH010A10	1 x 6	7	57,6	42	10
52340HYH010A08	1 x 10	8,2	96	55	8
52340HYH010A06	1 x 16	9,3	153,6	60	6
52340HYH010A04	1 x 25	10,8	240	75	4
52340HYH010A02	1 x 35	12,4	336	95	2
52340HYH010A01	1 x 50	14,1	480	115	0
52340HYH010A2C	1 x 70	16	672	130	2/0
52340HYH010A3C	1 x 95	18,3	912	160	3/0
52340HYH010A4C	1 x 120	19,8	1152	185	4/0
52340HYH010A5C	1x 150	22	1440	220	250 MCM
52340HYH010A7C	1 x 185	24,4	1776	260	350 MCM
52340HYH010A9C	1x 240	27,2	2304	315	450 MCM
52340HYH010ABC	1 x 300	30,2	2880	375	550 MCM

3,3/4,2 kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
52340LMH010A16	1 x 1,5	7,3	14,4	40	16
52340LMH010A14	1 x 2,5	7,7	24	45	14
52340LMH010A12	1 x 4	8,3	38,4	50	12
52340LMH010A10	1 x 6	9,5	57,6	65	10
52340LMH010A08	1 x 10	10,2	96	80	8
52340LMH010A06	1 x 16	11,3	153,6	90	6
52340LMH010A04	1 x 25	12,7	240	110	4
52340LMH010A02	1 x 35	13,7	336	120	2
52340LMH010A01	1 x 50	15,3	480	135	0
52340LMH010A2C	1 x 70	17,2	672	155	2/0
52340LMH010A3C	1 x 95	19,4	912	190	3/0
52340LMH010A4C	1 x 120	21,3	1152	225	4/0
52340LMH010A5C	1x 150	23,4	1440	260	250 MCM
52340LMH010A7C	1 x 185	25,3	1776	290	350 MCM
52340LMH010A9C	1x 240	27,7	2304	325	450 MCM
52340LMH010ABC	1 x 300	31,3	2880	425	550 MCM

6,9/7,2 kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
52340N5H010A12	1 x 1,5	8	14,4	60	
52340N5H010A14	1 x 2,5	8,3	24	80	
52340N5H010A12	1 x 4	9	38,4	100	12
52340N5H010A10	1 x 6	10	57,6	140	10
52340N5H010A08	1 x 10	10,8	96	190	8
52340N5H010A06	1 x 16	12	153,6	260	6
52340N5H010A04	1 x 25	14	240	380	4
52340N5H010A02	1 x 35	15	336	490	2
52340N5H010A01	1 x 50	16,5	480	660	0
52340N5H010A2C	1 x 70	18,3	672	875	2/0
52340N5H010A3C	1 x 95	21	912	1165	3/0
52340N5H010A4C	1 x 120	22	1152	1420	4/0
52340N5H010A5C	1x 150	24	1440	1750	250 MCM
52340N5H010A7C	1 x 185	26	1776	2115	350 MCM
52340N5H010A9C	1x 240	28,7	2304	2700	450 MCM
52340N5H010ABC	1 x 300	32,5	2880	3370	550 MCM

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13,8/15 kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
52340R7H010A16	1 x 1,5	10,7	14,4	110	16
52340R7H010A14	1 x 2,5	11,1	24	130	14
52340R7H010A12	1 x 4	11,7	38,4	150	12
52340R7H010A10	1 x 6	12,9	57,6	200	10
52340R7H010A08	1 x 10	13,6	96	255	8
52340R7H010A06	1 x 16	14,7	153,6	330	6
52340R7H010A04	1 x 25	16,1	240	445	4
52340R7H010A02	1 x 35	17,1	336	560	2
52340R7H010A01	1 x 50	18,7	480	730	0
52340R7H010A2C	1 x 70	20,5	672	955	2/0
52340R7H010A3C	1 x 95	22,5	912	1230	3/0
52340R7H010A4C	1 x 120	23,6	1152	1490	4/0
52340R7H010A5C	1x 150	25,7	1440	1825	250 MCM
52340R7H010A7C	1 x 185	27,7	1776	2200	350 MCM
52340R7H010A9C	1x 240	30	2304	2765	450 MCM
52340R7H010ABC	1 x 300	33,6	2880	3440	550 MCM

Other dimensions and colors available on request.