

GAALTHERM® HIGH TEMPERATURE CABLES

GAALTHERM® I45 MHT



CE

GAALTHERM® 145 MHT



Construction:

Conductor:	Flexible tinned copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	XLPOC compound
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:	black (RAL 9005),XLPOC compound

Features:

- ▶ Germanisher Lloyd approval
- ▶ Different insulation and outer sheath on request
- ▶ UV and ozone resistance
- ▶ abrasion and notch resistance
- ▶ weather resistance
- ▶ Germanischer Loyd approval

Applications:

Using for wiring up the light fixtures, heaters, electric machines, switching systems, distribution switchboards, for traffic control systems and various outdoor applications

Technical data:

Nominal voltage:	U _o /U 300/500 V up to 1 mm ² U _o /U 450/750 V from 1,5 mm ² for fixed and protection installation: U _o /U 0,6/1 kV from 1,5 mm ²
Test voltage:	3500 V
Temperature range:	-55°C to +145°C
<i>Fixed installation:</i>	-35°C to +120°C
<i>Flexible installation:</i>	+20°C
Min. bending radius:	
<i>fixed installation:</i>	4 x d
<i>in operation to - 30°C:</i>	12 x d
<i>in operation to + 60°C:</i>	8 x d
Resistance:	-Flame retardant acc. to: DIN VDE 0482 part 266-2, EN 50266-2, IEC 60332-3, BS 4066 part. 3 -Corrosiveness of combustion gases acc. to: DIN VDE 0482 part 267, EN 50267-2, IEC 60754-2 -Halogen-free acc. to: DIN VDE 0482 part 267-1, acc. to IEC 60754-1 EN 50267-1 -Smoke density acc. to: DIN VDE 0482 part 268-2,EN 50268-1/-2 IEC 61034-1 /61034-2, BS 7622.

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
51040D73020M02	2x0,25	4,6	4,8	28,7	24
51040D72031M02	3G0,25	4,9	7,2	33,7	24
51040D72041M02	4G0,25	5,5	9,6	41,8	24
51040D72051M02	5G0,25	5,8	12,0	47,0	24
51040D70061M02	6G0,25	6,5	14,4	58,0	24
51040D70071M02	7G0,25	6,9	16,8	64,0	24
51040D70081M02	8G0,25	7,3	19,2	71,0	24
51040D70101M02	10G0,25	8,1	24,0	84,0	24
51040D70121M02	12G0,25	8,1	28,8	90,0	24
51040D70141M02	14G0,25	8,6	33,6	102,0	24
51040D70161M02	16G0,25	8,9	38,4	114,0	24
51040D70191M02	19G0,25	10,1	45,6	132,0	24
51040D70211M02	21G0,25	10,5	50,4	145,0	24
51040D73020M05	2x0,5	5,3	9,6	39,6	20
51040D72031M05	3G0,5	5,7	14,4	48,1	20
51040D72041M05	4G0,5	6,2	19,2	51,0	20
51040D72051M05	5G0,5	7,0	24,0	64,0	20
51040D70071M05	7G0,5	8,1	33,6	88,0	20
51040D70071M05	7G0,5	8,1	33,6	88,0	20
51040D70081M05	8G0,5	9,0	38,4	102,0	20
51040D70101M05	10G0,5	10,0	48,0	123,0	20
51040D70121M05	12G0,5	10,0	57,6	135,0	20
51040D70141M05	14G0,5	10,5	67,2	153,0	20
51040D70161M05	16G0,5	11,3	76,8	176,0	20
51040D70191M05	19G0,5	12,4	91,2	213,0	20
51040D70211M05	21G0,5	13,0	100,8	234,0	20

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
51040D70241M05	24G0,5	14,0	115,2	263,0	20
51040D70251M05	25G0,5	14,0	120,0	269,0	20
51040D70271M05	27G0,5	14,0	129,6	280,0	20
51040D70301M05	30G0,5	14,6	144,0	311,0	20
51040D70331M05	33G0,5	15,4	158,4	343,0	20
51040D70371M05	37G0,5	16,5	177,6	392,0	20
51040D73020M07	2x0,75	6,0	14,4	40,0	19
51040D72031M07	3G0,75	6,4	21,6	53,0	19
51040D72041M07	4G0,75	7,0	28,8	69,0	19
51040D72051M07	5G0,75	7,9	36,0	86,0	19
51040D70061M07	6G0,75	8,5	43,2	101,0	19
51040D70071M07	7G0,75	9,1	50,4	117,0	19
51040D70081M07	8G0,75	10,3	57,6	140,0	19
51040D70101M07	10G0,75	11,4	72,0	167,0	19
51040D70121M07	12G0,75	11,4	86,4	183,0	19
51040D70141M07	14G0,75	12,1	100,8	212,0	19
51040D70161M07	16G0,75	12,8	115,2	239,0	19
51040D70191M07	19G0,75	14,1	136,8	290,0	19
51040D70211M07	21G0,75	14,9	151,2	323,0	19
51040D70241M07	24G0,75	16,1	172,8	364,0	19
51040D70251M07	25G0,75	16,1	180,0	371,0	19
51040D70271M07	27G0,75	16,1	194,4	387,0	19
51040D70301M07	30G0,75	16,8	216,0	429,0	19
51040D70331M07	33G0,75	17,5	237,6	468,0	19
51040D70371M07	37G0,75	19,1	266,4	550,0	19

Other dimensions and colours are possible on request.

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Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
51040D7L010M10	1x1	4	9,6	26,0	18
51040D73020M10	2x1	6,6	19,2	50,0	18
51040D72031M10	3G1	7,0	28,8	66,0	18
51040D72041M10	4G1	7,7	38,4	86,0	18
51040D72051M10	5G1	8,4	48,0	106,0	18
51040D70061M10	6G1	9,2	57,6	127,0	18
51040D70071M10	7G1	10,2	67,2	155,0	18
51040D70081M10	8G1	11,3	76,8	187,0	18
51040D70101M10	10G1	12,5	96,0	214,0	18
51040D70121M10	12G1	12,5	115,2	230,0	18
51040D70141M10	14G1	13,2	134,4	266,0	18
51040D70161M10	16G1	13,9	153,6	301,0	18
51040D70191M10	19G1	15,7	182,4	377,0	18
51040D70211M10	21G1	16,5	201,6	419,0	18
51040D70241M10	24G1	17,7	230,4	464,0	18
51040D70251M10	25G1	17,7	240,0	472,0	18
51040D70271M10	27G1	17,7	259,2	488,0	18
51040D70301M10	30G1	18,3	288,0	536,0	18
51040D70331M10	33G1	19,4	316,8	605,0	18
51040D70371M10	37G1	21,2	355,2	690,0	18
51040E7L010M15	1x1,5	4,4	14,4	33,0	16
51040E73020M15	2x1,5	7,8	28,8	69,0	16
51040E72031M15	3G1,5	8,3	43,2	93,0	16
51040E72041M15	4G1,5	9,1	57,6	120,0	16
51040E72051M15	5G1,5	10,1	72,0	152,0	16
51040E70061M15	6G1,5	11,2	86,4	187,0	16
51040E70071M15	7G1,5	12,1	100,8	222,0	16
51040E70081M15	8G1,5	13,5	115,2	263,0	16
51040E70101M15	10G1,5	15,0	144,0	308,0	16
51040E70121M15	12G1,5	15,0	172,8	330,0	16
51040E70141M15	14G1,5	15,9	201,6	383,0	16
51040E70161M15	16G1,5	16,8	230,4	438,0	16
51040E70191M15	19G1,5	19,0	273,6	554,0	16
51040E70211M15	21G1,5	20,0	302,4	614,0	16
51040E70241M15	24G1,5	21,7	345,6	691,0	16
51040E70251M15	25G1,5	21,7	360,0	701,0	16
51040E70271M15	27G1,5	21,7	388,8	723,0	16
51040E70301M15	30G1,5	22,5	432,0	796,0	16
51040E70331M15	33G1,5	23,5	475,2	880,0	16
51040E70371M15	37G1,5	25,5	532,8	1026,0	16
51040E7L010M25	1x2,5	5,1	24	46,0	14
51040E73020M25	2x2,5	9,1	48,0	99,0	14
51040E72031M25	3G2,5	9,9	72,0	140,0	14
51040E72041M25	4G2,5	10,9	96,0	183,0	14
51040E72051M25	5G2,5	12,2	120,0	231,0	14
51040E70061M25	6G2,5	13,4	144,0	280,0	14
51040E70071M25	7G2,5	14,6	168,0	336,0	14
51040E70081M25	8G2,5	16,2	192,0	397,0	14
51040E70101M25	10G2,5	17,9	240,0	460,0	14
51040E70121M25	12G2,5	17,9	288,0	500,0	14
51040E70141M25	14G2,5	19,2	336,0	593,0	14
51040E70161M25	16G2,5	20,4	384,0	675,0	14
51040E70191M25	19G2,5	22,8	456,0	835,0	14
51040E70211M25	21G2,5	24,2	504,0	939,0	14
51040E70241M25	24G2,5	26,1	576,0	1047,0	14
51040E70251M25	25G2,5	26,1	600,4	1067,0	14
51040E70271M25	27G2,5	26,1	648,0	1107,0	14
51040E70301M25	30G2,5	27,0	720,0	1219,0	14
51040E70331M25	33G2,5	28,4	792,0	1349,0	14
51040E70371M25	37G2,5	30,8	888,0	1565,0	14

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight kg/km	AWG no. *)
51040E7L010M40	1x4	5,7	38,4	63,0	12
51040E73020M40	2x4	10,7	76,8	159,0	12
51040E72031M40	3G4	11,5	115,2	197,0	12
51040E72041M40	4G4	12,8	153,6	260,0	12
51040E72051M40	5G4	14,2	192,0	329,0	12
51040E70061M40	6G4	15,4	230,4	398,0	12
51040E70071M40	7G4	17,0	268,8	478,0	12
51040E70081M40	8G4	18,2	307,2	553,0	12
51040E70101M40	10G4	20,6	384,0	663,0	12
51040E70121M40	12G4	20,6	460,8	725,0	12
51040E70141M40	14G4	21,0	537,6	797,0	12
51040E7L010M60	1x6	6,2	57,6	84,0	10
51040E73020M60	2x6	12,2	115,2	216,0	10
51040E72031M60	3G6	12,9	172,8	285,0	10
51040E72041M60	4G6	14,4	230,4	375,0	10
51040E72051M60	5G6	15,8	288,0	465,0	10
51040E70061M60	6G6	17,4	345,6	544,0	10
51040E70071M60	7G6	19,4	403,2	664,0	10
51040E7L010M61	1x10	7,8	96,0	134,0	8
51040E73020M61	2x10	15,4	192,0	351,0	8
51040E72031M61	3G10	16,5	288,0	475,0	8
51040E72041M61	4G10	18,6	384,0	630,0	8
51040E72051M61	5G10	20,4	480,0	782,0	8
51040E70061M61	6G10	22,6	576,0	914,0	8
51040E70071M61	7G10	24,7	672,0	1092,0	8
51040E7L010M62	1x16	8,9	153,6	195	6
51040E73020M62	2x16	17,5	307,2	495,0	6
51040E72031M62	3G16	19,1	460,8	691,0	6
51040E72041M62	4G16	21,2	614,4	905,0	6
51040E72051M62	5G16	23,6	768,0	1129,0	6
51040E70061M62	6G16	25,9	921,6	1327,0	6
51040E70071M62	7G16	28,6	1075,2	1590,0	6
51040E7L010M63	1x25	10,5	240,0	288	4
51040E73020M63	2x25	22,7	480,0	833,0	4
51040E72031M63	3G25	24,4	720,0	1139,0	4
51040E72041M63	4G25	27,3	960,0	1489,0	4
51040E72051M63	5G25	30,4	1200,0	1863,0	4
51040E70061M63	6G25	33,6	1440,0	2275,0	4
51040E70071M63	7G25	37,0	1680,0	2633,0	4
51040E7L010M64	1x35	12,2	336	406	2
51040E73020M64	2x35	25,1	672,0	1104,0	2
51040E72031M64	3G35	27,0	1008,0	1513,0	2
51040E72041M64	4G35	30,2	1344,0	1992,0	2
51040E72051M64	5G35	33,4	1680,0	2488,0	2
51040E7L010M65	1x50	14,8	480	580,0	1
51040E73020M65	2x50	30,3	960,0	1573,0	1
51040E72031M65	3G50	32,5	1440,0	2154,0	1
51040E72041M65	4G50	36,6	1920,0	2819,0	1
51040E72051M65	5G50	40,3	2400,0	3505,0	1
51040E7L010M66	1x70	16,5	672,0	778,0	2/0
51040E73020M66	2x70	34,7	1344,0	2157,0	2/0
51040E72031M66	3G70	37,2	2016,0	2946,0	2/0
51040E72041M66	4G70	41,8	2688,0	3888,0	2/0
51040E72051M66	5G70	46,6	3360,0	4864,0	2/0
51040E7L010M67	1x95	18,5	912,0	1012,0	3/0
51040E73020M67	2x95	39,5	1824,0	2763,0	3/0
51040E72031M67	3G95	42,6	2736,0	3835,0	3/0
51040E72041M67	4G95	47,7	3648,0	5052,0	3/0
51040E72041M67	5G95	52,9	4560,0	6307,0	3/0

Other dimensions and colours are possible on request.