

GAALTHERM® HIGH TEMPERATURE CABLES

GAALTHERM® I45 MCHT



CE

GAALTHERM® 145 MCHT



Construction:

Conductor:	Flexible tinned copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	XLPOC compound
Colour cores:	black cores with consecutive numbers
Stranding:	in layers
Screen:	tinned copper braid
Outer sheath:	black (RAL 9005), XLPOC compound

Features:

- ▶ Germanischer Lloyd approval
- ▶ Different insulation and outer sheath on request
- ▶ UV and ozone resistance
- ▶ abrasion and notch resistance
- ▶ weather resistance
- ▶ EMC (electromagnetic compatibility)

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:	<i>Fixed installation:</i> -55°C to +145°C <i>Flexible installation:</i> -35°C to +120°C <i>In short circuit:</i> +250°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. *)
51050D71020M02	2x0,25	5,0	16,0	36	24
51050D71030M02	3x0,25	5,5	21,0	44	24
51050D71050M02	5x0,25	6,4	29,0	68	24
51050D71070M02	7x0,25	7,5	37,0	95	24
51050D7L010M05	1x0,5	3,7	15,0	24	20
51050D71020M05	2x0,5	6,0	29,0	55	20
51050D71030M05	3x0,5	6,3	38,0	64	20
51050D71040M05	4x0,5	6,9	45,0	78	20
51050D71050M05	5x0,5	7,7	51,0	95	20
51050D71060M05	6x0,5	8,1	66,0	106	20
51050D71070M05	7x0,5	8,7	68,0	122	20
51050D71080M05	8x0,5	9,4	80,0	138	20
51050D71100M05	10x0,5	10,4	93,0	161	20
51050D71120M05	12x0,5	10,4	107,0	170	20
51050D71140M05	14x0,5	11,0	122,0	193	20
51050D71160M05	16x0,5	11,7	129,0	216	20
51050D71190M05	19x0,5	12,8	158,0	253	20
51050D71210M05	21x0,5	13,5	167,0	281	20
51050D7L010M07	1x0,75	4,0	18,0	29	19
51050D71020M07	2x0,75	6,7	38,0	71	19

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. *)
51050D71030M07	3x0,75	7,1	50,0	82	19
51050D71040M07	4x0,75	7,7	58,0	100	19
51050D71050M07	5x0,75	8,5	70,0	117	19
51050D71060M07	6x0,75	9,1	85,0	135	19
51050D71070M07	7x0,75	9,9	90,0	158	19
51050D71080M07	8x0,75	10,6	110,0	178	19
51050D71100M07	10x0,75	11,7	140,0	207	19
51050D71120M07	12x0,75	11,7	148,0	220	19
51050D71140M07	14x0,75	12,4	167,0	250	19
51050D71160M07	16x0,75	13,2	183,0	282	19
51050D71190M07	19x0,75	14,5	212,0	335	19
51050D71210M07	21x0,75	15,3	230,0	370	19
51050D7L010M10	1x1	4,3	1,7	63	18
51050D71020M10	2x1	7,2	31,0	78	18
51050D71030M10	3x1	7,7	56,0	92	18
51050D71040M10	4x1	8,3	66,0	112	18
51050D71050M10	5x1	9,0	95,0	134	18
51050D71060M10	6x1	10,0	105,0	164	18
51050D71070M10	7x1	10,9	109,0	192	18
51050D71080M10	8x1	11,6	130,0	219	18

Other dimensions and colours are possible on request.

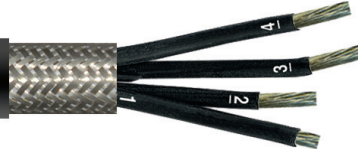
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51050D71100M10	10x1	12,8	138,0	254	18
51050D71120M10	12x1	12,8	164,0	270	18
51050D71140M10	14x1	13,5	198,0	308	18
51050D71160M10	16x1	14,3	203,0	350	18
51050D71190M10	19x1	16,2	235,0	447	18
51050D71210M10	21x1	17,0	257,0	492	18
51050E7L010M15	1x1,5	4,8	22,0	42	16
51050E71020M15	2x1,5	8,4	58,0	105	16
51050E71030M15	3x1,5	8,9	71,0	121	16
51050E71040M15	4x1,5	9,9	86,0	156	16
51050E71050M15	5x1,5	10,7	104,0	188	16
51050E71060M15	6x1,5	11,8	118,0	225	16
51050E71070M15	7x1,5	12,7	136,0	264	16
51050E71080M15	8x1,5	13,8	172,0	308	16
51050E71100M15	10x1,5	15,4	193,0	361	16
51050E71120M15	12x1,5	15,4	222,0	383	16
51050E71140M15	14x1,5	16,5	272,0	458	16
51050E71160M15	16x1,5	17,3	285,0	515	16
51050E71190M15	19x1,5	19,5	331,0	639	16
51050E71210M15	21x1,5	20,5	367,0	705	16
51050E7L010M25	1x2,5	5,6	28,0	59	14
51050E71020M25	2x2,5	9,9	96,0	148	14
51050E71030M25	3x2,5	10,5	146,0	183	14
51050E71040M25	4x2,5	11,5	150,0	221	14
51050E71050M25	5x2,5	12,8	200,0	273	14
51050E71060M25	6x2,5	13,9	227,0	326	14
51050E71070M25	7x2,5	15,5	235,0	397	14
51050E71080M25	8x2,5	16,8	265,0	475	14
51050E71100M25	10x2,5	18,4	326,0	542	14
51050E71120M25	12x2,5	18,4	376,0	582	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. *)
51050E71140M25	14x2,5	19,7	428,0	681	14
51050E71160M25	16x2,5	21,1	480,0	778	14
51050E71190M25	19x2,5	23,5	557,0	948	14
51050E71210M25	21x2,5	24,7	606,0	1042	14
51050E7L010M40	1x4	6,4	56,0	86	12
51050E71020M40	2x4	11,1	135,0	196	12
51050E71030M40	3x4	11,8	178,0	248	12
51050E71040M40	4x4	13,2	220,0	316	12
51050E71050M40	5x4	14,5	259,0	376	12
51050E71060M40	6x4	15,8	302,0	452	12
51050E71070M40	7x4	17,5	355,0	555	12
51050E71080M40	8x4	19,1	392,0	655	12
51050E71100M40	10x4	21,3	480,0	767	12
51050E71120M40	12x4	21,3	557,0	829	12
51050E71140M40	14x4	22,5	636,0	948	12
51050E7L010M60	1x6	7,0	81,0	100	10
51050E71020M60	2x6	12,4	175,0	255	10
51050E71030M60	3x6	13,3	240,0	330	10
51050E71040M60	4x6	14,9	305,0	429	10
51050E71050M60	5x6	16,3	441,0	536	10
51050E71060M60	6x6	17,9	473,0	624	10
51050E71070M60	7x6	19,9	505,0	751	10
51050E7L010M61	1x10	8,6	124,0	170	8
51050E71020M61	2x10	15,9	265,0	409	8
51050E71030M61	3x10	17,0	370,0	550	8
51050E71040M61	4x10	19,1	485,0	715	8
51050E71050M61	5x10	21,1	610,0	882	8
51050E71060M61	6x10	23,3	715,0	1026	8
51050E71070M61	7x10	25,2	820,0	1195	8

Other dimensions and colours are possible on request.