

# H07 ZZ-F control cable, cross linked, halogen-free



## Technical data

- halogen-free cross-linked control cable to DIN VDE 0282 part 13, HD 22.13 S1+A1
- **Temperature range**  
flexing -5°C to +70°C  
fixed installation -20°C to +70°C
- Permissible **operating temperature**  
at conductor +70°C
- **Nominal voltage**  
fixed installation  $U_0/U$  06/1 kV  
flexing  $U_0/U$  450/750 V
- **Test voltage** 2500 V
- **Permanent tensile load**  
max. 15 N/mm<sup>2</sup> under consideration of total copper cross-sections
- **Minimum bending radius**  
for fixed installation 4x cable Ø  
flexing 10x cable Ø

## Cable construction

- Bare copper, fine wire stranded conductor to DIN VDE 0295 cl. 5, BS 6360 cl. 5, and IEC 60228 cl. 5 and HD 383
- Core insulation cross-linked, halogen-free, EI8 to DIN VDE 0282 part 1 (HD 22.1 S3)
- Core colours to DIN VDE 0293-308
- Cores stranded in layers with optimal lay-lengt
- Outer jacket, cross-linked halogen-free EM8 to DIN VDE 0282 part 1 (HD 22.1 S3)
- Sheath colour black

## Properties

- **Test**  
Behaviour in fire to EN 50265-2-1 (VDE 0472 part 804) and HD 405.3 cat. C  
Corrosiveness of combustion gases to EN 50267-2-2  
Smoke density to HD 606  
Ozone resistant of single corethe insulation to EN 60811-2-1, HD 22.2

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Single and multicore sheathed cable, with low smoke and corrosive gas production in case of fire for interior use. Not suitable for continuous outside use. In this case, cable with a special tested covering should be used. Skin contact should be avoided when the cable is used in high temperatures.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37176	1 x 1,5	5,7 - 7,1	14,4	58,0	16
37177	1 x 2,5	6,3 - 7,9	24,0	71,0	14
37178	1 x 4	7,2 - 9,0	38,0	100,0	12
37179	1 x 6	7,9 - 9,8	58,0	130,0	10
37180	1 x 10	9,5 - 11,9	96,0	230,0	8
37181	1 x 16	10,8 - 13,4	154,0	290,0	6
37182	1 x 25	12,7 - 15,8	240,0	420,0	4
37183	1 x 35	14,3 - 17,9	336,0	530,0	2
37184	1 x 50	16,5 - 20,6	480,0	750,0	1
37185	1 x 70	18,6 - 23,3	672,0	960,0	2/0
37186	1 x 95	20,8 - 26,0	912,0	1250,0	3/0
37187	1 x 120	22,8 - 28,6	1152,0	1560,0	4/0
37188	1 x 150	25,2 - 31,4	1440,0	1900,0	300 kcmil
37189	1 x 185	27,6 - 34,4	1776,0	2300,0	350 kcmil
37190	1 x 240	30,6 - 38,3	2304,0	2950,0	500 kcmil
37191	1 x 300	33,5 - 41,9	2880,0	3600,0	600 kcmil
37192	1 x 400	37,4 - 46,8	3840,0	4600,0	750 kcmil
37193	1 x 500	41,3 - 52,0	4800,0	6000,0	1000 kcmil
37194	2 x 1	7,7 - 10,0	19,0	95,0	17
37195	2 x 1,5	8,5 - 11,0	29,0	119,0	16
37196	2 x 2,5	10,2 - 13,1	48,0	172,0	14
37197	2 x 4	11,8 - 15,1	77,0	239,0	12
37198	2 x 6	13,1 - 16,8	115,0	319,0	10
37199	2 x 10	17,7 - 22,6	192,0	572,0	8
37200	2 x 16	20,2 - 25,7	307,0	767,0	6
37201	2 x 25	24,3 - 30,7	480,0	1154,0	4

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37202	3 G 1	8,3 - 10,7	29,0	115,0	17
37203	3 G 1,5	9,2 - 11,9	43,0	144,0	16
37204	3 G 2,5	10,9 - 14,0	72,0	211,0	14
37205	3 G 4	12,7 - 16,2	115,0	290,0	12
37206	3 G 6	14,1 - 18,0	173,0	391,0	10
37207	3 G 10	19,1 - 24,2	288,0	706,0	8
37208	3 G 16	21,8 - 27,6	461,0	961,0	6
37209	3 G 25	26,1 - 33,0	720,0	1438,0	4
37210	3 G 35	29,3 - 37,1	1008,0	1814,0	2
37211	3 G 50	34,1 - 42,9	1440,0	2550,0	1
37212	3 G 70	38,4 - 48,3	2016,0	3210,0	2/0
37213	3 G 95	43,3 - 54,0	2736,0	4423,0	3/0
37214	3 G 120	47,4 - 60,0	3456,0	5405,0	4/0
37215	3 G 150	52,0 - 66,0	4320,0	6725,0	300 kcmil
37216	3 G 185	57,0 - 72,0	5328,0	8222,0	350 kcmil
37217	3 G 240	65,0 - 82,0	6192,0	10224,0	500 kcmil
37218	3 G 300	72,0 - 90,0	8640,0	12620,0	600 kcmil
37219	4 G 1	9,2 - 11,9	38,0	141,0	17
37220	4 G 1,5	10,2 - 13,1	58,0	176,0	16
37221	4 G 2,5	12,1 - 15,5	96,0	235,0	14
37222	4 G 4	14,0 - 17,9	154,0	365,0	12
37223	4 G 6	15,7 - 20,0	230,0	501,0	10
37224	4 G 10	20,9 - 26,5	384,0	872,0	8
37225	4 G 16	23,8 - 30,1	614,0	1194,0	6
37226	4 G 25	28,9 - 36,6	960,0	1822,0	4
37227	4 G 35	32,5 - 41,1	1344,0	2307,0	2
37228	4 G 50	37,7 - 47,5	1920,0	3253,0	1

Dimensions and specifications may be changed without prior notice.

Continuation ►

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Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37229	4 G 70	42,7 - 54,0	2688,0	4130,0	2/0
37230	4 G 95	48,4 - 61,0	3648,0	5720,0	3/0
37231	4 G 120	53,0 - 66,0	4608,0	6965,0	4/0
37232	4 G 150	58,0 - 73,0	5760,0	8644,0	300 kcmil
37233	4 G 185	64,0 - 80,0	7104,0	10598,0	350 kcmil
37234	4 G 240	72,0 - 91,0	9216,0	12100,0	500 kcmil
37235	4 G 300	80,0 - 101,0	11520,0	15200,0	600 kcmil
37236	5 G 1	10,2 - 13,1	48,0	170,0	17
37237	5 G 1,5	11,2 - 14,4	72,0	214,0	16
37238	5 G 2,5	13,3 - 17,0	120,0	316,0	14
37239	5 G 4	15,6 - 19,9	192,0	448,0	12
37240	5 G 6	17,5 - 22,2	288,0	607,0	10
37241	5 G 10	22,9 - 29,1	480,0	1075,0	8
37242	5 G 16	26,4 - 33,3	768,0	1480,0	6
37243	5 G 25	32,0 - 40,4	1200,0	2255,0	4
37244	6 G 1,5	13,4 - 17,2	84,0	287,0	16
37245	6 G 2,5	15,7 - 20,0	144,0	420,0	14
37246	6 G 4	18,2 - 23,2	230,0	583,0	12

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
37247	7 G 1,5	0,0 - 14,4	101,0	303,0	16
37248	7 G 2,5	0,0 - 17,0	168,0	448,0	14
37249	12 G 1,5	17,6 - 22,4	173,0	496,0	16
37250	12 G 2,5	20,6 - 26,2	288,0	724,0	14
37251	12 G 4	24,4 - 30,9	461,0	1042,0	12
37252	18 G 1,5	20,7 - 26,3	259,0	702,0	16
37253	18 G 2,5	24,4 - 30,9	432,0	1045,0	14
37254	18 G 4	28,8 - 36,4	691,0	1430,0	12
37255	24 G 1,5	24,3 - 30,7	346,0	935,0	16
37256	24 G 2,5	28,8 - 36,4	576,0	1325,0	14
37257	36 G 1,5	27,8 - 35,2	518,0	1297,0	16
37258	36 G 2,5	33,2 - 41,8	864,0	1949,0	14

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