

H07ZZ-F control cable, cross linked, halogen-free



Technical data

- halogen-free cross-linked control cable to DIN VDE 0285-525-3-21 / DIN EN 50525-3-21
- **Temperature range**
flexing -5°C to +70°C
fixed installation -20°C to +70°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage**
flexing U_0/U 450/750 V
fixed installation U_0/U 0,6/1 kV
- **Test voltage** 2500 V
- **Permanent tensile load**
max. 15 N/mm²
under consideration of
total copper cross-sections
- **Minimum bending radius**
flexing 10x cable Ø
for fixed installation 4x cable Ø

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5, HD 383
- Core insulation of halogen-free, cross-linked EI8 to DIN VDE 0207-363-5/DIN EN 50363-5
- Core identification to DIN VDE 0293-308
- Cores stranded in layers with optimal lay-length
- Outer sheath of halogen-free, cross-linked EM8 to DIN VDE 0207-363-6/DIN EN 50363-6
- Sheath colour black

Properties

Test

- Behaviour in fire to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 and IEC 60332-3-24
- Corrosiveness of combustion gases acc. to EN 50267-2-2
- Smoke density to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2
- Ozone resistant of single core the insulation to DIN VDE 0473-811-403 / DIN EN 60811-403

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. 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	18
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
37202	3 G 1	8,3 - 10,7	29,0	115,0	18
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

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
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	18
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
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	18
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
37247	7 G 1,5	11,4 - 14,4	101,0	303,0	16
37248	7 G 2,5	13,4 - 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

Dimensions and specifications may be changed without prior notice. (RF01)