H07ZZ-F

for heavy mechanical stress

TECHNICAL DATA

Control and connection cable acc. to DIN VDE 0285-525-3-21 / DIN EN 50525-3-21

Temperature range	flexible -5°C to +80°C fixed -20°C to +80°C
Permissible operating temperature of the conductor	+90°C
Nominal voltage	flexible AC U_0/U 450/750 V
Test voltage core/core	2500 V
Minimum bending radius	flexible 8x Outer-Ø fixed installation 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: rubber acc. to DIN VDE 0207-363-5 / DIN EN 50363-5 (compound type EI8)
- Core identification acc. to DIN VDE 0293-308,
  1 core(s): black
  2 - 5 core(s): colour coded
  6 - 36 core(s): black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
  G = with protective conductor GN-YE, in the outer layer,
  x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: rubber acc. to DIN VDE 0207-363-6 / DIN EN 50363-6 (compound type EM8)
- Sheath colour: black

PROPERTIES

- resistant to: ozone
- halogen-free

TESTS

- halogen-free acc. to DIN VDE 0285-525-1 / DIN EN 50525-1 appendix B
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403

APPLICATION

For use in dry, damp and wet rooms in commercial and agricultural workshops for connecting equipment where cables are subject to heavy mechanical loads. When laid in pipes or similar closed systems, the use of the cable is permitted up to and including 1000 V AC or 750 V DC against earth.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
37176	1 x 1.5	16	5.7 - 7.1	14.4	58.0
37177	1 x 2.5	14	6.3 - 7.9	24.0	71.0
37178	1 x 4	12	7.2 - 9.0	38.0	100.0
37179	1 x 6	10	7.9 - 9.8	58.0	130.0
37180	1 x 10	8	9.5 - 11.9	96.0	230.0
37181	1 x 16	6	10.8 - 13.4	154.0	290.0
37182	1 x 25	4	12.7 - 15.8	240.0	420.0
37183	1 x 35	2	14.3 - 17.9	336.0	530.0
37184	1 x 50	1	16.5 - 20.6	480.0	750.0
37185	1 x 70	2/0	18.6 - 23.3	672.0	960.0
37186	1 x 95	3/0	20.8 - 26.0	912.0	1250.0
37187	1 x 120	4/0	22.8 - 28.6	1152.0	1560.0
37188	1 x 150	300 kcmil	25.2 - 31.4	1440.0	1900.0
37189	1 x 185	350 kcmil	27.6 - 34.4	1776.0	2300.0
37190	1 x 240	500 kcmil	30.6 - 38.3	2304.0	2950.0
37191	1 x 300	600 kcmil	33.5 - 41.9	2880.0	3600.0
37192	1 x 400	750 kcmil	37.4 - 46.8	3840.0	4600.0
37193	1 x 500	1000 kcmil	41.3 - 52.0	4800.0	6000.0
37194	2 x 1	18	7.7 - 10.0	19.0	95.0
37195	2 x 1.5	16	8.5 - 11.0	29.0	119.0
37196	2 x 2.5	14	10.2 - 13.1	48.0	172.0
37197	2 x 4	12	11.8 - 15.1	77.0	239.0
37198	2 x 6	10	13.1 - 16.8	115.0	319.0
37199	2 x 10	8	17.7 - 22.6	192.0	572.0
37200	2 x 16	6	20.2 - 25.7	307.0	767.0
37201	2 x 25	4	24.3 - 30.7	480.0	1154.0
37202	3 G 1	18	8.3 - 10.7	29.0	115.0
37203	3 G 1.5	16	9.2 - 11.9	43.0	144.0
37204	3 G 2.5	14	10.9 - 14.0	72.0	211.0
37205	3 G 4	12	12.7 - 16.2	115.0	290.0
37206	3 G 6	10	14.1 - 18.0	173.0	391.0
37207	3 G 10	8	19.1 - 24.2	288.0	706.0
37208	3 G 16	6	21.8 - 27.6	461.0	961.0
37209	3 G 25	4	26.1 - 33.0	720.0	1438.0
37210	3 G 35	2	29.3 - 37.1	1008.0	1814.0
37211	3 G 50	1	34.1 - 42.9	1440.0	2550.0
37212	3 G 70	2/0	38.4 - 48.3	2016.0	3210.0
37213	3 G 95	3/0	43.3 - 54.0	2736.0	4423.0
37214	3 G 120	4/0	47.4 - 60.0	3456.0	5405.0
37215	3 G 150	300 kcmil	52.0 - 66.0	4320.0	6725.0
37216	3 G 185	350 kcmil	57.0 - 72.0	5328.0	8222.0
37217	3 G 240	500 kcmil	65.0 - 82.0	6192.0	10224.0
37218	3 G 300	600 kcmil	72.0 - 90.0	8640.0	12620.0
37219	4 G 1	18	9.2 - 11.9	38.0	141.0
37220	4 G 1.5	16	10.2 - 13.1	58.0	176.0
37221	4 G 2.5	14	12.1 - 15.5	96.0	235.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
37222	4 G 4	12	14.0 - 17.9	154.0	365.0
37223	4 G 6	10	15.7 - 20.0	230.0	501.0
37224	4 G 10	8	20.9 - 26.5	384.0	872.0
37225	4 G 16	6	23.8 - 30.1	614.0	1194.0
37226	4 G 25	4	28.9 - 36.6	960.0	1822.0
37227	4 G 35	2	32.5 - 41.1	1344.0	2307.0
37228	4 G 50	1	37.7 - 47.5	1920.0	3253.0
37229	4 G 70	2/0	42.7 - 54.0	2688.0	4130.0
37230	4 G 95	3/0	48.4 - 61.0	3648.0	5720.0
37231	4 G 120	4/0	53.0 - 66.0	4608.0	6965.0
37232	4 G 150	300 kcmil	58.0 - 73.0	5760.0	8644.0
37233	4 G 185	350 kcmil	64.0 - 80.0	7104.0	10598.0
37234	4 G 240	500 kcmil	72.0 - 91.0	9216.0	12100.0
37235	4 G 300	600 kcmil	80.0 - 101.0	11520.0	15200.0
37236	5 G 1	18	10.2 - 13.1	48.0	170.0
37237	5 G 1.5	16	11.2 - 14.4	72.0	214.0
37238	5 G 2.5	14	13.3 - 17.0	120.0	316.0
37239	5 G 4	12	15.6 - 19.9	192.0	448.0
37240	5 G 6	10	17.5 - 22.2	288.0	607.0
37241	5 G 10	8	22.9 - 29.1	480.0	1075.0
37242	5 G 16	6	26.4 - 33.3	768.0	1480.0
37243	5 G 25	4	32.0 - 40.4	1200.0	2255.0
37244	6 G 1.5	16	13.4 - 17.2	84.0	287.0
37245	6 G 2.5	14	15.7 - 20.0	144.0	420.0
37246	6 G 4	12	18.2 - 23.2	230.0	583.0
37247	7 G 1.5	16	14.7 - 18.7	101.0	303.0
37248	7 G 2.5	14	17.1 - 21.8	168.0	448.0
37249	12 G 1.5	16	17.6 - 22.4	173.0	496.0
37250	12 G 2.5	14	20.6 - 26.2	288.0	724.0
37251	12 G 4	12	24.4 - 30.9	461.0	1042.0
37252	18 G 1.5	16	20.7 - 26.3	259.0	702.0
37253	18 G 2.5	14	24.4 - 30.9	432.0	1045.0
37254	18 G 4	12	28.8 - 36.4	691.0	1430.0
37255	24 G 1.5	16	24.3 - 30.7	346.0	935.0
37256	24 G 2.5	14	28.8 - 36.4	576.0	1325.0
37257	36 G 1.5	16	27.8 - 35.2	518.0	1297.0
37258	36 G 2.5	14	33.2 - 41.8	864.0	1949.0