

# H05 BQ-F / H07 BQ-F (NGMH11YÖ)



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## Technical data

- EPR/PUR-insulated power cable according to DIN VDE 0282 part 10 and HD 22.10 S1
- **Temperature range**  
flexing -40 °C to +80 °C  
fixed installation -50 °C to +90 °C
- Permissible **operating temperature** at conductor 90 °C
- **Nominal voltage** a.c., 50 Hz  
H05BQ-F: U<sub>0</sub>/U 300/500 V up to 1 mm<sup>2</sup>  
H07BQ-F: U<sub>0</sub>/U 450/750 V as of 1,5 mm<sup>2</sup>
- **Test voltage**  
H05BQ-F: 2000 V up to 1 mm<sup>2</sup>  
H07BQ-F: 2500 V as of 1,5 mm<sup>2</sup>
- **Minimum bending radius**  
flexing 5x cable ø  
fixed installation 3x cable ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Plain copper conductor, stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and HD 383 cl. 5
- Insulating jacket of rubber, compound EI6 according to DIN VDE 0282 part 1
- Core identification according to DIN VDE 0293-308 and HD308 S2
- Green-yellow earth core in the outer layer
- Cores stranded in layers with optimal lay-length (inner fill compound permissible)
- PUR-insulated outer jacket TMPU, to DIN EN 50363-10-2
- Colour orange (RAL 2003)
- Minimum imprinted designation BQ

## Properties

- Abrasion resistant
- Notch resistant
- Resistant to tearing and cutting
- **Resistant to**  
Oils, fats, Petrol  
Water and weathering effects  
Oxygene and ozone  
UV-radiation, Hydrolysis and Microbial attack
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core.
- 7 G 1,5 mm<sup>2</sup> and 12 G 1,5 mm<sup>2</sup> are not contained in VDE, adapted to VDE, (H)07BQ.

## Application

These cables can be used for medium mechanical loads in dry, damp or wet environments, e.g. for connecting agricultural and commercial equipment and heaters provided there is no danger of contact with the hot parts or by radiation of heat. These robust and flexible cables are used for electrical tools such as drills and hand-held circular saws, as well as for portable motors and machinery in agriculture, at building sites, docks and refrigeration plants.

CE – The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

### H05BQ-F

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22050	2 x 0,75	5,7 - 7,4	14,4	52,0	18
22051	3 G 0,75	6,2 - 8,1	21,6	63,0	18
22052	4 G 0,75	6,8 - 8,8	29,0	80,0	18
22053	5 G 0,75	7,6 - 9,9	36,0	96,0	18
22054	2 x 1	6,1 - 8,0	19,2	59,0	17
22055	3 G 1	6,5 - 8,5	29,0	71,0	17
22056	4 G 1	7,1 - 9,3	38,4	89,0	17
22057	5 G 1	8,0 - 10,3	48,0	112,0	17

### H07BQ-F

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22058	2 x 1,5	7,6 - 9,8	29,0	92,0	16
22059	3 G 1,5	8,0 - 10,4	43,0	109,0	16
22060	4 G 1,5	9,0 - 11,6	58,0	145,0	16
22061	5 G 1,5	9,8 - 12,7	72,0	169,0	16
22062	7 G 1,5	12,5 - 16,3	101,0	230,0	16
22063	12 G 1,5	16,5 - 21,5	173,0	398,0	16
22064	2 x 2,5	9,0 - 11,6	48,0	121,0	14
22065	3 G 2,5	9,6 - 12,4	72,0	164,0	14
22066	4 G 2,5	10,7 - 13,8	96,0	207,0	14
22067	5 G 2,5	11,9 - 15,3	120,0	262,0	14
22072	2 x 4	10,6 - 13,7	77,0	194,0	12
22068	3 G 4	11,3 - 14,5	115,0	224,0	12
22069	4 G 4	12,7 - 16,2	154,0	327,0	12
22080	5 G 4	14,1 - 17,9	192,0	415,0	12
22073	2 x 6	11,8 - 15,1	115,0	311,0	10
22070	3 G 6	12,8 - 16,3	173,0	310,0	10
22071	4 G 6	14,2 - 18,1	230,0	496,0	10
22081	5 G 6	15,7 - 20,0	288,0	586,0	10

### H07BQ-F

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22074	2 x 10	15,6 - 19,9	192,0	428,0	8
22076	3 G 10	16,8 - 21,4	288,0	640,0	8
22078	4 G 10	18,6 - 23,6	384,0	738,0	8
22082	5 G 10	20,4 - 25,9	480,0	968,0	8
22075	2 x 16	17,9 - 22,8	307,0	600,0	6
22077	3 G 16	19,5 - 24,7	461,0	758,0	6
22079	4 G 16	21,3 - 27,0	614,0	1187,0	6
22083	5 G 16	23,7 - 30,0	768,0	1475,0	6
22828	4 G 25	26,8 - 31,9	960,0	1550,0	16
22829	5 G 25	29,0 - 35,0	1220,0	1920,0	16
22830	4 G 35	29,0 - 35,0	1344,0	2120,0	16
22831	5 G 35	33,3 - 39,7	1680,0	2600,0	16
22832	4 G 50	34,8 - 41,2	1920,0	2920,0	16
22833	5 G 50	39,7 - 46,7	2400,0	3700,0	16
22835	4 G 70	39,5 - 46,5	2688,0	3900,0	16
22836	5 G 70	46,3 - 53,3	3368,0	5020,0	16
22837	4 G 95	45,5 - 52,5	3648,0	5150,0	16
22838	5 G 95	52,0 - 60,0	4560,0	6520,0	16
22839	4 G 120	51,5 - 60,5	4608,0	6550,0	16
22840	5 G 120	56,7 - 65,7	5760,0	8050,0	16
22841	4 G 150	56,3 - 65,3	5760,0	7950,0	16
22842	5 G 185	59,5 - 68,5	7104,0	9350,0	16
22843	4 G 240	68,3 - 77,3	9216,0	12200,0	16

Dimensions and specifications may be changed without prior notice. (RA02)