

# H05BQ-F / H07BQ-F (NGMH11YÖ)



## Technical data

- EPR/PUR-insulated power cable acc. to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21
- Temperature range**  
flexing -40°C to +80°C  
fixed installation -50°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- Nominal voltage**  
H05BQ-F U<sub>0</sub>/U 300/500 V  
H07BQ-F U<sub>0</sub>/U 450/750 V
- Test voltage**  
H05BQ-F 2000 V  
H07BQ-F 2500 V
- 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

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of rubber compound type EI6 to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification to DIN VDE 0293-308
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length (inner fill compound permissible \*)
- Outer sheath of PUR compound type TMPU to DIN EN 50363-10-2
- Sheath colour orange (RAL 2003)

## Properties

- Abrasion resistant
- Notch resistant
- Resistant to tearing and cutting
- Resistant to**  
Oils, fats, Petrol  
Water and weathering effects  
Oxygen 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 conductor  
x = without green-yellow conductor
- adapted to VDE  
7G1,5 mm<sup>2</sup>, 12G1,5 mm<sup>2</sup> and cross-section > 16 mm<sup>2</sup> designation 07BQ-F
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- \*) Version with filler compound

## 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/EC.

### H05BQ-F

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

### H07BQ-F

Part no. *)	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22074	220974 2 x 10	15,6 - 19,9	192,0	428,0	8
22076	220976 3 G 10	16,8 - 21,4	288,0	640,0	8
22078	220978 4 G 10	18,6 - 23,6	384,0	738,0	8
22082	220982 5 G 10	20,4 - 25,9	480,0	968,0	8
22075	220975 2 x 16	17,9 - 22,8	307,0	600,0	6
22077	220977 3 G 16	19,5 - 24,7	461,0	758,0	6
22079	220979 4 G 16	21,3 - 27,0	614,0	1187,0	6
22083	220983 5 G 16	23,7 - 30,0	768,0	1475,0	6
22828	228928 4 G 25	26,7 - 32,6	960,0	1550,0	4
22829	228929 5 G 25	29,6 - 36,1	1220,0	1920,0	4
22830	228930 4 G 35	31,3 - 38,2	1344,0	2120,0	2
22831	228931 5 G 35	34,5 - 42,0	1680,0	2600,0	2
22832	228932 4 G 50	34,9 - 42,6	1920,0	2920,0	1
22833	228933 5 G 50	38,6 - 47,0	2400,0	3700,0	1
22835	228935 4 G 70	38,9 - 47,3	2688,0	3900,0	2/0
22836	228936 5 G 70	43,0 - 52,3	3368,0	5020,0	2/0
22837	228937 4 G 95	44,9 - 54,6	3648,0	5150,0	3/0
22838	228938 5 G 95	49,7 - 60,4	4560,0	6520,0	3/0
22839	228939 4 G 120	47,9 - 58,2	4608,0	6550,0	4/0
22840	228940 5 G 120	53,1 - 64,5	5760,0	8050,0	4/0
22841	228941 4 G 150	53,5 - 65,0	5760,0	7950,0	300 kcmil
22842	228942 5 G 185	65,6 - 79,6	7104,0	9350,0	350 kcmil
22843	228943 4 G 240	68,1 - 82,6	9216,0	12200,0	500 kcmil

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22058	220958 2 x 1,5	7,6 - 9,8	29,0	92,0	16
22059	220959 3 G 1,5	8,0 - 10,4	43,0	109,0	16
22060	220960 4 G 1,5	9,0 - 11,6	58,0	145,0	16
22061	220961 5 G 1,5	9,8 - 12,7	72,0	169,0	16
22062	220962 7 G 1,5	12,2 - 15,1	101,0	230,0	16
22063	220963 12 G 1,5	15,0 - 18,4	173,0	398,0	16
22064	220964 2 x 2,5	9,0 - 11,6	48,0	121,0	14
22065	220965 3 G 2,5	9,6 - 12,4	72,0	164,0	14
22066	220966 4 G 2,5	10,7 - 13,8	96,0	207,0	14
22067	220967 5 G 2,5	11,9 - 16,3	120,0	262,0	14
22072	220972 2 x 4	10,6 - 13,7	77,0	194,0	12
22068	220968 3 G 4	11,3 - 14,5	115,0	224,0	12
22069	220969 4 G 4	12,7 - 16,2	154,0	327,0	12
22080	220980 5 G 4	14,1 - 17,9	192,0	415,0	12
22073	220973 2 x 6	11,8 - 15,1	115,0	311,0	10
22070	220970 3 G 6	12,8 - 16,3	173,0	310,0	10
22071	220971 4 G 6	14,2 - 18,1	230,0	496,0	10
22081	220981 5 G 6	15,7 - 20,0	288,0	586,0	10

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