



## H05BQ-F / H07BQ-F (NGMH11YÖ)

### Application and Description

These cables are used for medium mechanical stress in dry, damp or wet areas, e.g. for connecting agricultural and commercial equipment, for connecting heaters where there is a danger of cable damage due to its contact with hot surfaces. The cable can also be used in electrical appliances such as drills, hand-held circular saws as well as in building sites and refrigeration plants. H07BQ-F can commonly be found in other machinery in agriculture, building sites, docks and refrigeration plants. The robust PUR jacket adds abrasion, notch and tear resistance as well as chemical resistance to oils, fats, petrol, water, ozone, UV radiation, hydrolysis and microbes. Common European designation is NGMH11YÖ.

### Standard and Approval

<HAR> HD22.10 S1, VDE-0282 Part-10, CEI 20-19 p.10, CE low voltage directive 73/23/EEC & 93/68/EEC., IEC 60245-4, ROHS compliant

### Cable Construction

- Fine bare or tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 and HD383 Class-5
- Rubber compound insulation E16 to VDE-0282 Part-1
- Color coded to VDE-0293-308
- Conductors stranded in layers with optimal lay-length
- Green-yellow earth core in the outer layer
- Polyurethane/PUR outer jacket TPU- orange (RAL 2003)

### Technical Characteristics

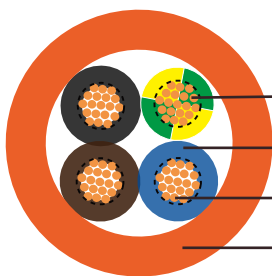
- Working voltage: 300/500 volts(H05BQ-F), 450/750 volts(H07BQ-F)
- Test voltage: 2000 volts(H05BQ-F), 2500 volts(H07BQ-F)
- Flexing bending radius: 5 x Ø
- Fixed bending radius: 3 x Ø
- Flexing Temperature: -40° C to +80° C
- Fixed Temperature: -50° C to +90° C
- Short circuit Temperature: +250° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km



## Harmonized Code

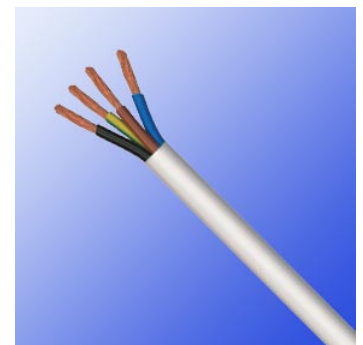
### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Weight kg/km
H05BQ-F						
18(24/32)	2 x 0.75	0.6	0.8	5.7 - 7.4	14.4	52
18(24/32)	3 x 0.75	0.6	0.9	6.2 - 8.1	21.6	63
18(24/32)	4 x 0.75	0.6	0.9	6.8 - 8.8	29	80
18(24/32)	5 x 0.75	0.6	1.0	7.6 - 9.9	36	96
17(32/32)	2 x 1	0.6	0.9	6.1 - 8.0	19.2	59
17(32/32)	3 x 1	0.6	0.9	6.5 - 8.5	29	71
17(32/32)	4 x 1	0.6	0.9	7.1 - 9.3	38.4	89
17(32/32)	5 x 1	0.6	1.0	8.0 - 10.3	48	112
H07BQ-F						
16(30/30)	2 x 1.5	0.8	1.0	7.6 - 9.8	29	92
16(30/30)	3 x 1.5	0.8	1.0	8.0 - 10.4	43	109
16(30/30)	4 x 1.5	0.8	1.1	9.0 - 11.6	58	145
16(30/30)	5 x 1.5	0.8	1.1	9.8 - 12.7	72	169
14(50/30)	2 x 2.5	0.9	1.1	13.0 - 15.0	101	230
14(50/30)	3 x 2.5	0.9	1.1	17.0 - 20.0	173	398
14(50/30)	4 x 2.5	0.9	1.2	9.0 - 11.6	48	121
14(50/30)	5 x 2.5	0.9	1.3	9.6 - 12.4	72	164
12(56/28)	2 x 4	1.0	1.2	10.7 - 13.8	96	207
12(56/28)	3 x 4	1.0	1.2	11.9 - 15.3	120	262
12(56/28)	4 x 4	1.0	1.3	10.6 - 13.7	77	194
12(56/28)	5 x 4	1.0	1.4	11.3 - 14.5	115	224
10(84/28)	2 x 6	1.0	1.3	12.7 - 16.2	154	327
10(84/28)	3 x 6	1.0	1.4	14.1 - 17.9	192	415
10(84/28)	4 x 6	1.0	1.5	11.8 - 15.1	115	311
10(84/28)	5 x 6	1.0	1.6	12.8 - 16.3	173	310



- Green/Yellow wire
- LSOH cross-link polyolefin insulation
- Bare copper conductor
- Polyurethane/PUR outer jacket

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