



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

HD22.10 S1, VDE-0282 Part-10

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 TMPU- orange (RAL 2003)

Technical Characteristics

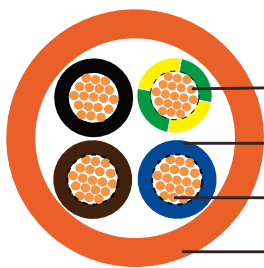
- Working voltage: 300/500 volts(H05BQ-F), 450/750 volts(H07BQ-F)
- Test voltage: 2000 volts(H05BQ-F), 2500 volts(H07BQ-F)
- Flexing bending radius: 5 x Ø
- Fixed bending radius: 3 x Ø
- Flexing Temperature: -40° C to +80° C
- Fixed Temperature: -50° C to +90° C
- Short circuit Temperature: +250° C
-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



German Standard (VDE)

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	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	9.0 - 11.6	101	121
14(50/30)	3 x 2.5	0.9	1.1	9.6 - 12.4	173	164
14(50/30)	4 x 2.5	0.9	1.2	10.7 - 13.8	48	207
14(50/30)	5 x 2.5	0.9	1.3	11.9 - 15.3	72	262
12(56/28)	2 x 4	1.0	1.2	10.6 - 13.7	96	194
12(56/28)	3 x 4	1.0	1.2	11.3 - 14.5	120	224
12(56/28)	4 x 4	1.0	1.3	12.7 - 16.2	77	327
12(56/28)	5 x 4	1.0	1.4	14.1 - 17.9	115	415
10(84/28)	2 x 6	1.0	1.3	11.8 - 15.1	154	311
10(84/28)	3 x 6	1.0	1.4	12.8 - 16.3	192	310
10(84/28)	4 x 6	1.0	1.5	14.2 - 18.1	115	310
10(84/28)	5 x 6	1.0	1.6	15.7 - 20.0	173	496



- Green/Yellow wire
- Rubber compound insulation
- Stranded copper conductor
- TMPU outer jacket

H07BQ-F



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