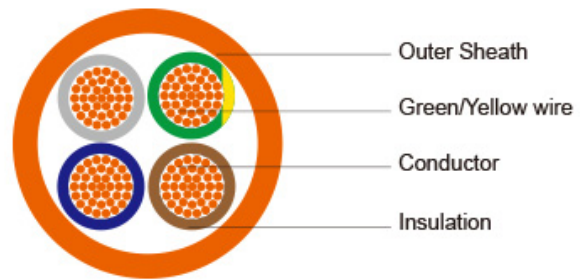


## German Standard Industrial Cables H05BQ-F/H07BQ-F(NGMH11YÖ)

**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

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 earthed 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

**Cable Parameter**

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL THICKNESS OF SHEATH	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM <sup>2</sup>	MM	MM	MM	KG/KM	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