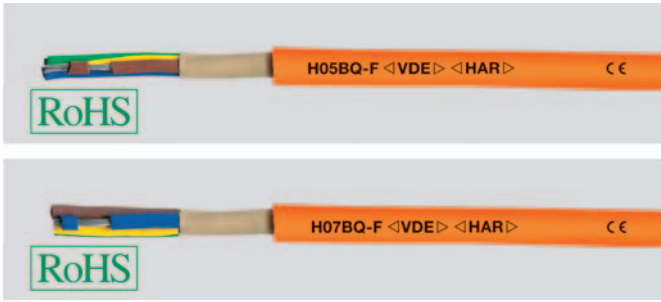


H05 BQ-F / H07 BQ-F* (NGMH11YÖ) EPR-insulated

power cables with PUR jacket



A



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_0/U 300/500 V up to 1 mm²
H07BQ-F: U_0/U 450/750 V as of 1,5 mm²
- Test voltage**
H05BQ-F: 2000 V up to 1 mm²
H07BQ-F: 2500 V as of 1,5 mm²
- Minimum bending radius**
flexing 5x cable \varnothing
fixed installation 3x cable \varnothing
- Radiation resistance**
up to 100x10⁶ 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 protection sheath permissible)
- PUR-insulated outer jacket TPU, to DIN VDE 0282 part 10, appendix A
- Colour orange (RAL 2003)
- Minimum imprinted designation BQ

Properties

- Abrasion resistant
- Notch resistant
- Resistant to tearing and cutting
- Good flexibility at low temperatures down to -40°C
- Resistant to**
Oils and fats
Petrol
Water and weathering effects
Oxygen and ozone
UV-radiation
Hydrolysis
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.
- These harmonized types H05BQ-F and H07BQ-F replace the VDE-standardised types.
- 7 G 1,5 mm² and 12 G 1,5 mm² 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 ² | Outer \varnothing min - max ca. mm | Cop. weight kg / km | Weight ca. 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 ² | Outer \varnothing min - max ca. mm | Cop. weight kg / km | Weight ca. 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 | 13,0 - 15,0 | 101,0 | 230,0 | 16 |
| 22063 | 12 G 1,5 | 17,0 - 20,0 | 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 |

H07BQ-F*

| Part No. | No. cores x cross-sec. mm ² | Outer \varnothing min - max ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|----------------------------------------|--------------------------------------|---------------------|--------------------|---------|
| 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 |
| 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 |

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