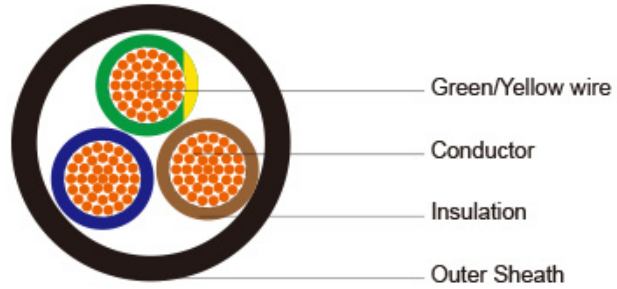


German Standard Industrial Cables H07BN4-F WIND90



Application and Description

These cables are made with synthetic rubbers having an excellent temperature resistance and can be used either in dry, humid or wet places or in contact with oil or grease, in weather conditions and under medium mechanical stress, for example power supply to equipment in industrial plants, large size boilers, heating plates, portable lamps, electrical tools such as drilling machines, disk saws, portable engines and machines, building and farming equipments etc.

These cables are also suitable for stationary equipments, for example designed for wind-tower application, the particular conductor Cable Construction and the used materials have improved the cable torsion resistance (max 150°/m), key requirement for drop cables in windgenerators, on plaster in temporary buildings and builders huts, and wiring in machinery elevators or similar.

Suitable for caravans and camping equipment. Especially recommended for service temperature up to 90°C together with good resistance to hot grease and oil. Therefore these cables are ideal for use in plants and industries dealing with grease, oil or oil emulsion treatments, transformation or handling.

Standard and Approval

NF C 32-102-12
ROHS compliant

Cable Construction

Fine bare copper strands
Strands to VDE-0295 Class-5, IEC 60228 Class-5
EPR(Ethylene Propylene Rubber) rubber EI7 insulation
Color code VDE-0293-308
Special polychloroprene rubber outer jacket EM7

Technical Characteristics

WORKING VOLTAGE: 450/750 volts
TEST VOLTAGE: 2500 volts
FLEXING BENDING RADIUS: 6.0 x Ø
FIXED BENDING RADIUS: 4.0 x Ø
TEMPERATURE RANGE: -40°C to +90°C
WIND ENERGY: -15°C to +90°C
MAXIMUM SHORT CIRCUIT TEMPERATURE: +250°C
FLAME RETARDANT: NF C 32-070C2/NF C 32-070
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 WEIGHT |
|-----|---|---------------------------------------|-----------------------------------|--------------------------------|-------------------|
| | # X MM ² | MM | MM | MM | KG/KM |

| | | | | | |
|-----------|----------|-----|-----|------|------|
| 17(32/32) | 2 x 1 | 0.8 | 1.3 | 8.2 | 93 |
| 17(32/32) | 3 x 1 | 0.8 | 1.4 | 8.9 | 114 |
| 17(32/32) | 4 x 1 | 0.8 | 1.5 | 9.8 | 139 |
| 16(30/30) | 1 x 1.5 | 0.8 | 1.4 | 5.9 | 50 |
| 16(30/30) | 2 x 1.5 | 0.8 | 1.5 | 9.3 | 118 |
| 16(30/30) | 3 x 1.5 | 0.8 | 1.6 | 10.0 | 144 |
| 16(30/30) | 4 x 1.5 | 0.8 | 1.7 | 11.0 | 177 |
| 16(30/30) | 5 x 1.5 | 0.8 | 1.8 | 12.1 | 226 |
| 16(30/30) | 7 x 1.5 | 0.8 | 2.6 | 14.7 | 385 |
| 16(30/30) | 12 x 1.5 | 0.8 | 2.9 | 18.8 | 516 |
| 16(30/30) | 19 x 1.5 | 0.8 | 3.2 | 22.0 | 800 |
| 16(30/30) | 24 x 1.5 | 0.8 | 3.5 | 25.7 | 882 |
| 14(50/30) | 1 x 2.5 | 0.9 | 1.4 | 6.5 | 65 |
| 14(50/30) | 2 x 2.5 | 0.9 | 1.7 | 10.9 | 172 |
| 14(50/30) | 3 x 2.5 | 0.9 | 1.8 | 11.7 | 210 |
| 14(50/30) | 4 x 2.5 | 0.9 | 1.9 | 12.8 | 257 |
| 14(50/30) | 5 x 2.5 | 0.9 | 2 | 14.1 | 329 |
| 14(50/30) | 7 x 2.5 | 0.9 | 2.8 | 17.1 | 445 |
| 14(50/30) | 12 x 2.5 | 0.9 | 3.1 | 22.1 | 702 |
| 14(50/30) | 19 x 2.5 | 0.9 | 3.5 | 26.0 | 1030 |
| 14(50/30) | 24 x 2.5 | 0.9 | 3.9 | 30.4 | 1312 |
| 12(56/28) | 1 x 4 | 1 | 1.5 | 7.4 | 89 |
| 12(56/28) | 2 x 4 | 1 | 1.8 | 12.6 | 238 |
| 12(56/28) | 3 x 4 | 1 | 1.9 | 13.5 | 292 |
| 12(56/28) | 4 x 4 | 1 | 2 | 14.8 | 359 |
| 12(56/28) | 5 x 4 | 1 | 2.2 | 16.3 | 422 |
| 12(56/28) | 7 x 4 | 1 | 3.1 | 19.6 | 618 |
| 10(84/28) | 1 x 6 | 1 | 1.6 | 8.1 | 115 |
| 10(84/28) | 2 x 6 | 1 | 1.8 | 13.8 | 282 |
| 10(84/28) | 3 x 6 | 1 | 2.1 | 14.8 | 355 |
| 10(84/28) | 4 x 6 | 1 | 2.3 | 16.4 | 449 |
| 10(84/28) | 5 x 6 | 1.2 | 3.6 | 18.1 | 567 |
| 8(80/26) | 1 x 10 | 1.2 | 1.8 | 10.4 | 190 |
| 8(80/26) | 2 x 10 | 1.2 | 2.3 | 19.4 | 539 |
| 8(80/26) | 3 x 10 | 1.2 | 3.3 | 20.7 | 674 |
| 8(80/26) | 4 x 10 | 1.2 | 3.4 | 22.6 | 833 |
| 8(80/26) | 5 x 10 | 1.2 | 3.6 | 24.8 | 1010 |
| 6(128/26) | 1 x 16 | 1.2 | 1.9 | 11.6 | 259 |

| | | | | | |
|----------------------|---------|-----|-----|------|-------|
| 6(128/26) | 2 x 16 | 1.2 | 2.8 | 21.8 | 722 |
| 6(128/26) | 3 x 16 | 1.2 | 3.5 | 23.3 | 913 |
| 6(128/26) | 4 x 16 | 1.2 | 3.6 | 25.4 | 1138 |
| 6(128/26) | 5 x 16 | 1.2 | 3.9 | 28.1 | 1400 |
| 4(200/26) | 1 x 25 | 1.4 | 2 | 13.7 | 375 |
| 4(200/26) | 2 x 25 | 1.4 | 3.3 | 25.9 | 1043 |
| 4(200/26) | 4 x 25 | 1.4 | 4.1 | 30.8 | 1714 |
| 4(200/26) | 5 x 25 | 1.4 | 4.4 | 33.9 | 2096 |
| 2(280/26) | 1 x 35 | 1.4 | 2.2 | 15.4 | 492 |
| 2(280/26) | 3 x 35 | 1.4 | 4.1 | 31.0 | 1745 |
| 2(280/26) | 4 x 35 | 1.4 | 4.4 | 34.3 | 2204 |
| 2(280/26) | 5 x 35 | 1.4 | 4.7 | 39.6 | 2810 |
| 1(400/26) | 1 x 50 | 1.6 | 2.4 | 17.7 | 675 |
| 1(400/26) | 3 x 50 | 1.6 | 3.6 | 35.8 | 2409 |
| 1(400/26) | 4 x 50 | 1.6 | 4.8 | 39.6 | 3029 |
| 1(400/26) | 5 x 50 | 1.6 | 5.1 | 44.1 | 4050 |
| 2/0(356/24) | 1 x 70 | 1.6 | 2.6 | 20.0 | 908 |
| 2/0(356/24) | 3 x 70 | 1.6 | 4.2 | 40.5 | 3211 |
| 2/0(356/24) | 4 x 70 | 1.6 | 5.2 | 44.9 | 4121 |
| 3/0(485/24) | 1 x 95 | 1.8 | 2.8 | 22.1 | 1171 |
| 3/0(485/24) | 3 x 95 | 1.8 | 4.8 | 45.1 | 4210 |
| 3/0(485/24) | 4 x 95 | 1.8 | 5.9 | 50.4 | 5361 |
| 4/0(614/24) | 1x 120 | 1.8 | 3 | 24.5 | 1445 |
| 4/0(614/24) | 3 x 120 | 1.8 | 4.8 | 49.9 | 5205 |
| 4/0(614/24) | 4 x 120 | 1.8 | 6 | 55.3 | 6546 |
| 300 MCM (765/24) | 1 x 150 | 2 | 3.2 | 26.9 | 1783 |
| 300 MCM (765/24) | 3 x 150 | 2 | 5.2 | 54.8 | 6389 |
| 300 MCM (765/24) | 4 x 150 | 2 | 6.4 | 60.9 | 8095 |
| 350 MCM (944/24) | 1 x 185 | 2.2 | 3.4 | 28.9 | 2125 |
| 350 MCM (944/24) | 4 x 185 | 2.2 | 6.8 | 65.7 | 9652 |
| 500 MCM (1221/24) | 1x 240 | 2.4 | 3.5 | 32.6 | 2733 |
| 500 MCM (1221/24) | 4x 240 | 2.4 | 7.2 | 75.5 | 12614 |

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|---|---------|-----|-----|------|------|
| - | 1 x 300 | 2.6 | 3.6 | 36.5 | 3348 |
|---|---------|-----|-----|------|------|