



H07BN4-F WIND90

Application and Description

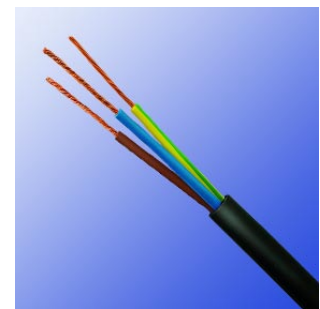
These cables are made with synthetic rubbers having an excellent temperature resistance and can be used either in dry, humid or wet places or in contact with oil or grease, in weather conditions and under medium mechanical stress, for example power supply to equipment in industrial plants, large size 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 wind-generators, 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

CENELEC HD 22.12 S1, VDE-0282 Part-12, IEC 60245-4, IEC 60754-1/2, ROHS compliant

Cable Construction

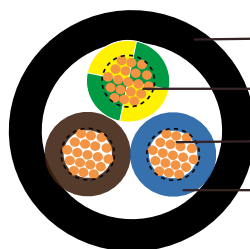
- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- EPR(Ethylene Propylene Rubber) rubber EI7 insulation
- Color code VDE-0293-308
- Special polychloroprene rubber outer jacket EM7



H07BN4-F

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



- Polychloroprene rubber outer jacket
- Green/Yellow wire
- Bare copper conductor
- EPR insulation

H07BN4-F



German Standard (VDE)

- Maximum Short Circuit Temperature: +250° C
- Flame retardant: IEC 60332.1C2/NF C 32-070
- Insulation resistance: 20 MΩ x km

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 Weight 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 |



Addison Industrial Cables

German Standard (VDE)

| 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 Weight kg/km |
|----------------------|--|--|--------------------------------------|-----------------------------------|----------------------------|
| 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 |
| - | 1 x 300 | 2.6 | 3.6 | 36.5 | 3348 |