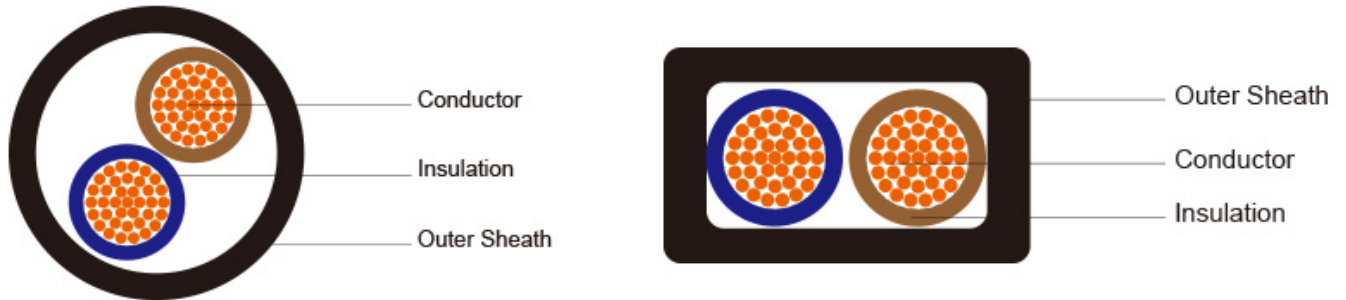


Harmonized Standard Industrial Cables H03VV-F/H03VVH2-F



Application and Description

These cable types are especially suited for use on small appliances with low mechanical stress and for connection for light household appliances, e.g. kitchen utensils, desk lamps, floor lamps, vacuum cleaners, office machines, radios, etc. As far as these cables are admitted to the relevant specifications of the equipment, they are not permitted for use with cooking or heating apparatus. Cables with cross section 0.75 mm² are not suitable for outdoor use or use of industrial or farmer machineries. Max operating voltage in single or three phase system is U_o/U 330/330 volts. In a direct current system max operating voltage is U_o/U 495/495 volts.

Standard and Approval

BS6500, CENELEC HD21.5, VDE 0281, CEI 20-20/5, CEI 20-35 (EN60332-1), CEI 20-52, CE low voltage directive 73/23/EEC & 93/68/EEC. ROHS compliant

Cable Construction

- Bare copper fine wire conductor
- Stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5 and HD 383
- PVC core insulation T12 to VDE-0281 Part 1
- Color coded to VDE-0293-308
- Green-yellow grounding (3 conductors and above)
- PVC outer jacket TM2

Technical Characteristics

- Working voltage: 300/300 volts
- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -40° C to +70° C
- Short circuit temperature: +160° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Cable Parameter

| AWG | NO. OF CORES X NOMINAL CROSS SECTIONAL AREA # X MM ² | NOMINAL THICKNESS OF INSULATION M | NOMINAL THICKNESS OF SHEATH M | NOMINAL OVERALL DIAMETER M | NOMINAL COPPER WEIGHT KG/K M | NOMINAL WEIGHT KG/K M |
|-----------|---|-----------------------------------|-------------------------------|----------------------------|------------------------------|-----------------------|
| H03VV-F | | | | | | |
| 20(16/32) | 2 x 0.50 | 0.5 | 0.6 | 5 | 9.6 | 38 |

| | | | | | | |
|---------------|----------|-----|-----|-----------|------|----|
| 20(16/32) | 3 x 0.50 | 0.5 | 0.6 | 5.4 | 14.4 | 45 |
| 20(16/32) | 4 x 0.50 | 0.5 | 0.6 | 5.8 | 19.2 | 55 |
| 18(24/32) | 2 x 0.75 | 0.5 | 0.6 | 5.5 | 14.4 | 46 |
| 18(24/32) | 3 x 0.75 | 0.5 | 0.6 | 6 | 21.6 | 59 |
| 18(24/32) | 4 x 0.75 | 0.5 | 0.6 | 6.5 | 28.8 | 72 |
| 18(24/32) | 5 x 0.75 | 0.5 | 0.6 | 7.1 | 36.0 | 87 |
| H03VVH2-F | | | | | | |
| 20(16/32) | 2 x 0.50 | 0.5 | 0.6 | 3.2 x 5.2 | 9.7 | 32 |
| 18(24/32) | 2 x 0.75 | 0.5 | 0.6 | 3.4 x 5.6 | 14.4 | 35 |