



Application and Description

These flexible cables insulated with Standard and Approval-quality PVC plus a heavyweight PVC sheath, they are suitable for connections and movable equipment, even in places of public show and entertainment. Can be installed inside, in dry or humid environments (AD2), and for temporary use outside and not permissible under the laying plaster or underground, even if protected.

Standard and Approval

CEI 20-22/2 , CEI 20-34, CEI 20-37, CEI 20-20/1/2, EN 50265, HD 21.5 Sez. 3, IEC 60332-3, Low Voltage directive 2006/95/EC, ROHS directive 2002/95/EC

Cable Construction

- Fine bare copper strands
- Strands to IEC 60228 class 5
- PVC core insulation TI2 to IEC 60502
- Color codes to HD-308 or EN50334
- Green-yellow grounding, 3 conductors and above
- PVC outer jacket TM 2 - Black (RAL 9005), Gray(RAL7001/7035)

Technical Characteristics

- Working Voltage: 300/500 volts, 450/750 volts
- Test voltage: 2500 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 4 x Ø
- Flexing Temperature: -15° C to +70° C
- Fixed Temperature: 0° 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 mm | Nominal Thickness of Sheath mm | Nominal Overall Diameter mm | Nominal Weight kg/Km |
|-------------|--|---|---|-----------------------------------|----------------------|
| FROR300/500 | | | | | |
| 18(24/32) | 7 x 1 | 0.6 | 1.0 | 11.1 | 151 |
| 18(24/32) | 10 x 1 | 0.6 | 1.2 | 14.3 | 220 |
| 18(24/32) | 12 x 1 | 0.6 | 1.2 | 14.8 | 250 |
| 18(24/32) | 16 x 1 | 0.6 | 1.3 | 16.5 | 330 |
| 18(24/32) | 19 x 1 | 0.6 | 1.4 | 17.7 | 385 |
| 18(24/32) | 24 x 1 | 0.6 | 1.5 | 20.7 | 485 |
| 18(24/32) | 27 x 1 | 0.6 | 1.6 | 21.4 | 600 |
| 16(30/30) | 7 x 1.5 | 0.7 | 1.2 | 13.1 | 215 |
| 16(30/30) | 10 x 1.5 | 0.7 | 1.3 | 16.7 | 305 |
| 16(30/30) | 12 x 1.5 | 0.7 | 1.4 | 17.5 | 345 |
| 16(30/30) | 16 x 1.5 | 0.7 | 1.5 | 19.4 | 455 |
| 16(30/30) | 19 x 1.5 | 0.7 | 1.6 | 20.5 | 520 |
| 16(30/30) | 24 x 1.5 | 0.7 | 1.7 | 24.3 | 675 |
| 16(30/30) | 27 x 1.5 | 0.7 | 1.8 | 25 | 720 |
| FROR450/750 | | | | | |

| | | | | | |
|-----------|---------|-----|-----|------|-----|
| 18(24/32) | 2 x 1 | 0,7 | 1,0 | 8,7 | 74 |
| 18(24/32) | 3 x 1 | 0,7 | 1,0 | 9,1 | 88 |
| 18(24/32) | 4 x 1 | 0,7 | 1,0 | 9,9 | 105 |
| 18(24/32) | 5 x 1 | 0,7 | 1,1 | 11,1 | 135 |
| 16(30/30) | 2 x 1,5 | 0,7 | 1,0 | 9,2 | 89 |
| 16(30/30) | 3 x 1,5 | 0,7 | 1,0 | 9,8 | 108 |
| 16(30/30) | 4 x 1,5 | 0,7 | 1,1 | 10,9 | 133 |
| 16(30/30) | 5 x 1,5 | 0,7 | 1,2 | 12 | 167 |
| 14(50/30) | 2 x 2,5 | 0,8 | 1,2 | 11,2 | 134 |
| 14(50/30) | 3 x 2,5 | 0,8 | 1,2 | 11,9 | 163 |
| 14(50/30) | 4 x 2,5 | 0,8 | 1,2 | 12,9 | 200 |
| 14(50/30) | 5 x 2,5 | 0,8 | 1,3 | 14,3 | 252 |
| 12(56/28) | 2 x 4 | 0,8 | 1,2 | 12,5 | 178 |
| 12(56/28) | 3 x 4 | 0,8 | 1,3 | 13,5 | 227 |
| 12(56/28) | 4 x 4 | 0,8 | 1,3 | 14,7 | 278 |
| 12(56/28) | 5 x 4 | 0,8 | 1,5 | 16,5 | 351 |
| 10(84/28) | 2 x 6 | 0,8 | 1,3 | 13,9 | 242 |
| 10(84/28) | 3 x 6 | 0,8 | 1,4 | 14,9 | 305 |
| 10(84/28) | 4 x 6 | 0,8 | 1,4 | 16,3 | 375 |
| 10(84/28) | 5 x 6 | 0,8 | 1,5 | 18 | 476 |