



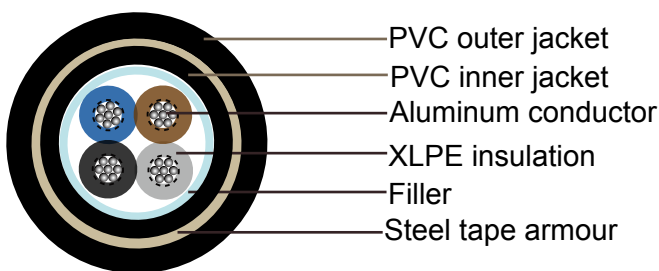
U-1000 ARV FV

Application

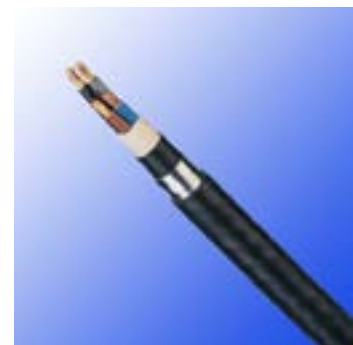
With a sheath and armor, U-1000 ARV FV is an enhanced version of the cables and U-1000 AR2V. They can be used in all industrial installations requiring mechanical protection. These cables can be provided in hard and SH C1 (NF C 32-323) and HR (resistant to aliphatic hydrocarbons). The design and characteristics of the materials comply with IEC 60502-1.

Standard and Approval

XP C 32-322



U1000 ARV FV



U1000 ARV FV

Cable Construction

- Aluminum conductor
- Strands to IEC 60228 class 2
- XLPE insulation according to XP C 32-321
- Color codes to HD 308 S2(XP C32-321)
- Not fibrous and not hygroscopic filler(only for multicore cables)
- PVC inner jacket
- Two steel tapes helically wrapped armour
- Flexible black PVC outer jacket



Technical Characteristics

- Working Voltage: 600/1000 volts
- Test voltage: 3500 volts
- Minimum bending radius: 10 x Ø
- Operation temperature range: -15 °C to 90 °C
- Short-circuit temperature: 250 °C
- Flame retardant: EN 60332-1/NF C 32-070 C2

Cable Parameter

| AWG | Cross Section mm ² | Insulation Thickness mm | Amour Thickness mm | Minimum Sheath Thickness mm | Approx Overall Diameter mm | Approx Cable Weight kg/km |
|--------|-------------------------------|-------------------------|--------------------|-----------------------------|----------------------------|---------------------------|
| 8 | 2x10 | 0.7 | 0.2 | 1.4 | 18.5 | 420 |
| 6 | 2x16 | 0.7 | 0.2 | 1.5 | 20.5 | 540 |
| 4 | 2x25 | 0.9 | 0.2 | 1.6 | 24.5 | 760 |
| 2 | 2x35 | 0.9 | 0.2 | 1.7 | 27 | 930 |
| 8 | 3x10 | 0.7 | 0.2 | 1.5 | 19 | 470 |
| 6 | 3x16 | 0.7 | 0.2 | 1.5 | 22 | 590 |
| 4 | 3x25 | 0.9 | 0.2 | 1.6 | 26 | 830 |
| 2 | 3x35 | 0.9 | 0.2 | 1.7 | 29 | 1030 |
| 1 | 3x50 | 0.9 | 0.2 | 1.8 | 32.5 | 1290 |
| 2/0 | 3x70 | 1.1 | 0.2 | 2 | 37.5 | 1710 |
| 3/0 | 3x95 | 1.1 | 0.5 | 2.1 | 43.5 | 2610 |
| 4/0 | 3x120 | 1.2 | 0.5 | 2.3 | 47.5 | 3110 |
| 300MCM | 3x150 | 1.4 | 0.5 | 2.4 | 53 | 3770 |
| 500MCM | 3x185 | 1.6 | 0.5 | 2.5 | 58 | 4540 |
| 750MCM | 3x240 | 1.7 | 0.5 | 2.7 | 65.5 | 5620 |
| - | 3x300 | 1.8 | 0.5 | 2.9 | 72 | 6830 |
| 1 | 3x50+35 | 1.0/0.9 | 0.2 | 1.9 | 34.5 | 1500 |
| 2/0 | 3x70+50 | 1.1/0.9 | 0.2 | 2 | 40 | 2000 |
| 3/0 | 3x95+50 | 1.1/1.0 | 0.5 | 2.2 | 45 | 2870 |
| 4/0 | 3x120+70 | 1.2/1.1 | 0.5 | 2.3 | 50 | 3460 |
| 300MCM | 3x150+70 | 1.4/1.1 | 0.5 | 2.5 | 54 | 4090 |
| 500MCM | 3x185+70 | 1.6/1.1 | 0.5 | 2.6 | 59 | 4980 |
| 750MCM | 3x240+95 | 1.7/1.1 | 0.5 | 2.8 | 66 | 6210 |



French Standard

| AWG | Cross Section mm ² | Insulation Thickness mm | Amour Thickness mm | Minimum Sheath Thickness mm | Approx Overall Diameter mm | Approx Cable Weight kg/km |
|--------|-------------------------------|-------------------------|--------------------|-----------------------------|----------------------------|---------------------------|
| 8 | 4x10 | 0.7 | 0.2 | 1.5 | 20.5 | 540 |
| 6 | 4x16 | 0.7 | 0.2 | 1.6 | 23.5 | 700 |
| 4 | 4x25 | 0.9 | 0.2 | 1.7 | 28 | 1000 |
| 2 | 4x35 | 0.9 | 0.2 | 1.8 | 31.5 | 1230 |
| 1 | 4x50 | 1 | 0.2 | 1.9 | 35.5 | 1550 |
| 2/0 | 4x70 | 1.1 | 0.5 | 2.1 | 42.5 | 2490 |
| 3/0 | 4x95 | 1.1 | 0.5 | 2.3 | 47.5 | 3120 |
| 4/0 | 4x120 | 1.2 | 0.5 | 2.4 | 53 | 3780 |
| 300MCM | 4x150 | 1.4 | 0.5 | 2.6 | 58.5 | 4550 |
| 500MCM | 4x185 | 1.6 | 0.5 | 2.7 | 64.5 | 5490 |
| 750MCM | 4x240 | 1.7 | 0.5 | 2.9 | 72.5 | 6860 |
| - | 4x300 | 1.8 | 0.5 | 3.1 | 79.5 | 8250 |
| 8 | 5x10 | 0.7 | 0.2 | 1.6 | 22.5 | 640 |
| 6 | 5x16 | 0.7 | 0.2 | 1.8 | 26 | 820 |
| 4 | 5x25 | 0.9 | 0.2 | 1.8 | 31 | 1190 |