



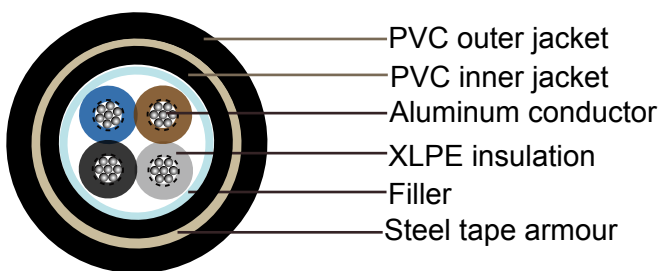
### U-1000 ARV FV

#### Application

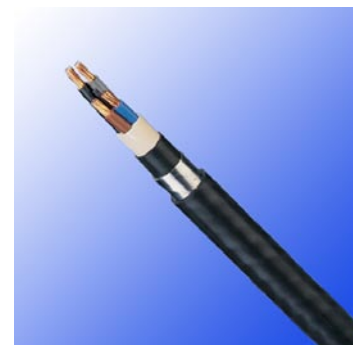
With a sheath and armor, U-1000 ARV FV is an enhanced version of the cables and U-1000 AR2V. They can be used in all industrial installations requiring mechanical protection. These cables can be provided in hard and SH C1 (NF C 32-323) and HR (resistant to aliphatic hydrocarbons). The design and characteristics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

#### Standard and Approval

NF C 32-322



U1000 ARV FV



U1000 ARV FV

#### Cable Construction

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



### Technical Characteristics

- Working Voltage: 600/1000 volts
- Test voltage: 1000 volts
- Minimum bending radius: 6 x Ø
- Operation temperature range: -10 °C to 60 °C
- Short-circuit temperature: 250 °C
- Flame retardant: NF C 32-070 C2
- Insulation resistance: 20 MΩ x km

### Cable Parameter

AWG	Cross Section mm <sup>2</sup>	Insulation thickness mm	Amour thickness mm	Minimum Sheath thickness mm	Maximum 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 <sup>2</sup>	Insulation thickness mm	Amour thickness mm	Minimum Sheath thickness mm	Maximum 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