Power & distribution cables

U-1000 AR2V 0.6/1kV NF C 32-321 French

Aluminium LV Cable

NF C 32-321 / IEC 60502-1 · 0.6/1 kV · -25°C to +90°C · Min. bend 12 × OD

NF C 32-321 / IEC 60502-1 | 0.6/1 kV



Application

U-1000 AR2V 0.6/1kV NF C 32-321 French Aluminium LV Cable manufactured to NF C 32-321 / IEC 60502-1, rated 0.6/1 kV and -25°C to +90°C with a 12 × OD minimum bending radius for infrastructure & construction installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	Conductor	4×35 mm² RM Class 2 Stranded Al
2	Insulation & Core Identification	NF C 32-321 XLPE (R2) core insulation (35 mm² Class 2 Aluminium)
3	Screen / Bedding / Armour Layer	Extruded elastomeric/plastomeric inner filler
4	Outer Protective Sheath	Black UV-resistant flame-retardant PVC (V) outer sheath (OD 25.2 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4×35 mm² RM Class 2 Stranded Al · NF C 32-321 XLPE (R2) core insulation (35 mm² Class 2 Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	NF C 32-321 / IEC 60502-1
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded elastomeric/plastomeric inner filler
Outer sheath material & colour	Black UV-resistant flame-retardant PVC (V) outer sheath (OD 25.2 mm)	Standards	NF C 32-321 / IEC 60502-1

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Conductor weight kg/km	Cable weight kg/km	Key electrical / optical rating
U-1000 AR2V 0.6/1kV NF C 32-321 French 3 sizes										
☐ U-1000 AR2V 0.6/1kV NF C 32-321 French (4×35 mm²)	4×35 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-321 XLPE core insulation	Industrial PVC	25.2	302	0.81	398.2	1,048	101 A
☐ U-1000 AR2V 0.6/1kV NF C 32-321 French (4×50 mm²)	4×50 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-321 XLPE core insulation	Industrial PVC	29.7	356	0.56	554.4	1,459	122 A
☐ U-1000 AR2V 0.6/1kV NF C 32-321 French (4×70 mm²)	4×70 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-321 XLPE core insulation	Industrial PVC	34.8	418	0.40	758.1	1,995	155 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ NF C 32-321 / IEC 60502-1 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/u-1000-ar2v-0-6-1kv-nf-c-32-321-french-aluminium-lv-cable

Typical values for this cable type, based on Reference specification per NF C 32-321 / IEC 60502-1 (U-1000 AR2V 0.6/1kV NF C 32-321 French). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.