Power & distribution cables

U-1000 R2V / XV 0.6/1kV NF C 32-321 French

Copper 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 R2V / XV 0.6/1kV NF C 32-321 French Copper 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**	5G10 mm² Class 2 Stranded Cu
2	**Insulation & Core Identification**	NF C 32-321 XLPE (R2) core insulation (10 mm² Class 2 Stranded Copper)
3	**Screen / Bedding / Armour Layer**	Extruded PVC inner filler compound
4	**Outer Protective Sheath**	Black UV-resistant flame-retardant PVC (V) outer sheath (OD 18.2 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	5G10 mm² Class 2 Stranded Cu · NF C 32-321 XLPE (R2) core insulation (10 mm² Class 2 Stranded Copper)
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 PVC inner filler compound
Outer sheath material & colour	Black UV-resistant flame-retardant PVC (V) outer sheath (OD 18.2 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	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
U-1000 R2V / XV 0.6/1kV NF C 32-321 French 3 sizes										
☐ U-1000 R2V / XV 0.6/1kV NF C 32-321 French (5G10 mm²)	5G10 mm²	Class 2 Stranded Plain Copper	NF C 32-321 XLPE core insulation	Industrial PVC	18.2	218	1.81	404.6	778	60 A
☐ U-1000 R2V / XV 0.6/1kV NF C 32-321 French (5G16 mm²)	5G16 mm²	Class 2 Stranded Plain Copper	NF C 32-321 XLPE core insulation	Industrial PVC	21.5	258	1.13	563.7	1,084	80 A
☐ U-1000 R2V / XV 0.6/1kV NF C 32-321 French (5G25 mm²)	5G25 mm²	Class 2 Stranded Plain Copper	NF C 32-321 XLPE core insulation	Industrial PVC	25.1	301	0.72	770.6	1,482	106 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-r2v-xv-0-6-1kv-nf-c-32-321-french-copper-lv-cable

Typical values for this cable type, based on Reference specification per NF C 32-321 / IEC 60502-1 (U-1000 R2V / XV 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.