Power & distribution cables

FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323

LSZH



NF C 32-323 / NF C 32-070 C1 · 0.6/1 kV · -25°C to +90°C · Min. bend 12 × OD

NF C 32-323 / NF C 32-070 C1 | 0.6/1 kV

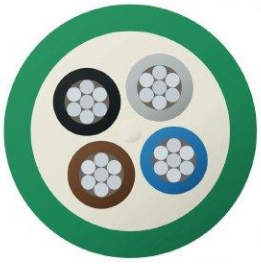
Application

FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323 LSZH manufactured to NF C 32-323 / NF C 32-070 C1, 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 32-323 XLPE core insulation (35 mm² Class 2 Aluminium)
3	Screen / Bedding / Armour Layer	Extruded halogen-free polymer inner sheath
4	Outer Protective Sheath	Green NF C 32-323 C1 flame-retardant halogen-free outer sheath (OD 25.8 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 32-323 XLPE 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 32-323 / NF C 32-070 C1
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded halogen-free polymer inner sheath
Outer sheath material & colour	Green NF C 32-323 C1 flame-retardant halogen-free outer sheath (OD 25.8 mm)	Standards	NF C 32-323 / NF C 32-070 C1

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
FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323 3 sizes										
☐ FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323 (4×35 mm²)	4×35 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-323 XLPE core insulation	LSZH Jacket	25.8	310	0.81	417.2	1,098	101 A
☐ FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323 (4×50 mm²)	4×50 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-323 XLPE core insulation	LSZH Jacket	30.4	365	0.56	581.0	1,529	122 A
☐ FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323 (4×70 mm²)	4×70 mm²	Class 2 Compacted Stranded Aluminium	NF C 32-323 XLPE core insulation	LSZH Jacket	35.6	427	0.40	795.0	2,092	155 A

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

Standards and approvals

- ✓ NF C 32-323 / NF C 32-070 C1 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/fr-n1x1g1-ar-fr-n1x1g1-r-0-6-1kv-nf-c-32-323-lszh**

Typical values for this cable type, based on Reference specification per NF C 32-323 / NF C 32-070 C1 (FR-N1X1G1-AR / FR-N1X1G1-R 0.6/1kV NF C 32-323). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.