Power & distribution cables

FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C 33-226



NF C 33-226 · 12/20 (24) kV – 18/30 (36) kV · -25°C to +90°C · Min. bend 15 × OD

NF C 33-226 | 12/20–18/30 kV

Application

FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C 33-226 manufactured to NF C 33-226, rated 12/20 (24) kV – 18/30 (36) kV and -25°C to +90°C with a 15 × OD minimum bending radius for renewable energy 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**	1×150 mm² Class 2 Stranded Al
2	**Insulation & Core Identification**	NF C 33-226 triple-extruded XLPE dielectric (150 mm² Stranded Aluminium)
3	**Screen / Bedding / Armour Layer**	Grooved outer semi-screen with longitudinal water-swellable powder + Longitudinally glued 0.15 mm aluminium screen bonded to PE sheath
4	**Outer Protective Sheath**	Black high-density Polyethylene (PE ST7) outer sheath (OD 30.8 mm)

Technical data

Typical values

Nominal / reference voltage	12/20 (24) kV – 18/30 (36) kV	Conductor & core insulation	1×150 mm² Class 2 Stranded Al · NF C 33-226 triple-extruded XLPE dielectric (150 mm² Stranded 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 33-226
Minimum bending radius	15 × OD	Screening / armour architecture	Grooved outer semi-screen with longitudinal water-swellable powder + Longitudinally glued 0.15 mm aluminium screen bonded to PE sheath
Outer sheath material & colour	Black high-density Polyethylene (PE ST7) outer sheath (OD 30.8 mm)	Standards	NF C 33-226

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-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C 3 sizes										
☐ FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C (1×150 mm²)	1×150 mm²	Class 2 Compacted Stranded Aluminium	NF C 33-226 triple-extruded XLPE dielectric	Outdoor PE	30.8	462	0.19	594.7	1,565	250 A
☐ FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C (1×185 mm²)	1×185 mm²	Class 2 Compacted Stranded Aluminium	NF C 33-226 triple-extruded XLPE dielectric	Outdoor PE	36.3	544	0.15	828.0	2,179	286 A
☐ FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C (1×240 mm²)	1×240 mm²	Class 2 Compacted Stranded Aluminium	NF C 33-226 triple-extruded XLPE dielectric	Outdoor PE	42.5	638	0.12	1,132.8	2,981	336 A

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

Standards and approvals

- ✓ NF C 33-226 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-n20xa8e-fr-n30xa8e-12-20kv-18-30kv-nf-c-33-226**

Typical values for this cable type, based on Reference specification per NF C 33-226 (FR-N20XA8E / FR-N30XA8E 12/20kV–18/30kV NF C). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.