



CONTACT

Building Products Information
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FR-N20XA8E-AR

The low-carbon power grid cables for distribution public networks, 100% manufactured in France (plant Bourg-en-Bresse 01), guarantee a minimum 35% reduction in greenhouse gas emissions compared to standard cables.

This offer is built on the guaranteed use of low-carbon aluminium and recycled plastic (50% in the sheathing), as well as the use of renewable or decarbonised energies in manufacturing the cables.

Nexans provides all the environmental data for its products (PEP Ecopassport®).

STANDARDS

Product NF C33-226

USAGE

NF C33-226 cables are the new generation of cables for public power distribution network 12/20 kV.

They are AD8 (water pressure < 0,2 bar), AF2 and AN3 complying with NF C13-200 standard.

Sheath is anti-termite resistant.

The cable is made of 1 or 3 bunched cores.

ELECTRICAL SPECIFICATIONS

Calculations carried out in accordance with the IEC 60287 recommendation, given for information purposes, valid for a single joint trefoil connection and earthing of the screen at both ends.

The installation conditions must respect the rules of the art.

For the buried part, the cables are considered to be laid directly in the ground.

For the part in the open air, the cables are assumed to be laid on perforated cable trays, sheltered from the sun, at a distance from the walls equal to at least one cable diameter.

Soil resistivity: 0.85 K.m/W

Floor temperature: 20°C

Installation depth: 800 mm

Cable in the open air

Air temperature: 30°C

Short circuit characteristics according to IEC 60949.

Voltage drop is calculated for $\cos \varphi = 0,9$.



Rated Voltage U_0/U (Um)
12 / 20 (24) kV



Mechanical resistance to impacts
AG4



Ambient installation T°C range
-10 ... 50 °C



Weather resistance
AN3 / AF2



Water proof
AD8

OPTIONS

NF C33-226 cables can be manufactured with the following options:

- Rated voltage 18/30(36)kV
- Version with messenger (+P50) in 3x1x50, 95 and 150mm² aluminium
- **Re-enforced burying resistance (NEXANS EDR MAX)** is ensured with an extruded polyethylene protection.

CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
Material of the inner semi-conductor	Extruded
Insulation	XLPE
Material of the external semi-conductor	Extruded strippable smooth elastomer
Material used for longitudinal water tightness	Swellable tape
Screen	Longitudinal aluminium tape
Outer sheath	PE
Sheath colour	Black + 2 Grey Lines

Dimensional characteristics

Screen thickness	150 µm
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Electrical characteristics

Rated Voltage U _o /U (Um)	12 / 20 (24) kV
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Mechanical characteristics

Mechanical resistance to impacts	AG4
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
Usage characteristics



Ambient installation temperature, range	-10 ... 50 °C
Weather resistance	AN3 / AF2
Water proof	AD8

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Conductor cross-section [mm ²]	Number of cores
☎ 10286894	-	FR-N20XA8E-AR3X1X300 Eca N/G C33226	300	3
🏠 10285117	01273294	FR-N20XA8E-AR 3x1x400 Eca N/G BGN9 GL	400	3
☎ 10285118	-	FR-N20XA8E-AR 3x1x630 Eca N/G BGN9 GL	630	3
🏠 10284931	01273282	FR-N20XA8E-AR 1x 95/0.15 Eca N/G BGN9 GL	95	1
🏠 10284930	01273281	FR-N20XA8E-AR 1x 50/0.15 Eca N/G BGN9 GL	50	1
🏠 10284932	01273283	FR-N20XA8E-AR 1x150/0.15 Eca N/G BGN9 GL	150	1

☎ = Make to order, 🏠 = In stock,

Nexans Ref.	Country Ref.	Name	Conductor cross-section [mm ²]	Number of cores
 10284933	01273284	FR-N20XA8E-AR 1x240/0.15 Eca N/G BGN9 GL	240	1
 10286890	-	FR-N20XA8E-AR1x300/0.15 Eca N/G C33226	300	1
 10285105	01273286	FR-N20XA8E-AR1x400/0.15 Eca N/G BGN9 GL	400	1
 10285106	01273287	FR-N20XA8E-AR 1x630/0.15 Eca N/G BGN9 GL	630	1
 10285107	-	FR-N20XA8E-AR1x1200/0.15 Eca N/G BGN9 GL	1200	1
 10284942	01273289	FR-N20XA8E-AR 3x1x 50 Eca N/G BGN9 GL	50	3
 10284943	01273290	FR-N20XA8E-AR 3x1x 95 Eca N/G BGN9 GL	95	3
 10285114	01273291	FR-N20XA8E-AR 3x1x150 Eca N/G BGN9 GL	150	3
 10285115	01273292	FR-N20XA8E-AR 3x1x240 Eca N/G BGN9 GL	240	3

 = Make to order,  = In stock,

SELLING AND DELIVERY INFORMATION

Marking

Example NEXANS - plant number - NF C33-226 int. designation- section - Al - 12/20 (24) kV - year - month - installation guide type - G sheath thickness - SC semi-conductor thickness - EC screen thickness - RT installation temperature Eca

Metric marking

Marking "LOW CARBON"

The marking is metric over one core sheath, as well as a tracing mark.

Core identification: 1, 2, 3 helix-wise