

NEXANS EDR MAX NF C33-226 12/20(24)







CONTACT

Building Products Information contact.fr@nexans.com

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 HD 620; NF C33-226

USAGE

NEXANS EDR MAX NF C33-226 Direct Buried cables are the new generation of cables for public power distribution network 12/20 kV. Re-enforced burying resistance (EDR)is ensured with an extruded polyethylene protection. They are flame retardant according to NF EN 60332-1-2. They are AD8 (water pressure < 0,2 bar), AF2 and AN3 complying with NF C13-200 standard. Both sheaths are antitermite 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 $\cos \varphi = 0.9$.







Mechanical resistance to impacts Ambient installation T°C range



-10 ... 50 °C



Weather resistance AN3 / AF2



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OPTIONS

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

- Rated voltage 18/30(36)kV
- Copper conductor
- Bunch

CHARACTERISTICS

Construction characteristics							
Conductor material	Aluminum						
Material of the inner semi-conductor	Extruded semiconducting compound						
Insulation	XLPE						
Material of the external semi-conductor	Extruded strippable smooth elastomer						
Material used for longitudinal water tightness	Swellable tape						
Screen	Longitudinal aluminium tape						
Sheath colour	Black + 2 Grey Lines						
Inner sheath	Polyethylene						
Outer sheath	Polyethylene						
Dimensional characteristics							
Screen thickness	150 µm						
Electrical characteristics							
Rated Voltage Uo/U (Um)	12 / 20 (24) kV						
Mechanical characteristics							
Mechanical resistance to impacts	AG4						
Usage characteristics							
Ambient installation temperature, range	-10 50 °C						
Weather resistance	AN3 / AF2						

PRODUCT LIST

	Nexans Ref.	Country Ref.	Name	Conductor cross- section [mm²]	Number of cores
₽.	10285122	-	FR-N20XA8E-AR 1X 95 ECA N/G BGN9 EDRMAX	95	1
₽ P	10285123	-	FR-N20XA8E-AR 1X150 ECA N/G BGN9 EDRMAX	150	1
昆	10285134	-	FR-N20XA8E-AR 1X240 ECA N/G BGN9 EDRMAX	240	1
晶	10285139	-	FR-N20XA8E-AR1x400 EDRMAX Eca 33226RUB	400	1
昆	10285086	-	FR-N20XA8E-AR3X1X 95 ECA N/G BGN9 EDRMAX	95	3
				t = Make to order	品 = In stock



NEXANS EDR MAX NF C33-226 12/20(24) kV

	Nexans Ref.	Country Ref.	Name	Conductor cross- section [mm²]	Number of cores
<u>a</u>	10285087	-	FR-N20XA8E-AR3X1X150 ECA N/G BGN9 EDRMAX	150	3
品	10285088	-	FR-N20XA8E-AR3X1X240 ECA N/G BGN9 EDRMAX	240	3
				📞 = Make to order,	晶 = 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 - C2 RT installation temperature - EDR

Marking"NEXANS EDR MAX"

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