AFNOR NF M 87-202 OS Unarmoured Fire retardant

12 IP 09 EG SF

- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant**

STANDARDS

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These instrumentation and communication cables are used to transmit analogue or digital signals in measurement and process control where hydrocarbons may be present.

Nexans code

1st serie = number of pairs, triples or quads: 01 to 27
2nd serie = pair (IP), triple (IT), quad (IQ)
3rd serie = conductor 05 (1 x 0.8 mm), 09 (7 x 0.4 mm) or 15 (7 x 0.52 mm)
4th serie = overall screen (EG), individual screen + overall screen (EI)
5th serie = mechanical protection: without metal tape (SF), with steel tape (FA), with lead and steel tape (PF)

Design

Conductor:
- Solid plain copper 0.50 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (7 x 0.40 mm) or 1.5 mm² (7 x 0.52 mm)

Insulation:
- Polyvinyl chloride (PVC)

Overall screen:
- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester tape

Outer sheath:
- Polyvinyl chloride (PVC)
- Colour: light-blue or grey

Core identification

Pair: natural - red
Triple: natural - red - blue
Quad: natural - red - blue - yellow
Natural cores printed with pair/triple number

Marking

NEXANS 279 - Number of pair/triple/quad IP/IT/IQ 05/09/15 EG SF IEC 60332-3-22(A) + metric marking

CONTACT

Market information
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Fire retardant	Chemical resistance	Electro magnetic interference resistance	Operating temp.	Max.conductor temp.in service
EN IEC 60332-3-22 (cat A)	**Hydrocarbons resistant**	**Yes**	**-20 ... 60 °C**	**70 °C**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxeo is indicative only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

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12 IP 09 EG SF

CHARACTERISTICS

Construction characteristics	
Conductor material	Plain copper
Insulation	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Dimensional characteristics	
Conductor cross-section	0.88 mm²
Number of pairs	12
Number of triples	-
Number of quads	-
Conductor diameter	1.2 mm
Diameter over insulation	2.2 mm
Minimum outer diameter	18.3 mm
Maximum outer diameter	20.2 mm
Approximate weight	465 kg/km
Electrical characteristics	
Operating voltage	250 V
Usage characteristics	
Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Hydrocarbons resistant
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	NFM

ELECTRICAL DATA NF M 87202

Electrical data

Section	Maximum Voltage (V)	Voltage Test (V)	DC Lineic resistance at 20°C (Ω/km)	Self Inductance mH/km		Capacitance between cond. (nF/km)
				Non Armoured	Armoured	
05	250	2 000	37.5	0.33	0.38	≤145
09	250	2 000	21.4	0.31	0.36	≤160
15	250	2 000	12.1	0.31	0.36	≤180

Fire retardant
EN IEC 60332-3-22 (cat A)

Chemical resistance
Hydrocarbons resistant

Electro magnetic interference resistance
Yes

Operating temp.
-20 ... 60 °C

Max.conductor temp.in service
70 °C

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SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations


Fire retardant
EN IEC 60332-3-22 (cat A)


Chemical resistance
Hydrocarbons resistant


Electro magnetic interference resistance
Yes


Operating temp.
-20 ... 60 °C


Max.conductor temp.in service
70 °C

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