AFNOR NF M 87-202 OS Unarmoured Fire retardant

- 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
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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CHARACTERISTICS

Construction characteristics	
Conductor material	Plain copper
Insulation	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Dimensional characteristics	
Number of quads	-
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

SECTION 0.5MM

Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 05 EG SF	8.0	9.1	95
07 IP 05 EG SF	10.5	11.8	165
07 IT 05 EG SF	12.1	13.5	230
12 IP 05 EG SF	13.4	14.9	255
12 IT 05 EG SF	15.5	17.1	375
19 IP 05 EG SF	16.9	18.6	385
27 IP 05 EG SF	19.7	21.7	530

SECTION 0.88MM

Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
01 IP 09 EG SF	6.1	7.0	65
01 IT 09 EG SF	6.4	7.4	75
01 IQ 09 EG SF	7.0	8.0	90
03 IP 09 EG SF	10.4	11.7	160


Fire retardant
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Hydrocarbons resistant


Electro magnetic interference resistance
Yes


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-20 ... 60 °C


Max.conductor temp.in service
70 °C

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Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
07 IP 09 EG SF	13.9	15.4	280
07 IT 09 EG SF	16.4	18.1	410
12 IP 09 EG SF	18.3	20.2	465
12 IT 09 EG SF	20.8	22.9	660
19 IP 09 EG SF	22.7	25.0	700
27 IP 09 EG SF	26.6	29.3	945

SECTION 1.5MM

Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
01 IP 15 EG SF	6.8	7.8	83
01 IT 15 EG SF	7.2	8.2	100

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

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

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Max.conductor temp.in service
70 °C