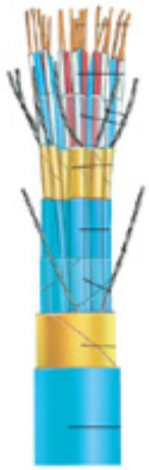
AFNOR NF M 87 - 202 IOS Unarmoured Fire retardant



- Instrumentation cables 250 V
- Individual & Overall Screen (IOS)
- Hydrocarbons resistant

STANDARDS

Test IEC 60332 - 3 - 22 Cat.A

APPLICATIONS

These instrumentation and communication cable are used to transmit analogue or digital signals in measurement and process control where chemicals may be present. The individual screening of each pair limits the consequence of crosstalk.

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 mm ² (1 x 0.80 mm) or stranded plain copper cross - section 0.88 mm ² (7 x 0.40 mm)

Insulation:
- Polyvinyl chloride (PVC)

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

Individual sheath:
- Polyvinyl chloride (PVC)

Collective 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
Blue individual sheath printed with pair or triple number

Marking

NEXANS 279 - Number of pair/triples IP/IT 05/09 EI SF IEC 60332 - 3 - 22(A) + metric marking

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

CONTACT

Market information
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CHARACTERISTICS

구조적 특성	
도체 재료	베어 구리
절연	폴리염화비닐
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
피복	폴리염화비닐
전기적 특성	
Operating voltage	250 V
사용 특성	
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Hydrocarbons resistant
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	70 ° C
Standard	NFM

SECTION 0.5MM

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
	03 - IP - 05 - EI - SF	11.2	12.8	185
	07 - IP - 05 - EI - SF	15.2	17.4	295
	07 - IT - 05 - EI - SF	16.8	19.3	385
	12 - IP - 05 - EI - SF	19.8	22.7	500
	12 - IT - 05 - EI - SF	21.5	24.6	695
	19 - IP - 05 - EI - SF	24.8	28.4	840
	27 - IP - 05 - EI - SF	29.3	33.6	1145

SECTION 0.88MM

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	무게(근사치) [kg/km]
	03 - IP - 09 - EI - SF	13.5	15.5	270
	07 - IP - 09 - EI - SF	18.9	21.7	485
	07 - IT - 09 - EI - SF	20.6	23.7	655
	12 - IP - 09 - EI - SF	24.7	28.3	830
	12 - IT - 09 - EI - SF	26.5	30.4	1045
	19 - IP - 09 - EI - SF	30.3	34.8	1090
	27 - IP - 09 - EI - SF	35.8	41.1	1705


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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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

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