



- 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.**

## CONTACT

Market information  
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## 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<sup>2</sup> (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm<sup>2</sup> (7 x 0.40 mm)

### Insulation:

- Polyvinyl chloride (PVC)

### Individual 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  
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

## CHARACTERISTICS

### Construction characteristics

Conductor material	Plain copper
Insulation	PVC
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC

### Electrical characteristics

Operating voltage	250 V
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### 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

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [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]	Approx. weight [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



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

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	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

## 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