



- 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 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) or 1.5 mm<sup>2</sup> (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

## 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	-
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### 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

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



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Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
70 °C

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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Yes



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-20 ... 60 °C



Max. conductor temp. in service  
70 °C