



- Instrumentation cables 250 V
- Individual & Overall Screen (IOS)
- 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. They are well adapted to underground use in industrial applications where hydrocarbons may be present and mechanical protections are needed (refinery areas, chemical plant...). 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 = collective screen (EG), individual screen + collective 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

### Inner sheath:

- Polyvinyl chloride (PVC)

### Armour:

- Double steel 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/triple number



阻燃  
EN IEC 60332-3-22 (cat A)



耐化学物质  
Hydrocarbons resistant



抗电磁干扰  
是



操作温度  
-20 ... 60 ° C



芯线最高静止温度  
70 ° C

## Marking

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

## CONTACT

Market information  
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## CHARACTERISTICS

### 结构特性

导体材料	裸铜
绝缘	聚氯乙烯
线对屏蔽	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
总屏蔽	Tinned copper drain wire + aluminium/polyester tape
内护套	聚氯乙烯
铠装类型	钢带
外护套	聚氯乙烯

### 电气特性

工作电压	250 V
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### 使用特性

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标准	NFM

## SECTION 0.5MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 05 EI FA	11.7	12.7	14.4	15.9	344
07 IP 05 EI FA	16.2	17.3	19.1	21.1	565
07 IT 05 EI FA	17.8	18.8	20.6	22.7	671
12 IP 05 EI FA	20.9	21.9	23.8	26.2	840
12 IT 05 EI FA	22.6	23.6	25.4	28.0	1005
19 IP 05 EI FA	26.1	27.2	29.1	32.1	1205
27 IP 05 EI FA	30.8	31.8	33.8	37.2	1575



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## SECTION 0. 88MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 09 EI FA	15.1	15.2	18.5	20.4	465
07 IP 09 EI FA	19.9	21.0	22.9	25.3	792
07 IT 09 EI FA	19.9	21.0	22.9	25.3	792
12 IP 09 EI FA	26	27.1	29.0	32.0	1205
12 IT 09 EI FA	26	27.1	29.0	32.0	1205
19 IP 09 EI FA	31.9	33.0	34.8	38.4	1709
27 IP 09 EI FA	37.7	38.7	40.6	44.8	2275

## 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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