



### CONTACT

Market information  
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- 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



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

## CHARACTERISTICS

### 结构特性

|      |   |
|------|---|
| 导体材料 | 裸铜  |
| 绝缘   | 聚氯乙烯  |
| 总屏蔽  | Tinned copper drain wire + aluminium/polyester tape |
| 外护套  | 聚氯乙烯  |

### 尺寸特性

|                        |                     |
|------------------------|---------------------|
| 导线截面                   | 1.5 mm <sup>2</sup> |
| 线对数                    | 1                   |
| 三线组数                   | -                   |
| 四线组数                   | -                   |
| 导线直径                   | 1.55 mm             |
| 绝缘外径                   | 2.55 mm             |
| 外径最小值                  | 6.8 mm              |
| Maximum outer diameter | 7.8 mm              |
| 近似重量                   | 83 kg/km            |

### 电气特性

|      |       |
|------|-------|
| 工作电压 | 250 V |
|------|-------|

### 使用特性

|          |                           |
|----------|---------------------------|
| 阻燃       | EN IEC 60332-3-22 (cat A) |
| 耐化学物质    | Hydrocarbons resistant    |
| 抗电磁干扰    | 是                         |
| 操作温度范围   | -20 ... 60 ° C            |
| 芯线最高静止温度 | 70 ° C                    |
| 标准       | NFM                       |

## 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                              |



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## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter

To be doubled during laying operations



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