



- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant**

## STANDARDS

Ensayo 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 protection is needed (refinery areas, chemical plant...)**.

## 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)

### 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
- 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 FA IEC 60332-3-22(A) + metric marking



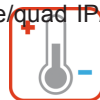
No propagador del incendio  
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Resistencia química  
Hydrocarbons resistant



Resistencia a interferencias electromagnéticas  
Sí



Temp. ambiente de utilización  
-20 ... 60 °C



Max.conductor temp.in service  
70 °C

## CHARACTERISTICS

### Características de construcción

|                        |   |
|------------------------|---|
| Material del conductor | Plain copper  |
| Aislamiento            | PVC   |
| Overall screen         | Tinned copper drain wire + aluminium/polyester tape |
| Cubierta exterior      | PVC   |
| Cubierta interior      | PVC   |
| Tipo de armadura       | Cintas de acero                                     |

### Características dimensionales

|                     |   |
|---------------------|---|
| Número de cuadretes | - |
|---------------------|---|

### Características eléctricas

|                      |       |
|----------------------|-------|
| Tensión de operación | 250 V |
|----------------------|-------|

### Características de uso

|  |                           |
|--|---------------------------|
| No propagador del incendio                     | EN IEC 60332-3-22 (cat A) |
| Resistencia química                            | Hydrocarbons resistant    |
| Resistencia a interferencias electromagnéticas | Sí                        |
| Temperatura ambiente de utilización (rango)    | -20 ... 60 °C             |
| Temperatura máxima del conductor               | 70 °C                     |
| Standard                                       | 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                              |

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations



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