# AFNOR NF M 87-202 OS Armoured Fire retardant

- 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**. 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 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (7 x 0.40 mm) or 1.5 mm² (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

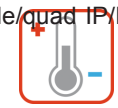
## Marking

NEXANS 279 - Number of pair/triple/quad IP/IT/IQ 05/09/15 EG FA IEC 60332-3-22(A) + metric marking

Fuoco ritardante
**EN IEC 60332-3-22 (cat A)**

Resistenza chimica
**Resistente agli idrocarburi**

Resistenza ad interferenza elettromagnetica
**Sì**



Temperatura Operativa
**-20 ... 60 °C**

Temp. max di servizio del conduttore
**70 °C**


## CONTACT

Market information
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# AFNOR NF M 87-202 OS Armoured Fire retardant

## CHARACTERISTICS

| | |
|---|---|
| **Caratteristiche costruttive** | |
| Materiale del conduttore | Rame nudo |
| Isolamento | PVC |
| Schermo Collettivo | Filo di rame stagnato + Nastro Alluminio / Polyestere |
| Guaina esterna | PVC |
| Guaina interna | PVC |
| Tipo di armatura | Nastri di acciaio |
| **Caratteristiche dimensionali** | |
| Numero di quads | - |
| **Caratteristiche elettriche** | |
| Tensione operativa | 250 V |
| **Caratteristiche d'utilizzo** | |
| Fuoco ritardante | EN IEC 60332-3-22 (cat A) |
| Resistenza chimica | Resistente agli idrocarburi |
| Resistenza ad interferenza elettromagnetica | Sì |
| Temperatura Operativa | -20 ... 60 °C |
| Temperatura massima di servizio del conduttore | 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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