



- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant and enhanced resistance to aromatics**

### 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, in moist areas, where chemical and mechanical protections are needed. The lead cover brings an enhanced resistance to aromatics hydrocarbons.**

### 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)

Insulation:

- Polyvinyl chloride (PVC)

Collective screen:

- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester tape

Inner sheath:

- Polyvinyl chloride (PVC)

Lead covering

Armour:

- Paraffin-waxed crepe paper
- 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



No propagador del incendio  
EN IEC 60332-3-22 (cat A)



Resistencia química a  
Hydrocarbons resistant



Resistencia a  
interferencias electromagnéticas



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



Max.conductor temp.in service  
70 °C

### Marking

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

## CHARACTERISTICS

### Características de construcción

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

### Características dimensionales

Sección del conductor	0,88 mm <sup>2</sup>
Número de pares	-
Number of triples	12
Número de cuadretes	-
Diámetro del conductor	1,2 mm
Diámetro sobre aislamiento	2,2 mm
Diámetro exterior mínimo	28,2 mm
Diámetro exterior máximo	31,1 mm
Peso aproximado	2071 kg/km
Diameter over inner sheath	21,5 mm
Lead cover diameter	24.3 mm

### Características eléctricas

Tensión de operación	250 V
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### 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



No propagador del incendio  
EN IEC 60332-3-22 (cat A)



Resistencia química  
Hydrocarbons resistant



Resistencia a interferencias electromagnéticas  
Sí



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## 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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Hydrocarbons resistant



Resistencia a interferencias electromagnéticas  
Sí



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-20 ... 60 °C



Max.conductor temp.in service  
70 °C