



- Instrumentation cables 250 V
- Individual & Overall Screen (IOS)
- **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 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 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (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



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



Resistencia química
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 IP/IT 05/09 EI FA IEC 60332-3-22(A) + metric marking

CHARACTERISTICS

Características de construcción

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

Características dimensionales

Sección del conductor	0,5 mm ²
Número de pares	-
Number of triples	12
Diámetro del conductor	0,8 mm
Diámetro sobre aislamiento	1,6 mm
Diameter over inner sheath	22,6 mm
Diameter over armour	23,6 mm
Diámetro exterior mínimo	25,4 mm
Diámetro exterior máximo	28,0 mm
Peso aproximado	1005 kg/km

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



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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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Sí



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