



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

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

#### Individual screen:

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

#### Individual sheath:

- Polyvinyl chloride (PVC)

#### Overall 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

### CONTACT

Market information  
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Fire retardant  
 EN IEC 60332-3-22 (cat A)



Chemical resistance  
 Hydrocarbons resistant and enhanced resistances to aromatics



### Core identification

Pair: natural - red

Triple: natural - red - blue

Blue individual sheath printed with pair/triple number



Operating temp.  
 20 - 60 °C



Max. conductor temp.in service  
 70 °C

### Marking

NEXANS 279- Number of pair/triple IP/IT 05/09 EI PF IEC 60332-3-22(A)+ metric marking

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

## CHARACTERISTICS

### Construction characteristics

Conductor material	Plain copper
Insulation	PVC
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Lead Sheath	Yes
Armour type	Steel tapes
Outer sheath	PVC

### Dimensional characteristics

Conductor cross-section	0.88 mm <sup>2</sup>
Number of pairs	27
Number of triples	-
Conductor diameter	1.2 mm
Diameter over insulation	2.2 mm
Diameter over inner sheath	36.3 mm
Lead cover diameter	39.9 mm
Diameter over armour	41.7 mm
Minimum outer diameter	43.9 mm
Maximum outer diameter	48.5 mm
Approximate weight	4500 kg/km

### Electrical characteristics

Operating voltage	250 V
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### Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Hydrocarbons resistant and enhanced resistances to aromatics
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	NFM



Fire retardant  
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Chemical resistance  
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Electro magnetic interference resistance  
 Yes



Operating temp.  
 -20 ... 60 °C



Max. conductor temp. in service  
 70 °C

## 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



Fire retardant  
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Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
70 °C