



- 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

**Core identification**

Pair: natural - red  
Triple: natural - red - blue  
Blue individual sheath printed with pair/triple number

**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



**Marking**

NEXANS 279 - Number of pair/triple IP/IT  
Electro magnetic interference resistance Yes



Operating temp. -20 ... 60 °C



Max. conductor temp. in service 70 °C

## CHARACTERISTICS

Individual screen	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Lead Sheath	Yes
Armour type	
	0.5 mm <sup>2</sup>
Number of pairs	-
Number of triples	7
	0.8 mm
Diameter over insulation	1.6 mm
Diameter over inner sheath	17.8 mm
Lead cover diameter	20.4 mm
Diameter over armour	22.2 mm
Minimum outer diameter	24.3 mm
Maximum outer diameter	26.8 mm
( )	1549 kg/km
Operating voltage	250 V
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Hydrocarbons resistant and enhanced resistances to aromatics
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	70 ° C
Standard	NFM



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



Chemical resistance  
Hydrocarbons resistant and enhanced resistances to aromatics



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