



- Instrumentation cables 250 V
- Individual & Overall Screen (IOS)
- Hydrocarbons resistant

## STANDARDS

Test IEC 60332 - 3 - 22 Cat.A

## APPLICATIONS

These instrumentation and communication cable are used to transmit analogue or digital signals in measurement and process control where chemicals may be present. 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)

### Collective screen:

- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester 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 or triple number

## Marking

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



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



Chemical resistance  
Hydrocarbons resistant



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
	0.5 mm <sup>2</sup>
Number of pairs	-
Number of triples	7
	0.8 mm
Diameter over insulation	1.6 mm
Minimum outer diameter	16.8 mm
Maximum outer diameter	19.3 mm
( )	385 kg/km
Operating voltage	250 V
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Hydrocarbons resistant
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	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



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



Chemical resistance  
Hydrocarbons resistant



Electro magnetic interference resistance  
Yes



Operating temp.  
- 20 ... 60 ° C



Max. conductor temp. in service  
70 ° C

### SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations



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



Chemical resistance  
Hydrocarbons resistant



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
70 °C