



### CONTACT

Market information  
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- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant**

### 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 where hydrocarbons may be present and mechanical protection is needed (refinery areas, chemical plant...)**.

### 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) or 1.5 mm<sup>2</sup> (7 x 0.52 mm)

#### Insulation:

- 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  
Quad: natural - red - blue - yellow  
Natural cores printed with pair/triple number

### Marking

NEXANS 279 - Number of pair/triple/quad IP/IT/IQ 05/09/15 EG FA 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**

**Construction characteristics**

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

**Dimensional characteristics**

Conductor cross-section	0.88 mm <sup>2</sup>
Number of pairs	1
Number of triples	-
Number of quads	-
Conductor diameter	1.2 mm
Diameter over insulation	2.2 mm
Minimum outer diameter	9.1 mm
Maximum outer diameter	10.3 mm
Approximate weight	165 kg/km
Diameter over armour	7.6 mm
Diameter over inner sheath	6.6 mm

**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
Electro magnetic interference resistance	Yes
Operating temperature, range	-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



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  
 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