



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

### STANDARDS

Tests 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 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

#### 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



Flammwidrig  
EN IEC 60332-3-22 (cat A)



Chemische Beständigkeit  
Hydrocarbons resistant



Magnetically shielded  
Ja



Betriebstemp.  
-20 ... 60 °C



Max. Betriebstemp. am Leiter  
70 °C

### Marking

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

### CONTACT

Market information  
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ogroup.com

## CHARACTERISTICS

## Konstruktionsmerkmale

Leitermaterial	blank
Isolierung	PVC
Einzeln geschirmt	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Gemeinsamer Schirm	Tinned copper drain wire + aluminium/polyester tape
Innenmantel	PVC
Armierung	Stahlbaender
Außenmantel	PVC

## Abmessungsmerkmale

Leiterquerschnitt	0,5 mm <sup>2</sup>
Anzahl Paare	7
Anzahl der Dreier	-
Leiterdurchmesser	0,8 mm
Durchmesser über Isolierung	1,6 mm
Durchmesser über Innenmantel	16,2 mm
Durchmesser über Armierung	17,3 mm
Außendurchmesser Mindestwert	19,1 mm
Maximaler Außendurchmesser	21,1 mm
Nettogewicht ca.	565 kg/km

## Elektrische Eigenschaften

Betriebsspannung	250 V
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## Anwendungsmerkmale

Flammwidrig	EN IEC 60332-3-22 (cat A)
Chemische Beständigkeit	Hydrocarbons resistant
Elektromagnetisch geschirmt	Ja
Betriebstemperatur	-20 ... 60 °C
Max. Betriebstemperatur am Leiter	70 °C
Standard	NFM



Flammwidrig  
EN IEC 60332-3-22 (cat A)



Chemische Beständigkeit  
Hydrocarbons resistant



Elektromagnetisch geschirmt  
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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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