AFNOR NF M 87-202 IOS Armoured Fire retardant

12 IT 05 EI FA

- 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 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (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

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

Chemische Beständigkeit
Hydrocarbons resistant

Elektromagnetisch geschirmt
Ja

Betriebstemp.
-20 ... 60 °C

Max. Betriebstemp. am Leiter
70 °C

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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 mm²
Anzahl Paare	-
Anzahl der Dreier	12
Leiterdurchmesser	0,8 mm
Durchmesser über Isolierung	1,6 mm
Durchmesser über Innenmantel	22,6 mm
Durchmesser über Armierung	23,6 mm
Außendurchmesser Mindestwert	25,4 mm
Maximaler Außendurchmesser	28,0 mm
Nettogewicht ca.	1005 kg/km
Elektrische Eigenschaften	
Betriebsspannung	250 V
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

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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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