



- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant and enhanced resistance to aromatics**

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, in moist areas, where chemical and mechanical protections are needed. The lead cover brings an enhanced resistance to aromatics hydrocarbons.**

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 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (7 x 0.40 mm)

Insulation:

- Polyvinyl chloride (PVC)

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



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



Chemische Beständigkeit
 Hydrocarbons resistant



Marking

NEXANS 279 - Number of pair/triple/quad - IP/IT/IQ 05/09 EG PF IEC 60332-3-22(A) +



Betriebstemp.
 -20 ... 60 °C



Max. Betriebstemp. am Leiter
 70 °C

CHARACTERISTICS

Konstruktionsmerkmale

Leitermaterial	blank
Isolierung	PVC
Gemeinsamer Schirm	Tinned copper drain wire + aluminium/polyester tape
Innenmantel	PVC
Bleimantel	Ja
Armierung	Stahlbaender
Außenmantel	PVC

Abmessungsmerkmale

Leiterquerschnitt	0,88 mm ²
Anzahl Paare	12
Anzahl der Dreier	-
Anzahl der Vierer	-
Leiterdurchmesser	1,2 mm
Durchmesser über Isolierung	2,2 mm
Außendurchmesser Mindestwert	25,2 mm
Maximaler Außendurchmesser	27,8 mm
Nettogewicht ca.	1605 kg/km
Durchmesser über Blei	21,4 mm
Durchmesser über Innenmantel	18,8 mm

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
Ja



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-20 ... 60 °C



Max. Betriebstemp. am Leiter
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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



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



Chemische Beständigkeit
Hydrocarbons resistant



Elektromagnetisch geschirmt
Ja



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