



- 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
 Ja



Betriebstemp.
 -20 ... 60 °C



Max. Betriebstemp. am Leiter
 70 °C

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

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 | 19 |
| Anzahl der Dreier | - |
| Anzahl der Vierer | - |
| Leiterdurchmesser | 1,2 mm |
| Durchmesser über Isolierung | 2,2 mm |
| Außendurchmesser Mindestwert | 30,0 mm |
| Maximaler Außendurchmesser | 33,1 mm |
| Nettogewicht ca. | 2185 kg/km |
| Durchmesser über Blei | 26.1 mm |
| Durchmesser über Innenmantel | 23,3 mm |

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

I 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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