



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

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

Individual screen:

- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester tape

Individual sheath:

- Polyvinyl chloride (PVC)

Overall 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

CONTACT

Market information
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Fire retardant
 EN IEC 60332-3-22 (cat A)



Chemical resistance
 Hydrocarbons resistant and enhanced resistances to aromatics



Pair: natural - red
 Triple: natural - red - blue
 Blue individual sheath printed with pair/triple number



Operating temp.
 20 - 60 °C



Max. conductor temp. in service
 70 °C

Marking

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

CHARACTERISTICS

Construction characteristics

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

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 and enhanced resistances to aromatics
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	NFM

SECTION 0.5MM

Reference Name	Diam. over inner sheath [mm]	Lead cover diameter [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 05 EI PF	11.6	13.8	15.6	17.5	19.3	837
07 IP 05 EI PF	15.8	18.2	20.0	21.9	24.2	1248
07 IT 05 EI PF	17.8	20.4	22.2	24.3	26.8	1549
12 IP 05 EI PF	20.3	22.9	24.7	26.7	29.4	1798
12 IT 05 EI PF	22.6	25.4	27.2	29.3	32.3	2175
19 IP 05 EI PF	25.2	28.2	30.0	32.0	35.3	2552
27 IP 05 EI PF	29.5	32.7	34.5	36.6	40.3	3232



Fire retardant
EN IEC 60332-3-22 (cat A)



Chemical resistance
Hydrocarbons resistant and enhanced resistances to aromatics



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in service
70 °C

SECTION 0.88MM

Reference Name	Diam. over inner sheath [mm]	Lead cover diameter [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 09 EI PF	14.3	16.7	18.5	20.5	22.6	1086
07 IP 09 EI PF	19.2	21.8	23.6	25.6	28.3	1678
07 IT 09 EI PF	21.9	24.7	26.5	28.6	31.6	2074
12 IP 09 EI PF	25.1	28.1	29.9	31.9	35.2	2510
12 IT 09 EI PF	27.8	30.8	32.6	34.7	38.3	2924
19 IP 09 EI PF	30.8	34	35.8	37.8	41.7	3366
27 IP 09 EI PF	36.3	39.9	41.7	43.9	48.5	4500

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)



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Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in service
70 °C