



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

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 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



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



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in service
70 °C

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

CHARACTERISTICS

Individual screen	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Armour type	
Operating voltage	250 V
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Hydrocarbons resistant
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	70 ° C
Standard	NFM

SECTION 0.5MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
03 IP 05 EI FA	11.7	12.7	14.4	15.9	344
07 IP 05 EI FA	16.2	17.3	19.1	21.1	565
07 IT 05 EI FA	17.8	18.8	20.6	22.7	671
12 IP 05 EI FA	20.9	21.9	23.8	26.2	840
12 IT 05 EI FA	22.6	23.6	25.4	28.0	1005
19 IP 05 EI FA	26.1	27.2	29.1	32.1	1205
27 IP 05 EI FA	30.8	31.8	33.8	37.2	1575



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



Chemical resistance
Hydrocarbons resistant



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]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
03 IP 09 EI FA	15.1	15.2	18.5	20.4	465
07 IP 09 EI FA	19.9	21.0	22.9	25.3	792
07 IT 09 EI FA	19.9	21.0	22.9	25.3	792
12 IP 09 EI FA	26	27.1	29.0	32.0	1205
12 IT 09 EI FA	26	27.1	29.0	32.0	1205
19 IP 09 EI FA	31.9	33.0	34.8	38.4	1709
27 IP 09 EI FA	37.7	38.7	40.6	44.8	2275

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)



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C