



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

STANDARDS

Test IEC 60332-3-22 Cat. A

APPLICATIONS

These instrumentation and communication cable are used to transmit analogue or digital signals in measurement and process control where chemicals may be present. 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)

Collective screen:

- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester 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 or triple number

Marking



阻燃
EN IEC 60332-3-22 (cat A)



耐化学物质
Hydrocarbons resistant



抗电磁干扰
是



操作温度
-20 ... 60 ° C



芯线最高静止温度
70 ° C

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

CHARACTERISTICS

结构特性

导体材料	裸铜
绝缘	聚氯乙烯
线对屏蔽	Tinned copper drain wire + aluminium/polyester tape
Individual sheath	PVC
总屏蔽	Tinned copper drain wire + aluminium/polyester tape
外护套	聚氯乙烯

电气特性

工作电压	250 V
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使用特性

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标准	NFM

SECTION 0.5MM

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	03 - IP - 05 - EI - SF	11.2	12.8	185
	07 - IP - 05 - EI - SF	15.2	17.4	295
	07 - IT - 05 - EI - SF	16.8	19.3	385
	12 - IP - 05 - EI - SF	19.8	22.7	500
	12 - IT - 05 - EI - SF	21.5	24.6	695
	19 - IP - 05 - EI - SF	24.8	28.4	840
	27 - IP - 05 - EI - SF	29.3	33.6	1145

SECTION 0.88MM

Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	03 - IP - 09 - EI - SF	13.5	15.5	270
	07 - IP - 09 - EI - SF	18.9	21.7	485
	07 - IT - 09 - EI - SF	20.6	23.7	655
	12 - IP - 09 - EI - SF	24.7	28.3	830
	12 - IT - 09 - EI - SF	26.5	30.4	1045



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Reference	Name	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	19 - IP - 09 - EI - SF	30.3	34.8	1090
	27 - IP - 09 - EI - SF	35.8	41.1	1705

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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