



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil 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.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Individual screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

Core identification

Pair: white - black

White core printed with pair number



Rated Voltage U₀/U (Um)
170/300V



Fire retardant
EN IEC 60332-3-22 (Cat. A)



Oil resistance
EN IEC 60332-3-22 (Cat. A)



Electro magnetic Interference (EMI) shielding
Yes



Operating Temp.
+10...+100°C



Max. conductor temp. in service
90 °C

Marking

NEXANS 279 XLPE/IND+OA SCP/PVC 170/300V Nber of pairs & cross section Cu IEC 60332-3-22 (Cat. A) MM YYYY Manufacturing number + Metric marking

Standards

EN 50288-7 (Design guide-lines)

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no

Dimensional characteristics

Number of pairs	30
Conductor cross-section	1.5 mm ²
Conductor diameter	1.5 mm
Diameter over insulation	2.16 mm
Minimum outer diameter	29.6 mm
Maximum outer diameter	32.6 mm
Approximate weight	1478 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (Um)	170/300V
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	Yes
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	EN

SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) and enhanced hydrocarbon resistance on request.

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U₀/U (Um)
170/300V



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



Oil resistance
Yes



Electro magnetic interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in
service
90 °C