



- 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 U<sub>0</sub>/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. 20+ °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 mm <sup>2</sup>
Conductor diameter	1.28 mm
Diameter over insulation	1.76 mm
Minimum outer diameter	25.2 mm
Maximum outer diameter	27.8 mm
Approximate weight	1072 kg/km

#### Electrical characteristics

Rated Voltage U <sub>0</sub> /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 U<sub>0</sub>/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