



- 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. 20+ °C



Max. conductor temp. in service
90 °C

NEXANS 279 XLPE/IND+OA-SCP/PVC 170/300V Nber of pairs & cross section Cu IEC 60332-3-22 (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 | 2.5 mm ² |
| Conductor diameter | 1.91 mm |
| Diameter over insulation | 2.57 mm |
| Minimum outer diameter | 34.4 mm |
| Maximum outer diameter | 38.0 mm |
| Approximate weight | 2071 kg/km |

Electrical characteristics

| | |
|--------------------------------------|----------|
| Rated Voltage U ₀ /U (Um) | 170/300V |
|--------------------------------------|----------|

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



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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