



**Reference:** 10112064  
**EAN 13:** 3427580200588

### CONTACT

Market information  
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- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- 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:

Solid, stranded or flexible bare copper

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Individual screen:

- Binder tape
- Tinned copper drain wire,
- Aluminium/polyester tape

Binder tape

#### Overall screen:

- Binder tape
- Tinned copper drain wire,
- Aluminium/polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: black – white  
 White core printed with pair number  
 On request: according to PAS 5308 part 1



Rated Voltage U<sub>0</sub>/U (Um)  
**300/500 V**



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



**Marking**  
 Yes



Electro magnetic interference  
 resistance  
 Yes



Operating temp.  
**-20 ... 60 °C**



Max. conductor temp.in  
 service  
**90 °C**

NEXANS 279 XLPE/IND.+OA.SCR/PVC 300/500V Nber of pairs & cross-section Cu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

### Standards

All drawings, designs, specifications, plans and particulars of weights, size and dimensions  
 PAS 5308 Part 1/Type 1 (Design guidelines)  
 EN IEC 60332-3-22  
 BS EN 50290-2-29

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Type of conductor	Solid, Class 1
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	5
Conductor cross-section	1 mm <sup>2</sup>
Conductor diameter	1.14 mm
Diameter over insulation	2.34 mm
Minimum outer diameter	15.7 mm
Maximum outer diameter	17.3 mm
Approximate weight	298 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	300/500 V
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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	PAS

## 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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 resistance  
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