



**Reference:** 10112025  
**EAN 13:** 3427580200199

### CONTACT

Market information  
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- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- Overall Screen (OS)
- **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.**

### Design

#### Conductor:

Solid, stranded or flexible bare copper

#### Insulation:

Cross-linked polyethylene (XLPE)

#### 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

Quad: black - white - red - blue (2 pair cables assembled as a quad)

White core printed with pair number

On request: according to PAS 5308 part 1

### Marking

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

### Standards

PAS 5308 Part 1/type 1 (Design guide-lines)

BS EN 60228-2005

BS EN 50290-2-29



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



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**

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Type of conductor	Solid, Class 1
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no

### Dimensional characteristics

Conductor cross-section	0.5 mm <sup>2</sup>
Number of pairs	5
Conductor diameter	0.8 mm
Diameter over insulation	1.8 mm
Minimum outer diameter	12.3 mm
Maximum outer diameter	13.7 mm
Approximate weight	170 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	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



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



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