



Reference: 10112057
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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 U₀/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
conform to the following standards (Design guidelines)
PAS 5308 Part 1/Type 1 (Design guidelines)
BS EN 60228-2005
BS EN 50290-2-29

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Circular, Flexible, Class 5
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	2
Conductor cross-section	0.5 mm ²
Conductor diameter	0.9 mm
Diameter over insulation	2.1 mm
Minimum outer diameter	11.3 mm
Maximum outer diameter	12.6 mm
Approximate weight	133 kg/km

Electrical characteristics

Rated Voltage U ₀ /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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 300/500 V



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 resistance
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 service
 90 °C