



Reference: 10112024
EAN 13: 3427580200182

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 U₀/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 ²
Number of pairs	2
Conductor diameter	0.8 mm
Diameter over insulation	1.8 mm
Minimum outer diameter	6.5 mm
Maximum outer diameter	7.5 mm
Approximate weight	72 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	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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 EN IEC 60332-3-22 (cat A)



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 resistance
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 -20 ... 60 °C



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 service
 90 °C