



- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Lead free
- Aliphatic and aromatic hydrocarbons 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 in moist areas and where aliphatic and aromatic hydrocarbons may be present. Hypron® offers an alternative to conventional lead covered cable and is an environmental friendly solution.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Binder tape

Bedding

Inner sheath:

Polyvinyl chloride (PVC).

Colour: black.

Overall screen/sealing barrier:

Tinned copper drain wire,

Aluminium backed polyethylene tape

Bedding:

High density polyethylene (PE)

Colour: black

Special sheath (intermediate sheath):

Polyamide

Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.

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

Chemical resistance
Aliphatic and aromatic hydrocarbons resistant

Electro magnetic interference resistance
Yes

Operating temp.
-20 ... 60 °C

Max. conductor temp. in service
90 °C



Lead free
Yes



Rated Voltage Uo/U
(Um)
170/300V



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



Chemical resistance
Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
90 °C

Core identification

Pair: white - black

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

All white cores printed with pair numbers

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Marking

NEXANS 279 XLPE/PVC/AL/HDPE/NC/PVC 170/300V Nber of pairs & cross-section

CONTACT

Market information
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ogroup.com

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Inner sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	High-density polyethylene (PE)
Intermediate sheath	Polyamide
Outer sheath	PVC
Lead free	Yes
Protection	no

Dimensional characteristics

Number of pairs	1
Conductor cross-section	0.75 mm ²
Conductor diameter	1.1 mm
Diameter over insulation	1.58 mm
Diameter over inner sheath	6 mm
Diameter over intermediate sheath	9.2 mm
Minimum outer diameter	14.8 mm
Maximum outer diameter	16.3 mm
Approximate weight	282 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	170/300V
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
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) on request.

Minimum bending radius:



Lead free
Yes



Rated Voltage U₀/U
(U_m)
170/300V



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



Chemical resistance
Aliphatic and
aromatic
hydrocarbons
resistant



Electro magnetic
interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
service
90 °C

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Lead free
Yes



Rated Voltage U_o/U
(U_m)
170/300V



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



Chemical resistance
Aliphatic and
aromatic
hydrocarbons
resistant



Electro magnetic
interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
service
90 °C