



Reference: 10134921
EAN 13: 3427580319624

CONTACT

Market information
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- Instrumentation cables 170/300 V
- With lead cover (LC)
- Overall Screen (OS)
- Aliphatic and aromatic hydrocarbons resistant

STANDARDS

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These instrumentation and communication cables are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use** in industrial applications, in moist areas, where **hydrocarbon and mechanical protection are needed**. The **lead cover brings an enhanced resistance to aromatics hydrocarbons**.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

Overall screen:

Polyester tape

Tinned copper drain wire,

Aluminium backed polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

Lead sheath:

Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

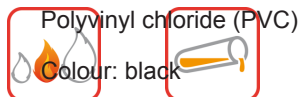
Outer sheath:



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



Mechanical
resistance to
impacts
Good



Polyvinyl chloride (PVC)
Colour: black



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



Electro magnetic
interference
resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor
temp. in service
90 °C



Min. dynamic
operating bending
rad.
314.0 mm

Core identification

Pair: white - black

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

All white cores designed with pair number and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.

Marking

NEXANS 279 XLPE/OA.SCR/PVC//LC/PVC/SWA/PVC 170/300V Nber of pairs & cross-

CHARACTERISTICS

Construction characteristics

| | |
|---------------------|---|
| Conductor material | Bare copper |
| Type of conductor | Stranded, class 2 |
| Insulation | XLPE (Cross-linked Polyethylene) |
| Overall screen | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath | PVC |
| Lead Sheath | Yes |
| Intermediate sheath | PVC |
| Armour type | Galvanized steel wires |
| Outer sheath | PVC |
| Protection | Yes |

Dimensional characteristics

| | |
|-----------------------------------|-------------------|
| Number of pairs | 20 |
| Conductor cross-section | 1 mm ² |
| Conductor diameter | 1.28 mm |
| Diameter over insulation | 1.76 mm |
| Diameter over inner sheath | 19 mm |
| Diameter over lead sheath | 21.4 mm |
| Diameter over intermediate sheath | 23.4 mm |
| Diameter over armour | 25.9 mm |
| Minimum outer diameter | 28.4 mm |
| Maximum outer diameter | 31.4 mm |
| Approximate weight | 2223 kg/km |

Electrical characteristics

| | |
|--------------------------------------|----------|
| Rated Voltage U ₀ /U (Um) | 170/300V |
|--------------------------------------|----------|

Mechanical characteristics

| | |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

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 |
| Minimum dynamic operating bending radius | 314.0 mm |
| Standard | EN |



Rated Voltage U₀/U (Um)
170/300V



Mechanical resistance to impacts
Good



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



Min. dynamic operating bending rad.
314.0 mm

SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) on request.

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U₀/U
(Um)
170/300V



Mechanical
resistance to
impacts
Good



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



Min. dynamic
operating bending
rad.
314.0 mm