# EN 50288-7 Hypron® XLPE Insulation OS Unarmoured Fire Retardant

**EN 50288-7 Hypron® XLPE OS Unarmoured 1x2x1**

- 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.

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)
White core printed with pair number

## Marking

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

## CONTACT

Market information
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## 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 | 1 mm² |
| Conductor diameter | 1.28 mm |
| Diameter over insulation | 1.76 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 | 284 kg/km |
| **Electrical characteristics** | |
| Rated Voltage Uo/U (Um) | 170/300V |
| **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 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**

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request


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**