

# EN 50288-7 XLPE Insulation IOS Unarmoured Fire Retardant

EN 50288-7 XLPE insulation IOS Unarmoured 5x2x0,75

## Contact

Market information  
industryprojects.business@nexans.com

Nexans Ref.: 10193092  
EAN 13: 3427580556432

- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- Oil resistant

## DESCRIPTION

### 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:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Individual screen:

Polyester tape  
Tinned copper drain wire,  
Aluminium backed polyester tape  
Polyester tape

#### Overall screen:

Polyester tape  
Tinned copper drain wire  
Aluminium backed polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC).  
Colour: black.



## STANDARDS

International  
IEC 60332-3-22 Cat.A



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



Fire retardant  
IEC 60332-3-22



Oil resistance  
Yes



Electro magnetic interference  
resistance  
Yes



Operating temp.  
-20 - 60 °C



Max. conductor temp.in  
service  
90 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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Other colour on request.

## Core identification

Pair: white - black

White core printed with pair number

## Marking

NEXANS 279 XLPE/IND.+OA.SCR/PVC 170/300V Nber of pairs & cross-section  
Cu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

## Standards

EN 50288-7 (Design guide-lines)

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, Class 2
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	5
Conductor cross-section	0.75 mm <sup>2</sup>
Conductor diameter	1.1 mm
Diameter over insulation	1.58 mm
Minimum outer diameter	12.0 mm
Maximum outer diameter	13.2 mm
Approximate weight	212 kg/km

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U (Um)	170/300V
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Fire retardant  
IEC 60332-3-22



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### Usage characteristics

Fire retardant	IEC 60332-3-22
Oil resistance	Yes
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) 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



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



Fire retardant  
IEC 60332-3-22



Oil resistance  
Yes



Electro magnetic interference  
resistance  
Yes



Operating temp.  
-20 - 60 °C



Max. conductor temp.in  
service  
90 °C

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