

# EN 50288-7 XLPE Insulation OS Armoured Fire Retardant

EN 50288-7 XLPE OS Armoured 30x2x2,5

## Contact

Market information  
industryprojects.business@nexans.com

- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Oil resistant

## DESCRIPTION

### Applications

These instrumentation and communication cable are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use in industrial application where chemical and mechanical protections are needed (refinery areas, chemical plan...)**.

### 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

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC).

Colour: black.

Other colour on request.



## STANDARDS

**International**  
IEC 60332-3-22 Cat.A

## Core identification



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



Mechanical resistance  
to impacts  
Good



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.

Generated 1/17/22 www.nexans.fr Page 1 / 3

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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/OA.SCR/PVC/SWA/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)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes

### Dimensional characteristics

Number of pairs	30
Conductor cross-section	2.5 mm <sup>2</sup>
Conductor diameter	1.91 mm
Diameter over insulation	2.57 mm
Diameter over inner sheath	32.5 mm
Diameter over armour	35.7 mm
Minimum outer diameter	38.5 mm
Maximum outer diameter	42.5 mm
Approximate weight	3022 kg/km

### Electrical characteristics

Rated Voltage U <sub>o</sub> /U (Um)	170/300V
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Rated Voltage U<sub>o</sub>/U (Um)  
170/300V



Mechanical resistance to impacts  
Good



Fire retardant  
IEC 60332-3-22



Oil resistance  
Yes



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 - 60 °C



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### Mechanical characteristics

Mechanical resistance to impacts Good

### 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



Mechanical resistance to impacts  
Good



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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Generated 1/17/22 www.nexans.fr Page 3 / 3