

EN 50288-7 XLPE Insulation IOS Unarmoured Fire Retardant

EN 50288-7 XLPE insulation IOS Unarmoured 2x2x1

Contact

Market information
industryprojects.business@nexans.com

Nexans Ref.: 10134695
EAN 13: 3427580317460

- 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 | 2 |
| Conductor cross-section | 1 mm ² |
| Conductor diameter | 1.28 mm |
| Diameter over insulation | 1.76 mm |
| Minimum outer diameter | 10.3 mm |
| Maximum outer diameter | 11.3 mm |
| Approximate weight | 134 kg/km |

Electrical characteristics

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



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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



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170/300V



Fire retardant
IEC 60332-3-22



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Max. conductor temp.in
service
90 °C

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