

EN 50288-7 XLPE Insulation IOS Unarmoured Fire Retardant

EN 50288-7 XLPE insulation IOS Unarmoured 30x2x0,5

Contact

Market information
industryprojects.business@nexans.com

- 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.

Other colour on request.

Core identification



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



STANDARDS

International
IEC 60332-3-22 Cat.A

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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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	30
Conductor cross-section	0.5 mm ²
Conductor diameter	0.9 mm
Diameter over insulation	1.38 mm
Minimum outer diameter	20.8 mm
Maximum outer diameter	22.9 mm
Approximate weight	687 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



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Usage characteristics

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



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IEC 60332-3-22



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Max. conductor temp.in
service
90 °C

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