EN 50288-7 XLPE Insulation IOS Unarmoured Fire Retardant

EN 50288-7 XLPE insulation IOS Unarmoured 2x2x2,5

Contact
Market information
industryprojects.business@nexans.com

Nexans Ref.: 10193117
EAN 13: 3427580556685

- 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

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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	2.5 mm²
Conductor diameter	1.91 mm
Diameter over insulation	2.57 mm
Minimum outer diameter	13.1 mm
Maximum outer diameter	14.4 mm
Approximate weight	234 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	170/300V

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IEC 60332-3-22

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Electro magnetic interference resistance
Yes

Operating temp.
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Max.conductor temp.in service
90 °C

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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