

EN 50288-7 XLPE Insulation OS Armoured Fire Retardant

EN 50288-7 XLPE OS Armoured 30x2x0,75

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.

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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	0.75 mm ²
Conductor diameter	1.1 mm
Diameter over insulation	1.58 mm
Diameter over inner sheath	20.7 mm
Diameter over armour	23.2 mm
Minimum outer diameter	25.8 mm
Maximum outer diameter	28.5 mm
Approximate weight	1280 kg/km

Electrical characteristics

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



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