EN 50288-7 Silicone Insulation IOS Armoured Fire resistant

EN 50288-7 Silicone IOS Armoured 30x2x2,5

- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil resistant**

STANDARDS

Test IEC 60331; IEC 60332-3-22 Cat.A

APPLICATIONS

These Instrumentation and communication are used to **transmit analogue or digital signals in measurement and process control** They are well adapted to**underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...). The individual screening of each pair limits the consequence of crosstalk. They maintain circuit integrity when exposed to fire.**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Silicone rubber (Sil)

Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium/polyester tape

Inner sheath:

Low Smoke Zero Halogen (LSZH)

Armour:

Galvanized steel wires (SWA)

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

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

Mechanical resistance to impacts
Good

Fire resistant
IEC 60331

Fire retardant
EN IEC 60332-3-22 (cat A)

Oil resistance
Yes

Electro magnetic interference resistance
Yes

Operating temp.
-20 ... 60 °C

Max.conductor temp.in service
90 °C

Core identification

Pair: white - black

White core printed with pair number

Marking

NEXANS 279 SIL/IND.+OA.SCR/LSZH/SWA/PVC 170/300V Nber of pairs & cross-section Cu IEC 60331 IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

CONTACT

Market information
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CHARACTERISTICS

Construction characteristics	
Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	Silicone rubber
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	Low smoke, zero halogen thermoplastic compound
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes
Dimensional characteristics	
Number of pairs	30
Conductor cross-section	2.5 mm²
Conductor diameter	1.91 mm
Diameter over insulation	3.07 mm
Diameter over inner sheath	40.3 mm
Diameter over armour	43.5 mm
Minimum outer diameter	43.1 mm
Maximum outer diameter	50.3 mm
Approximate weight	3953 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	170/300V
Mechanical characteristics	
Mechanical resistance to impacts	Good
Usage characteristics	
Fire resistant	IEC 60331
Fire retardant	EN IEC 60332-3-22 (cat A)
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.


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


Mechanical resistance to impacts
Good

Fire resistant
IEC 60331


Fire retardant
EN IEC 60332-3-22 (cat A)


Oil resistance
Yes


Electro magnetic interference resistance
Yes


Operating temp.
-20 ... 60 °C


Max.conductor temp.in service
90 °C

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 resistant
IEC 60331

Fire retardant
EN IEC 60332-3-22 (cat A)

Oil resistance
Yes

Electro magnetic interference resistance
Yes

Operating temp.
-20 ... 60 °C

Max.conductor temp.in service
90 °C