# EN 50288-7 Silicone Insulation OS Armoured Fire resistant

**EN 50288-7 Silicone OS Armoured 20x2x0,5**

**Reference:** 10135085
**EAN 13:** 3427580321269

## CONTACT

Market information
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- Instrumentation cables 170/300 V
- Overall Screen (OS)
- **Oil resistant**

## STANDARDS

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

## 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 plant…). They maintain circuit integrity when exposed to fire**.

## Design

Conductor:

Stranded bare copper class 2

Insulation:

Silicone rubber (Sil)

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Bedding (inner sheath):

Low Smoke Zero Halogen (LSZH)

Colour: black

Armour:

Galvanized steel wires (SWA)

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

## Core identification

Pair: white - black
Quad: white - black - red - blue (2 pair cables assembled as a quad)
White core printed with pair number


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**

## Marking

NEXANS 279 SIL/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

## Standards

EN 50288-7 (Design guidelines)

# EN 50288-7 Silicone Insulation OS Armoured Fire resistant

**EN 50288-7 Silicone OS Armoured 20x2x0,5**

## CHARACTERISTICS

| | |
|---|---|
| **Construction characteristics** | |
| Conductor material | Bare copper |
| Type of conductor | Stranded, class 2 |
| Insulation | Silicone rubber |
| 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 | 20 |
| Conductor cross-section | 0.5 mm² |
| Conductor diameter | 0.9 mm |
| Diameter over insulation | 2.06 mm |
| Diameter over inner sheath | 21.9 mm |
| Diameter over armour | 24.4 mm |
| Minimum outer diameter | 25.0 mm |
| Maximum outer diameter | 29.2 mm |
| Approximate weight | 1178 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.

Minimum bending radius:


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**

15 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**