



- 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

CONTACT

Market information
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U₀/U
(Um)
170/300V



Mechanical
resistance to
impacts
Good

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

Fire
retardant
IEC 60331

Fire retardant
EN IEC
60332 - 3 - 22 (cat

Oil resistance
Yes

Electro magnetic
interference
resistance
Yes

Operating temp.
- 20 ... 60 ° C

Max. conductor
temp.in service
90 ° C

Standards

EN 50288 - 7 (Design guide - lines)

CHARACTERISTICS

2 ()

| | |
|--|---|
| Overall screen | Tinned copper drain wire + aluminium/polyester tape Low smoke, zero halogen thermoplastic compound |
| Armour type | |
| Protection | Yes |
| 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 |
| 操作度范 | - 20 ... 60 ° C |
| Max. conductor temperature in service | 90 ° C |
| Standard | EN |

SECTION 0.5MM²

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| 10135079 | 1 | 0.9 | 2.06 | 6.2 | 8.0 | 9.8 | 11.4 | 222 |
| 10135080 | 2 | 0.9 | 2.06 | 7 | 8.8 | 10.5 | 12.2 | 261 |
| | 5 | 0.9 | 2.06 | 12.5 | 14.3 | 15.9 | 18.5 | 468 |
| | 10 | 0.9 | 2.06 | 16.6 | 18.4 | 19.4 | 22.7 | 683 |
| 10135085 | 20 | 0.9 | 2.06 | 21.9 | 24.4 | 25.0 | 29.2 | 1178 |
| | 30 | 0.9 | 2.06 | 26.3 | 28.8 | 29.2 | 34.0 | 1540 |

SECTION 0.75MM²

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| 10135087 | 1 | 1.1 | 2.26 | 6.6 | 8.4 | 10.1 | 11.8 | 237 |
| 10135088 | 2 | 1.1 | 2.26 | 7.5 | 9.3 | 11.1 | 13.0 | 286 |



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

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| | 5 | 1.1 | 2.26 | 13.5 | 15.3 | 16.8 | 19.6 | 519 |
| | 10 | 1.1 | 2.26 | 18 | 20.5 | 21.3 | 24.9 | 895 |
| 10135093 | 20 | 1.1 | 2.26 | 23.5 | 26.0 | 26.6 | 31.1 | 1368 |
| | 30 | 1.1 | 2.26 | 29 | 32.2 | 32.4 | 37.8 | 2010 |

SECTION 1.0MM²

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| 10135095 | 1 | 1.28 | 2.44 | 7 | 8.8 | 10.5 | 12.2 | 254 |
| 10135096 | 2 | 1.28 | 2.44 | 7.9 | 9.7 | 11.5 | 13.4 | 315 |
| | 5 | 1.28 | 2.44 | 14.4 | 16.2 | 17.7 | 20.5 | 575 |
| | 10 | 1.28 | 2.44 | 19.2 | 21.7 | 22.4 | 26.2 | 1002 |
| 10135101 | 20 | 1.28 | 2.44 | 25.2 | 27.7 | 28.2 | 32.9 | 1552 |
| | 30 | 1.28 | 2.44 | 31 | 34.2 | 34.2 | 39.9 | 2287 |

SECTION 1.5MM²

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| 10135103 | 1 | 1.5 | 2.66 | 7.4 | 9.2 | 11.0 | 12.8 | 288 |
| 10135104 | 2 | 1.5 | 2.66 | 8.5 | 10.3 | 12.0 | 14.0 | 351 |
| | 5 | 1.5 | 2.66 | 15.5 | 17.3 | 18.7 | 21.7 | 670 |
| | 10 | 1.5 | 2.66 | 20.9 | 23.4 | 24.1 | 28.1 | 1211 |
| 10135109 | 20 | 1.5 | 2.66 | 28 | 31.2 | 31.5 | 36.8 | 2101 |
| | 30 | 1.5 | 2.66 | 33.6 | 36.8 | 36.7 | 42.8 | 2800 |

SECTION 2.5MM²

| Reference | nb pairs | [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | ([kg/km]) |
|-----------|----------|------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|-------------|
| | 1 | 1.91 | 3.07 | 8.3 | 10.1 | 11.9 | 13.8 | 337 |
| | 2 | 1.91 | 3.07 | 9.5 | 11.3 | 13.0 | 15.1 | 424 |
| | 5 | 1.91 | 3.07 | 17.6 | 20.1 | 21.4 | 24.9 | 964 |
| | 10 | 1.91 | 3.07 | 23.6 | 26.1 | 26.7 | 31.2 | 1510 |
| | 20 | 1.91 | 3.07 | 31.8 | 35.0 | 35.1 | 41.0 | 2672 |
| | 30 | 1.91 | 3.07 | 38.7 | 41.9 | 41.7 | 48.6 | 3678 |



Uo/U
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

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:

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



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