PAS 5308 Part 1/Type 1 OS Fire retardant

- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- Overall Screen (OS)
- **Oil resistant**

STANDARDS

Test 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 where chemicals may be present**.

Design

Conductor:

Solid, stranded or flexible bare copper

Insulation:

Cross-linked polyethylene (XLPE)

Overall screen:

Binder tape

Tinned copper drain wire,

Aluminium/polyester tape

Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

Core identification

Pair: black - white
Quad: black - white - red - blue (2 pair cables assembled as a quad)
White core printed with pair number
On request: according to PAS 5308 part 1

Marking

NEXANS 279 XLPE/OA.SCR/PVC 300/500V Nber of pairs & cross-section Cu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

Standards

PAS 5308 Part 1/type 1 (Design guide-lines)
BS EN 60228-2005
BS EN 50290-2-29

Rated Voltage Uo/U (Um)
300/500 V

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

CONTACT

Market information
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All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxeo is indicative only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

PAS 5308 Part 1/Type 1 OS Fire retardant

CHARACTERISTICS

Construction characteristics	
Conductor material	Bare copper
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no
Electrical characteristics	
Rated Voltage Uo/U (Um)	300/500 V
Usage characteristics	
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	PAS

CLASS 1 0.5 MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.8	1.8	5.7	6.6	54
2	0.8	1.8	6.5	7.5	72
5	0.8	1.8	12.3	13.7	170
10	0.8	1.8	15.9	17.5	313
20	0.8	1.8	20.3	22.4	529
30	0.8	1.8	24.2	26.6	760

CLASS 5 0.5 MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.9	2.1	6.3	7.3	60
2	0.9	2.1	7.2	8.2	78
5	0.9	2.1	13.8	15.3	182
10	0.9	2.1	17.8	19.7	374
20	0.9	2.1	23.1	25.5	637
30	0.9	2.1	27.5	30.3	919


Rated Voltage Uo/U (Um)
300/500 V


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

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CLASS 2 0.75 MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.1	2.3	6.7	7.7	70
2	1.1	2.3	7.6	8.7	94
5	1.1	2.3	14.8	16.4	226
10	1.1	2.3	19.2	21.2	469
20	1.1	2.3	25.0	27.6	821
30	1.1	2.3	29.7	32.7	1181

CLASS 1 1 MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.14	2.34	6.8	7.8	75
2	1.14	2.34	7.7	8.8	103
5	1.14	2.34	15.0	16.6	248
10	1.14	2.34	19.5	21.5	513
20	1.14	2.34	25.3	27.9	906
30	1.14	2.34	30.3	33.4	1320

CLASS 2 1.5 MM²

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.5	2.7	7.5	8.5	95
2	1.5	2.7	8.6	9.7	135
5	1.5	2.7	16.8	18.5	326
10	1.5	2.7	21.9	24.2	682

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)
300/500 V


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

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