PAS 5308 Part 1/Type 1 IOS Fire retardant

- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- Individual & Overall Screen (IOS)
- **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. The individual screening of each pair limits the consequence of crosstalk.**.

Design

Conductor:

Solid, stranded or flexible bare copper

Insulation:

Cross-linked polyethylene (XLPE)

Individual screen:

Binder tape

Tinned copper drain wire,

Aluminium/polyester tape

Binder tape

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
White core printed with pair number
On request: according to PAS 5308 part 1

Marking

NEXANS 279 XLPE/IND.+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 guidelines)
BS EN 60228-2003
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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PAS 5308 Part 1/Type 1 IOS Fire retardant

CHARACTERISTICS

Construction characteristics	
Conductor material	Bare copper
Insulation	XLPE (Cross-linked Polyethylene)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
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]
2	0.8	1.8	10.2	11.5	121
5	0.8	1.8	13.0	14.4	210
10	0.8	1.8	16.8	18.5	390
20	0.8	1.8	21.6	23.9	684
30	0.8	1.8	25.6	28.2	985

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]
2	0.9	2.1	11.3	12.6	133
5	0.9	2.1	14.5	16.1	232
10	0.9	2.1	18.8	20.8	462
20	0.9	2.1	24.3	26.9	812
30	0.9	2.1	29.0	32.0	1174


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

PAS 5308 Part 1/Type 1 IOS Fire retardant

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]
2	1.1	2.3	12.0	13.4	154
5	1.1	2.3	15.5	17.1	276
10	1.1	2.3	20.2	22.3	569
20	1.1	2.3	26.2	28.9	1013
30	1.1	2.3	31.2	34.5	1473

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]
2	1.14	2.34	12.2	13.6	164
5	1.14	2.34	15.7	17.3	298
10	1.14	2.34	20.5	22.6	612
20	1.14	2.34	26.6	29.3	1098
30	1.14	2.34	31.8	35.1	1606

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]
2	1.5	2.7	13.5	15.0	197
5	1.5	2.7	17.5	19.3	377
10	1.5	2.7	23.0	25.4	786
20	1.5	2.7	29.9	33.0	1415

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