



- 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 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. 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 backed polyester tape

Polyester tape

#### Overall screen:

Polyester tape

Tinned copper drain wire

Copper backed polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: white - black

White core printed with pair number



Rated Voltage U<sub>o</sub>/U  
(Um)  
170/300V



Fire resistant  
IEC 60331



EN 50288-7 SILIND. OA.SCR/PVC 170/300V No. of pairs & cross section Cu IEC  
60331 IEC 60332-3-22(A) MM YYY Manufacturing number + metric marking  
(cat A) Yes Yes



### Standards

EN 50288-7 (Design guide-lines)

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### CONTACT

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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 + copper polyester tape
Outer sheath	PVC
Protection	no

#### Dimensional characteristics

Number of pairs	30
Conductor cross-section	1 mm <sup>2</sup>
Conductor diameter	1.28 mm
Diameter over insulation	2.44 mm
Minimum outer diameter	30.6 mm
Maximum outer diameter	35.7 mm
Approximate weight	1388 kg/km

#### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	170/300V
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#### 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:

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U<sub>0</sub>/U (Um)  
170/300V



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