



- 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_o/U
(Um)
170/300V



Fire resistant
IEC 60331



Marking



Oil resistant



Electric magnetic
interference resistance



Operating temperature



Cross section

EN 50288-7 SILIND. OA.SCR/PVC 170/300V No. of pairs & cross section Cu IEC
60331 IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking
(cat A) Yes Yes 20 60°C 90°C

Standards

EN 50288-7 (Design guide-lines)

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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	5
Conductor cross-section	0.5 mm ²
Conductor diameter	0.9 mm
Diameter over insulation	2.06 mm
Minimum outer diameter	13.6 mm
Maximum outer diameter	15.8 mm
Approximate weight	244 kg/km

Electrical characteristics

Rated Voltage U ₀ /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 U₀/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