



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- With lead cover (LC)
- Individual & Overall Screen (IOS)
- Aliphatic and aromatic hydrocarbons resistant

### STANDARDS

Test IEC 60331; IEC 60332 - 3 - 22 Cat.A

### APPLICATIONS

These instrumentation and communication cables are used to transmit analogue or digital signals in measurement and process control. They are well adapted to underground use in industrial applications, in moist areas, where hydrocarbon and mechanical protection are needed. The lead cover brings an enhanced resistance to aromatics hydrocarbons. 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

Aluminium backed polyester tape

#### Inner sheath:

Low Smoke Zero Halogen (LSZH)

Colour: black

#### Lead sheath:

#### Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

#### Armour:

Galvanized steel wires (SWA)

Fire resistant  
IEC 60331

Fire retardant  
IEC 60332 - 3 - 22 (cat A)

Chemical resistance  
Aliphatic and aromatic hydrocarbons resistant

Electro magnetic interference resistance  
Yes

Operating temp.  
- 20 ... 60 ° C

Max. conductor temp. in service  
90 ° C

Polyvinyl chloride (PVC)

Colour: black

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Pair: white - black



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



Mechanical resistance to impacts  
Good



Fire resistant  
IEC 60331



Fire retardant  
IEC 60332 - 3 - 22 (cat A)



Chemical resistance  
Aliphatic and aromatic hydrocarbons resistant



Electro magnetic interference resistance  
Yes



Operating temp.  
- 20 ... 60 ° C



Max. conductor temp. in service  
90 ° C

## CHARACTERISTICS

2 ( )

Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape Low smoke, zero halogen thermoplastic compound
Lead Sheath	Yes
Intermediate sheath	PVC
Armour type	
Protection	Yes
Number of pairs	10
	2.5 mm <sup>2</sup>
	1.91 mm
Diameter over insulation	3.07 mm
Diameter over inner sheath	24.6 mm
Diameter over lead sheath	27.2 mm
Diameter over intermediate sheath	29.6 mm
Diameter over armour	32.8 mm
Minimum outer diameter	32.9 mm
Maximum outer diameter	38.4 mm
( )	3336 kg/km
U <sub>0</sub> /U (U <sub>m</sub> )	170/300V
Mechanical resistance to impacts	Good
Fire resistant	IEC 60331
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Electro magnetic interference resistance	Yes
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	90 ° C
Standard	EN



U<sub>0</sub>/U  
(U<sub>m</sub>)  
170/300V



Mechanical  
resistance to  
impacts  
Good



Fire resistant  
IEC 60331



Fire retardant  
EN IEC  
60332 - 3 - 22 (cat  
A)



Chemical  
resistance  
Aliphatic and  
aromatic  
hydrocarbons  
resistant



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) on request.

Minimum bending radius:

10 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)



Chemical  
resistance  
Aliphatic and  
aromatic  
hydrocarbons  
resistant



Electro magnetic  
interference  
resistance  
Yes



Operating temp.  
- 20 ... 60 ° C



Max. conductor  
temp. in service  
90 ° C