



### 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 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**

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### 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:

Polyvinyl chloride (PVC)

Colour: black

#### Lead sheath:

#### Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

Fire retardant  
EN IEC 60332-3-22  
Cat.A

Chemical resistance  
**Aliphatic and  
aromatic  
hydrocarbons  
resistant**

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.



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



Mechanical resistance  
to impacts  
**Good**



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**

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Bare copper
Type of conductor	Stranded, class 2
Insulation	XLPE (Cross-linked Polyethylene)
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Lead Sheath	Yes
Intermediate sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Protection	Yes

#### Dimensional characteristics

Number of pairs	5
Conductor cross-section	0.5 mm <sup>2</sup>
Conductor diameter	0.9 mm
Diameter over insulation	1.38 mm
Diameter over inner sheath	9.8 mm
Diameter over lead sheath	11.6 mm
Diameter over intermediate sheath	13.6 mm
Diameter over armour	15.4 mm
Minimum outer diameter	17.8 mm
Maximum outer diameter	19.7 mm
Approximate weight	867 kg/km

#### Electrical characteristics

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

Mechanical resistance to impacts	Good
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#### Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	EN



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



Mechanical resistance to impacts  
Good



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



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



Mechanical resistance  
to impacts  
**Good**



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**