



### CONTACT

Market information  
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- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- Lead free
- **Aliphatic and aromatic hydrocarbons 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 in moist areas and where aliphatic and aromatic hydrocarbons may be present. The individual screening of each pair limits the consequence of crosstalk. Hypron® offers an alternative to conventional lead covered cable and is an environmental friendly solution.**

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Individual screen:

Binder tape

Tinned copper drain wire

Aluminium backed polyester tape

Binder tape

#### Binder tape

#### Bedding

#### Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

#### Overall screen/sealing barrier:

Tinned copper drain wire

Aluminium backed polyethylene tape

#### Bedding:

High density polyethylene (PE)

Colour: black

#### Special sheath (intermediate sheath):

EN IEC 60332-3-22

(cat A)

Polyamide

Aliphatic and  
aromatic  
hydrocarbons  
resistant



Electro magnetic  
interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in  
service  
90 °C



Lead free  
Yes



Rated Voltage Uo/U  
(Um)  
170/300V

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request

## 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
Inner sheath	PVC
Overall screen	Tinned copper drain wire + aluminium/polyethylene tape
Material of bedding	High-density polyethylene (PE)
Intermediate sheath	Polyamide
Outer sheath	PVC
Lead free	Yes
Protection	no

### Dimensional characteristics

Number of pairs	20
Conductor cross-section	1 mm <sup>2</sup>
Conductor diameter	1.28 mm
Diameter over insulation	1.76 mm
Diameter over inner sheath	20.5 mm
Diameter over intermediate sheath	24.2 mm
Minimum outer diameter	29.3 mm
Maximum outer diameter	32.3 mm
Approximate weight	1147 kg/km

### Electrical characteristics

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

## SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) on request.

Minimum bending radius:



Lead free  
Yes



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



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

15 x outer diameter  
 To be doubled during laying operations

Tinned copper conductors available on request



Lead free  
**Yes**



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



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**