



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

#### Outer sheath:

Polyvinyl chloride (PVC)

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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                   | 5                    |
| Conductor cross-section           | 0.75 mm <sup>2</sup> |
| Conductor diameter                | 1.1 mm               |
| Diameter over insulation          | 1.58 mm              |
| Diameter over inner sheath        | 11.2 mm              |
| Diameter over intermediate sheath | 14.5 mm              |
| Minimum outer diameter            | 19.9 mm              |
| Maximum outer diameter            | 21.9 mm              |
| Approximate weight                | 469 kg/km            |

### Electrical characteristics

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

### 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>o</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