



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 | 10 |
| Conductor cross-section | 0.5 mm² |
| Conductor diameter | 0.9 mm |
| Diameter over insulation | 1.38 mm |
| Diameter over inner sheath | 13.1 mm |
| Diameter over intermediate sheath | 16.6 mm |
| Minimum outer diameter | 21.9 mm |
| Maximum outer diameter | 24.2 mm |
| Approximate weight | 571 kg/km |

Electrical characteristics

| | |
|---|----------|
| Rated Voltage U ₀ /U (U _m) | 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 U₀/U
(U_m)
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 U₀/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