



- Instrumentation cables 170/300 V
- Overall Screen (OS)
- Lead free
- 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 in moist areas and where aliphatic and aromatic hydrocarbons may be present.** They are well adapted to **underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).** Hypron® offers an **alternative to conventional lead sheathed cable and is an environmental friendly solution..**

Design

Conductor:

Stranded bare copper class 2

Insulation:

Cross-linked polyethylene (XLPE)

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):

Polyamide

Armour:

Galvanized steel wires (SWA)

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

Chemical resistance
Aliphatic and aromatic hydrocarbons resistant

Colour: black

Other colour on request

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Core identification

Pair: white - black

CONTACT

Market information
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Lead free
Yes



Rated Voltage U₀/U_m
(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) |
| Inner sheath | PVC |
| Overall screen | Tinned copper drain wire + aluminium/polyethylene tape |
| Material of bedding | High-density polyethylene (PE) |
| Intermediate sheath | Polyamide |
| Armour type | Galvanized steel wires |
| Outer sheath | PVC |
| Lead free | Yes |
| Protection | Yes |

Dimensional characteristics

| | |
|-----------------------------------|---------------------|
| Number of pairs | 20 |
| Conductor cross-section | 0.5 mm ² |
| Conductor diameter | 0.9 mm |
| Diameter over insulation | 1.38 mm |
| Diameter over inner sheath | 15.6 mm |
| Diameter over intermediate sheath | 19.3 mm |
| Diameter over armour | 21.8 mm |
| Minimum outer diameter | 27.0 mm |
| Maximum outer diameter | 29.7 mm |
| Approximate weight | 1182 kg/km |

Electrical characteristics

| | |
|--------------------------------------|----------|
| Rated Voltage U ₀ /U (Um) | 170/300V |
|--------------------------------------|----------|

Mechanical characteristics

| | |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

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 |



Lead free
Yes



Rated Voltage U₀/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:

15 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



Lead free
Yes



Rated Voltage U₀/U_m
170/300V



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



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**Aliphatic and
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Electro magnetic
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-20 ... 60 °C



Max. conductor
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90 °C