



- 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)

#### Outer sheath:

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

Polyvinyl chloride (PVC)

Colour: black

Other colour on request

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### Core identification

Pair: white - black

### CONTACT

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Lead free  
Yes



Rated Voltage U<sub>0</sub>/U<sub>m</sub>  
(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	1
Conductor cross-section	0.5 mm <sup>2</sup>
Conductor diameter	0.9 mm
Diameter over insulation	1.38 mm
Diameter over inner sheath	6 mm
Diameter over intermediate sheath	9.2 mm
Diameter over armour	11.0 mm
Minimum outer diameter	16.5 mm
Maximum outer diameter	18.2 mm
Approximate weight	467 kg/km

#### Electrical characteristics

Rated Voltage U <sub>0</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



Lead free  
Yes



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

**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 U<sub>0</sub>/U<sub>m</sub>  
(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**