



- 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.** They are well adapted to **underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).** The individual screening of each pair limits the consequence of crosstalk. 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)

Individual screen:

Binder tape

Tinned copper drain wire

Aluminium/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



Lead free  
Yes



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



Bedding:  
High density polyethylene (PE)



Colour: black  
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

Special sheath (intermediate sheath):  
Polyamide

Armour:

Galvanized steel wires (SWA)

Outer sheath:

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### CONTACT

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### 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
Armour type	Galvanized steel wires
Outer sheath	PVC
Lead free	Yes
Protection	Yes

#### 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
Diameter over armour	26.7 mm
Minimum outer diameter	31.7 mm
Maximum outer diameter	35.0 mm
Approximate weight	1781 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>i</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**