



Reference: 10187867
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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.** 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 U₀/U_m
(Um)
170/300V



Bedding:
High density polyethylene (PE)



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



Special sheath (intermediate sheath):
Polyamide
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)
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	10
Conductor cross-section	2.5 mm ²
Conductor diameter	1.91 mm
Diameter over insulation	2.57 mm
Diameter over inner sheath	21.4 mm
Diameter over intermediate sheath	25 mm
Diameter over armour	27.5 mm
Minimum outer diameter	32.5 mm
Maximum outer diameter	35.8 mm
Approximate weight	1850 kg/km

Electrical characteristics

Rated Voltage U _o /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_o/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
(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