



- 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

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	1
Conductor cross-section	1.5 mm ²
Conductor diameter	1.5 mm
Diameter over insulation	2.16 mm
Diameter over inner sheath	6.8 mm
Diameter over intermediate sheath	10 mm
Diameter over armour	11.8 mm
Minimum outer diameter	17.3 mm
Maximum outer diameter	19.0 mm
Approximate weight	529 kg/km

Electrical characteristics

Rated Voltage U ₀ /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 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
(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