



Reference: 10098183
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CONTACT

Market information
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- Instrumentation cables 300 V
- Overall screen (OS)
- **Low smoke, low halogen (LSLH)**
- **Oil resistant**

STANDARDS

Product IEC 60228

Test IEC 60332-3-22 Cat.A; IEC 60754; IEC 61034

APPLICATIONS

These cables are intended for transmission of analogue and digital signals. They allow transmission over long distances at high pulse rates. These cables are used in industrial installations (refineries, chemical plants, etc...) where there is a potential risk of mechanical damage.

Design

Conductor:

Stranded bare copper (class 2)

Insulation:

Polyethylene (PE)

Overall screen:

Tinned copper drain wire

Aluminium/polyester tape

Inner sheath:

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

Outer sheath:

Polyvinyl chloride (PVC)

Special low smoke, low halogen (LSLH)

Colour: black or blue

Fire retardant: IEC 60332-3-22(A), limiting oxygen index > 30 as par ASTM D 2863

Low smoke: IEC 61034-2, transmittance > 40 %

Low halogen: IEC 60754-1 HCL < 6 %

Core identification
 Fire retardant
 EN IEC 60332-3-22
 Oil resistance
 ASTM D 1047
 Pair A Black/white

Triple: Black/white/red

For multipair White core printed with pair number



Conductor flexibility
Stranded class 2



Mechanical resistance
 to impacts
Good



Operating temp.
-20 ... 60 °C



Max. conductor temp. in
 service
70 °C

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Stranded class 2
Insulation	PE
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Inner sheath	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Sheath colour	Black

Dimensional characteristics

Number of pairs	16
Conductor cross-section	0.75 mm ²
Diameter over inner sheath	18.5 mm
Diameter over armour	21.0 mm
Minimum outer diameter	23.5 mm
Maximum outer diameter	25.9 mm
Approximate weight	1045 kg/km
Number of triples	-

Electrical characteristics

Operating voltage	300 V
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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)
Oil resistance	ASTM D 1047
Smoke density	Low
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	EN



Conductor flexibility
Stranded class 2



Mechanical resistance to impacts
Good



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



Oil resistance
ASTM D 1047



Smoke density
Low



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C

ELECTRICAL CHARACTERISTICS AT 20°C

Electrical data AT 20°C

Cables (mm ²)	Conductor Resistance max. (Ohm / km)	Insulation Resistance min. (Mohm.km)	Mutual Capacitance at 800 Hz maximum (nF / km)			L/R ratio max (µH / ohm)	Test Voltage (core/core) (V)
			Single pair	Up to 4 pairs	Above 4 pairs		
0.5	36.7	5 000	115	95	80	25	2 000
0.75	24.9	5 000	115	95	80	25	2 000
1.34	14.2	5 000	115	95	80	40	2 000

CORE IDENTIFICATION FOR 2 PAIR CABLES

2 pairs: black P1 - black P2
 white P1 -white P2



SELLING AND DELIVERY INFORMATION

Minimum bending radius:

- 10 x outer diameter
- To be doubled during laying operations

2 pair cables are assembled as a quad (black and white cores both printed with pair number)



Conductor flexibility
 Stranded class 2



Mechanical resistance to impacts
 Good



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



Oil resistance
 ASTM D 1047



Smoke density
 Low



Operating temp.
 -20 ... 60 °C



Max.conductor temp.in service
 70 °C