



Reference: 10098151  
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**CONTACT**

Market information  
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- Instrumentation cables 300 V
- Individual & Overall Screen (IOS)
- 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. The individual screening of each pair limits the consequences of crosstalk. These cables are used in industrial installations such as refineries, chemical plants etc...

**Design**

Conductor:

Stranded bare copper (class 2)

Insulation:

Polyethylene (PE)

Individual screen:

Tinned copper drain wire  
 Aluminium/polyester tape

Overall screen:

Tinned copper drain wire  
 Aluminium/polyester tape

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**

Pair: Black/white  
 For multipair: White core printed with pair number



Conductor flexibility  
 2



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



**Marking**

GORSE:  $YYYY$  RE - 2Y(St)Y - fl PiMF LSLH 300V Nber. of pairs & cross-section IEC 60332 - 3 - 22(A) + metric marking



Oil resistance



Operating temp.  $^{\circ}C$



Max. conductor temp.  $^{\circ}C$

**Désignation**

RE: Instrumentation cable  
 2Y: Polyethylene insulation

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PiMF: Pair screen  
 LSLH: Low emission of smoke and halogens

## CHARACTERISTICS

Conductor flexibility	2
Individual screen	Tinned copper drain wire + aluminium/polyester tape
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Sheath colour	
	0.5 mm <sup>2</sup>
Number of pairs	20
Minimum outer diameter	19.8 mm
Maximum outer diameter	21.8 mm
( )	565 kg/km
Operating voltage	300 V
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)
Oil resistance	ASTM D 1047
	Low
操作度范	- 20 ... 60 ° C
Max. conductor temperature in service	70 ° C
Standard	EN

## ELECTRICAL CHARACTERISTICS

### Electrical data AT 20°C

Cables (mm <sup>2</sup> )	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)
0.5	36.7	5 000	115	25	2 000
0.75	24.9	5 000	115	25	2 000
1.34	14.2	5 000	115	40	2 000



Conductor flexibility  
2



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



Oil resistance  
ASTM D 1047



Low



Operating temp.  
- 20 ... 60 ° C



Max. conductor temp. in service  
70 ° C

### SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations



Conductor flexibility  
2



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



Oil resistance  
ASTM D 1047



Low



Operating temp.  
- 20 ... 60 ° C



Max. conductor temp. in service  
70 ° C