



CONTACT

Market information
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- Instrumentation cables 170/300 V
- With lead cover (LC)
- Individual & Overall Screen (IOS)
- Aliphatic and aromatic hydrocarbons resistant

STANDARDS

Test IEC 60331; 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. They are well adapted to underground use in industrial applications, in moist areas, where hydrocarbon and mechanical protection are needed. The lead cover brings an enhanced resistance to aromatics hydrocarbons. The individual screening of each pair limits the consequence of crosstalk. They maintain circuit integrity when exposed to fire.

Design

Conductor:

Stranded bare copper class 2

Insulation:

Silicone rubber (Sil)

Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Inner sheath:

Low Smoke Zero Halogen (LSZH)

Colour: black

Lead sheath:

Bedding (intermediate sheath):

Polyvinyl chloride (PVC)

Colour: black

Armour:

Galvanized steel wires (SWA)

Fire resistant
IEC 60331

Fire retardant
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

Polyvinyl chloride (PVC)

Colour: black

Outer sheath:

Polyvinyl chloride (PVC)

Pair: white - black



Uo/U
(Um)
170/300V



Mechanical resistance to impacts
Good



Fire resistant
IEC 60331



Fire retardant
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

	2	()
Individual screen	Tinned copper drain wire + aluminium/polyester tape	
Overall screen	Tinned copper drain wire + aluminium/polyester tape	
	Low smoke, zero halogen thermoplastic compound	
Lead Sheath	Yes	
Intermediate sheath	PVC	
Armour type		
Protection	Yes	
Uo/U (Um)	170/300V	
Mechanical resistance to impacts	Good	
Fire resistant	IEC 60331	
Fire retardant	EN IEC 60332 - 3 - 22 (cat A)	
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant	
Electro magnetic interference resistance	Yes	
操作度范	- 20 ... 60 ° C	
Max. conductor temperature in service	90 ° C	
Standard	EN	

SECTION 0.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10135231	2	0.9	2.06	10.1	12.1	14.1	15.9	17.4	20.2	895
	5	0.9	2.06	13.2	15.2	17.2	19.7	21.1	24.5	1320
	10	0.9	2.06	17.5	19.7	21.7	24.2	24.8	29.0	1861
10135236	20	0.9	2.06	23.2	25.8	28.2	30.7	31.1	36.2	2810
	30	0.9	2.06	28.2	31	33.4	36.6	36.5	42.6	3916



Uo/U
170/300V



Mechanical resistance to impacts
Good



Fire resistant
IEC 60331



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

SECTION 0.75MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10135238	2	1.1	2.26	10.8	12.8	14.8	16.6	18.0	21.0	956
	5	1.1	2.26	14.2	16.4	18.4	20.9	22.2	25.8	1481
	10	1.1	2.26	18.9	21.3	23.3	25.8	26.3	30.7	2130
10135243	20	1.1	2.26	24.8	27.4	29.8	33.0	33.1	38.6	3256
	30	1.1	2.26	30.6	33.6	36	39.2	39.1	45.6	4417

SECTION 1.0MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10135245	2	1.28	2.44	11.3	13.3	15.3	17.1	18.5	21.5	1001
	5	1.28	2.44	15.1	17.3	19.3	21.8	23.0	26.8	1595
	10	1.28	2.44	20.2	22.6	24.6	27.1	27.6	32.2	2290
10135250	20	1.28	2.44	26.6	29.4	31.8	35.0	35.1	41.0	3689
	30	1.28	2.44	32.6	35.6	38.4	41.6	41.2	48.1	4870

SECTION 1.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
10135252	2	1.5	2.66	12.2	14.2	16.2	18.0	19.5	22.7	1102
	5	1.5	2.66	16.2	18.4	20.4	22.9	24.2	28.1	1749
	10	1.5	2.66	21.8	24.4	26.4	28.9	29.3	34.1	2643
10135257	20	1.5	2.66	29.3	32.3	34.7	37.9	37.9	44.2	4373
	30	1.5	2.66	35.1	38.3	41.1	45.1	44.6	52.0	6033

SECTION 2.5MM²

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
	2	1.91	3.07	13.7	15.9	17.9	20.4	21.7	25.3	1443



Uo/U
(Um)
170/300V



Mechanical
resistance to
impacts
Good



Fire resistant
IEC 60331



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

Reference	nb pairs	[mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diameter over lead sheath [mm]	Diam. intermediate sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	([kg/km])
	5	1.91	3.07	18.3	20.7	22.7	25.2	26.3	30.6	2092
	10	1.91	3.07	24.6	27.2	29.6	32.8	32.9	38.4	3336
	20	1.91	3.07	33.1	36.3	39.1	42.3	42.0	49.0	5335
	30	1.91	3.07	40.3	43.9	46.7	50.7	50.0	58.3	7579

SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332 - 1 or IEC 60332 - 3 - 24(C) on request.

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations

Tinned copper conductors available on request



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(Um)
170/300V



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