

ALBORZ CABLE CO.

Data Sheet
Instrumentation Cable

Rev : 0

1 x 2 x 1.5 RM + 1 x 0.5 mm2

Customer/Project : پالایشگاه میعانات گازی آدیش جنوبی

RE-2X(st)YRY

Project No./Title : TGS - Instrument

TYPE: CU/XLPE/OSCR/Bd-
FRPVC/SWA/FRPVC

NO	Description		Unit	Particulars	
1	Basic standard			-----	EN 50288-7
2	Rated Voltage		kV	-----	0.5
3	No. of Pair			-----	1
4	Conductor	Material	-----		Annealed Copper
		Size	mm ²	Nominal	1.50
		NoxDia of Wire	-----	Nominal	7 x 0.52
		Diameter	mm	-----	1.56
		Class	-----		2 (Stranded)
		Shape	-----		Round
5	Insulation	Material	-----	-----	XLPE
		Thickness	mm	Nominal	0.6
		Colour	-----		Black,White
5	Cabling	Material	-----	-----	---
					Yarn as a Filler
6	Diameter under Overall Shield		mm	Approx	5.52
7	Overall Screen	Tape	Material	-----	Mylar 36 μ Overlap: 25% to 30%
				-----	---
		Drain wire	Material	-----	Tinned Copper
			Cross section of drain wire	mm ²	Nominal
	Tape	Material	-----	-----	AL-Foil 23 μ Overlap: 25% to 30%
8	Core wrap	Material	-----	-----	Mylar 36 μ Overlap: 25% to 30%
9	Bedding	Material	-----	-----	FRPVC
		Thickness	mm	Nominal	0.9
10	Diameter under armour		mm	Approx	7.62
11	Armour	Material	-----	-----	Galvanized Steel wire armour
		Diameter of wire	mm	Nominal	0.90
12	Diameter over Armour		mm	Approx	9.42
13	Outer sheath	Material	-----	-----	FRPVC*
		Thickness	mm	Nominal	1.4
		Colour	-----	-----	Black
14	Overall dia of completed cable		mm	Approx	12.2
15	Weight of completed cable		kg / km	Approx	277
16	Standard Drum length		m	Approx	1000
17	Minimum bending radius installed temp		mm	Approx	147
18	Marking	ALBORZ CABLE CO. YEAR EN 50288-7 1 x 2 x 1.5 RM mm2 0.5kV RE-2X(st)YRY (FR) MADE IN IRAN METER			
Electrical Properties					
19	DC Conductor Resistant at 20 °C		Ω / km	Max	12.3
20	Maximum allowable pulling tension		kN	Max	1.3
21	L / R		μH / Ω	Max	40
22	Mutual capacitance		pF / m	Max	150
23	Capacitance Unbalance		pF/500m	Max	500
24	Short circuit current for Armour at 1 sec		kA	Max	0.76
25	Minimum installation temperature		°C	Min	-5
26	Opetation temperature		°C	-----	-30 to 90

*Technical Particulars

Flame Retardant : IEC 60332-1-2

Fire Retardant : IEC 60332-3-24 Cat. C (Min. LOI 32%)

Limiting Oxygen Index : ASTM 2863 (Min. 32%)

UV Resistant : UL 1581 Section 1200

Cable Diameter Tolerance = ±1mm

Email : sales@alborzcable.ir

Tel : 88787111-6 Fax : 88787118

- 1- Each conductor No. shall be marked on the insulation as per the MFG STD.
- 2- The FRT and FRS test reports shall be provided.
- 3- The tensile and elongation test reports shall be provided.

FRLH; or it can be accepted as a deviation.

Based on Client's request, shall be LZSH and Blue.

ALBORZ CABLE CO.

Data Sheet
Low Voltage Cable

Rev : 0

3 x 2.5 RM

mm2

Customer/Project : پالایشگاه میعانات گازی آدیش جنوبی

NYRY-J

Project No./Title : TGS - Instrument

TYPE:

CU/PVC/Bd-FRPVC/SWA/FRPVC

NO	Description		Unit	Particulars	
1	Basic standard			-----	IEC 60502-1
2	Rated Voltage U0/U(Um)		kV	-----	0.6/1(1.2)
3	No. of Core			-----	3
4	Conductor	Material	mm2	-----	Annealed Copper
		Size		Phase	2.5
				Null	2.5
		NoxDia of Wire	Earth	2.5	
		Diameter	Nominal	7 x 0.67	
		Class		2.01	
5	Insulation	Material	mm	-----	PVC
		Thickness		Nominal	0.8
6	Cabling	Colour		-----	Brown,Blue,Green/Yellow

7	Core wrap	Material		-----	Yarn as a Filler
8	Inner sheath	Material		-----	Mylar
		Thickness		-----	FRPVC
9	Diameter under armour	mm	Approx		9.88
10	Armour	Material		-----	Galvanized Steel wire armour
		Diameter of wire	mm	Nominal	0.9
11	Diameter over Armour	mm	Approx		11.68
12	Outer sheath	Material		-----	FRPVC*
		Thickness	mm	Nominal	1.8
		Colour		-----	Black
13	Overall dia of completed cable	mm	Approx		15.3
14	Weight of completed cable	kg / km	Approx		441
15	Standard Drum length	m	Approx		1000
16	Minimum bending radius after installation	mm	Approx		184
17	Marking	ALBORZ CABLE CO. YEAR IEC 60502-1 3 x 2.5 RM mm2 0.6/1 kV NYRY-J (FR) MADE IN IRAN METER			
Electrical / Mechanical Properties					
18	DC Conductor Resistant at 20 °C		Ω / km	Max	7.41
19	Maximum allowable pulling tension		kN	Max	2.1
20	Inductance		mH / Km	Max	0.37
21	AC Resistant		Ω / km	Max	9.04
22	AC Reactance		Ω / km	Max	0.12
23	Capacitance		μF / km	Max	0.38
24	Short circuit current for conductor at 1 sec		kA	-----	0.3
25	Short circuit current for Armour at 1 sec		kA	-----	1.0
26	Minimum installation temperature		°C	Min	-5
27	Operation temperature		°C	-----	-30 to 70
28	Current Carrying Capacity		A	In the Ground 20 °C	24
	According to IEC 60364-5-52		A	Free Air 30 °C	25

The overlap percentage shall be specified.

*Tec

Flame Retardant : IEC 60332-1-2
 Fire Retardant : IEC 60332-3-24 Cat. C (Min. LOI 32%)
 Limiting Oxygen Index : ASTM 2863 (Min. 32%)
 UV Resistant : UL 1581 Section 1200
 Cable Diameter Tolerance = ±1mm
 E-mail : sales@alborzcable.ir
 Tel: 88787111-6 , Fax : 88787118

- 1- Each conductor No. shall be marked on the insulation as per the MFG STD.
- 2- The FRT and FRS test reports shall be provided.
- 3- The tensile and elongation test reports shall be provided.
- 4- The cables shall be LZSH type.

- All cables shall be in compliance with "SPECIFICATION FOR INSTRUMENT CABLE" (SACR-DE-GEN-IN-SPC-0013-03) (the attached file). All requirements mentioned in the spec like tests, inspections, shipping, etc. shall be considered.
 - Electrical Parameters like Conductor AC and DC resistance, capacitance, L/R ratio, etc. shall be specified for all items.