

The vendor can submit a deviation list and clarify the discrepancies.

ALBORZ CABLE CO.
Data Sheet
Instrumentation Cable



Rev : 01 1 x 2 x 1.5 RM mm2

Customer/Project : پالایشگاه میعانات گازی آدیش جنوبی

Project No./Title : TGS - Instrument

TYPE: RE-2XCHRH-PiCB
Ticu/XLPE/ISCR/OTCWB/Bd-
HFFR/SWA/HFFR

NO	Description		Unit	Particulars		
1	Basic standard		-----	-----	EN 50288-7	
2	Rated Voltage		kV	-----	0.5	
3	No. of Pair		-----	-----	1	
4	Conductor	Material Size NoxDia of Wire Diameter Class Shape	mm2 ----- mm ----- ----- -----	Nominal ----- Nominal ----- ----- -----	Tinned copper 1.50 7 x 0.52 1.56 2 (Stranded) Round	
5	Insulation	Material Thickness Colour	mm ----- -----	Nominal ----- -----	XLPE 0.6 Black,White	
6	Diameter under Shield		mm	Approx	5.5	
7	Individual Screen	Tape	Material -----	-----	Mylar 36 μ Overlap: 25% to 30% ---	
		Drain wire	Material Cross section of drain wire	mm2 -----	Nominal -----	Tinned Copper 0.5
		Tape	Material ---	----- -----	-----	AL-Foil 23 μ Overlap: 25% to 30% ---
8	Core wrap	Material -----	-----	-----	Mylar 36 μ Overlap: 25% to 30% ---	
8	Cabling	Material -----	-----	-----	Yarn as a Filler	
9	Diameter under Overall Shield		mm	Approx	5.82	
10	Overall Screen	Tape	Material -----	-----	Mylar 23 μ Overlap: 25% to 30% ---	
		Drain wire	----- ---	----- -----	----- ---	
		Braid	Material Dia.of wire	mm -----	Nominal -----	Tinned copper wire braid 0.2
11	Bedding	Material Thickness	mm -----	Nominal -----	HFFR 1	
12	Diameter under armour		mm	Approx	8.72	
13	Armour	Material Diameter of wire	mm -----	Nominal -----	Galvanized Steel wire armour 0.90	
14	Diameter over Armour		mm	Approx	10.52	
15	Outer sheath	Material Thickness Colour	mm ----- -----	Nominal ----- -----	HFFR* 1.4 Blue	
16	Overall dia of completed cable		mm	Approx	13.3	
17	Weight of completed cable		kg / km	Approx	348	
18	Standard Drum length		m	Approx	1000	
19	Minimum bending radius installed temp		mm	Approx	160	
20	Marking	ALBORZ CABLE CO. YEAR EN 50288-7 1 x 2 x 1.5 RM mm2 0.5kV RE-2XCHRH-PiCB (HFFR) MADE IN IRAN METER				
Electrical Properties						
21	DC Conductor Resistant at 20 °C		Ω / km	Max	12.3	
22	Maximum allowable pulling tension		kN	Max	1.6	
23	L / R		μH / Ω	Max	40	
24	Mutual capacitance		pF / m	Max	150	
25	Capacitance Unbalance		pF/500m	Max	500	
26	Short circuit current for Armour at 1 sec		kA	Max	0.92	
27	Minimum installation temperature		°C	Min	-5	
28	Opetation temperature		°C	-----	-30 to 90	

Twisted Pair

Based on Client's request, shall be PVC.

Based on Client's request, shall be LZSH/LSFOH.

*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%)
Smoke Density : IEC 61034-1,2 (Min. Light Transmittance 60%)
Halogen Acid Gas : IEC 60754-1,2 (Max. HCL 0.5%)
UV Resistant : UL 1581 Section 1200
Cable Diameter Tolerance = ±1mm
Email : sales@alborzcable.ir
Tel : 88787111-6 Fax : 88787118

- 1- The FRT and FRS test reports shall be provided after PO.
- 2- The tensile and elongation test reports shall be provided after PO.

ALBORZ CABLE CO.

Data Sheet
Low Voltage Cable

Rev : 01

3 x 2.5 RM

mm2

Customer/Project : پالایشگاه میعانات گازی آدیش جنوبی

N2XRH

Project No./Title : TGS - Instrument

TYPE:

CU/XLPE/Bd-HFFR/SWA/HFFR

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	
		NoxDia of Wire		Null	0	
			Diameter	Earth	0	
			Class	Nominal	7 x 0.67	
		Shape		mm	-----	2.01
5	Insulation	Material		-----	2 (Stranded)	
		Thickness	mm	Nominal	-----	Round
		Colour		-----	XLPE	
6	Cabling	Material		-----	0.7	
7	Core wrap	Material		-----	Black(numbered)	
8	Inner sheath	Material	-----		---	
9	Diameter under armour	Thickness	mm	Nominal	Yarn as a Filler	
					Colour	
10	Armour	Material	-----		HFFR	
11	Outer sheath	Material	-----		HFFR*	
		Thickness	mm	Nominal	-----	1.8
		Colour		-----		Black
12	Overall dia of completed cable		mm	Approx	14.9	
13	Weight of completed cable		kg / km	-----	408	
14	Standard Drum length		m	Approx	1000	
15	Minimum bending radius after installation		mm	Approx	179	
16						
17	Marking	ALBORZ CABLE CO. YEAR IEC 60502-1 3 x 2.5 RM mm2 0.6/1 kV N2XRH (HFFR) 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	2.0	
20	Inductance		mH / Km	Max	0.35	
21	AC Resistant		Ω / km	Max	9.64	
22	AC Reactance		Ω / km	Max	0.11	
23	Capacitance		µF / km	Max	0.24	
24	Short circuit current for conductor at 1 sec		kA	-----	0.4	
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 90	
28	Current Carrying Capacity According to IEC 60364-5-52		A	In the Ground 20 °C	30	
			A	Free Air 30 °C	32	

*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%)

Smoke Density : IEC 61034-1,2 (Min. Light Transmittance 60%)

Halogen Acid Gas : IEC 60754-1,2 (Max. HCL 0.5%)

UV Resistant : UL 1581 Section 1200

Cable Diameter Tolerance = ±1mm

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- 1- The FRT and FRS test reports shall be provided.
- 2- The tensile and elongation test reports shall be provided.
- 3- The cables shall be LZSH type.