






OWNER: 	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	<b>Instrument Cable List &amp; Schedule for reciprocating compressor</b>								
MC :  شرکت سفت و سوی توسعه ایرانیان	<b>Project</b>	<b>Area</b>	<b>Phase</b>	<b>Unit</b>	<b>Dis.</b>	<b>Doc.</b>	<b>Seq.</b>	<b>Contract No : 52-98/445</b>	
<b>Owner Document Number: 17811-53</b>	<b>BU</b>	<b>20</b>	<b>VD</b>	<b>303</b>	<b>IN</b>	<b>LST</b>	<b>0038</b>	<b>Rev.:</b>	<b>Page</b>
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Cables numbering procedure, cable type, gland size, number of pair/core and sheath color shall be as per attached file.  
Numbering of single pair cables is the same as instrument tag numbers.

This document is checked only for compressor 7080. New document should be generated for compressor 1002.

## Instrument Cable List & Schedule for reciprocating compressor

		<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>
<b>Document Review</b>		
Issue Purpose:	FA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May.05.2021	
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>		

00	16/12/2020	<b>For approval</b>	<b>WZ</b>	<b>KP</b>	<b>PW</b>	
<b>Rev.</b>	<b>Date</b>	<b>Purpose of Issue</b>	<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>	<b>AC Code</b>
						Class: 1 Phase: p

OWNER  شرکت پتروشیمی بوتهر	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR: 		
	<b>Instrument Cable List &amp; Schedule for reciprocating compressor</b>								
MC :   شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-53	BU	20	VD	303	IN	LST	0038	Rev.:	Page
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cable specification to be added for each cable.  
 ARM./ UNAR  
 SHEATH /color  
 PROTECTION (S/NIS)  
 CABLE LAYERS  
 ...

cable length to be added for each item except customer scope of supply.

...	BOARD / INSTRUMENT	GLAND SIZE	CABLE NAME	TO BOARD	TERM. STRIP	TERMINAL	GLAND SIZE	LOCATION	CABLE mm2	FUNCTION	SCOPE
1	COMPRESSOR A UCP_A										
2	CUSTOMER		N/A PS_00	UCP_A	X0	1-3	N/A	FIELD	3Cx2,5	UPS-1 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH	CUSTOMER
3	CUSTOMER		N/A PS_01	UCP_A	X0	4-6	N/A	FIELD	3Cx2,5	UPS-2 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH	CUSTOMER
4	CUSTOMER		N/A PS_02	UCP_A	X0	7-9	N/A	FIELD	3Cx2,5	UPS-3 POWER SUPPLY FROM CUSTOMER 230VAC/50HZ/1PH	CUSTOMER
5	FIELD	LCP_A	M20 ESD_LCP_A	UCP_A	X9	1-2	M20	FIELD	4Cx1	COMPRESSOR A EMERGENCY SHUTDOWN	AIRPACK
6	CUSTOMER		M20 ESD_COM	UCP_A	X9	3-7	M20	FIELD	4Cx1	EMERGENCY SHUTDOWN FROM CUSTOMER	AIRPACK
7	FIELD	JB_DIG_A	M20 SOL_COMA	UCP_A	X1	1-10	M20	FIELD	5Px2,5	SOLENOIDS CONNECTION	AIRPACK
8	CUSTOMER		M20 SERA00	UCP_A	X4	1-3	M20	FIELD	N/A	SERIAL COMMUNICATION TO CUSTOMER RS-485	AIRPACK
9	CUSTOMER		M20 SERA01	UCP_A	X4	4-6	M20	FIELD	N/A	SERIAL COMMUNICATION TO CUSTOMER RS-485	AIRPACK
10	FIELD		M20 LCP_COMA	UCP_A	X5	1-26	M20	FIELD	26Cx1	DIGITAL INPUTS CONNECTION	AIRPACK
11	FIELD	JB_ANLG_A	M20 TR_COMA	UCP_A	X2	1-20	M20	FIELD	10Px0,75	ANALOG INPUTS CONNECTION	AIRPACK
12	FIELD	JB_DIG_A	M20 PCV_COMA	UCP_A	X2.1	1-2	M20	FIELD	1Px1,5	COMPRESSOR A BYPASS (RECYCLE) VALVE CONTROL VALVE PCV-001A	AIRPACK
13	FIELD	MCC	M20 MCC_COMA	UCP_A	X8	1-16	M20	FIELD	16Cx1	SIGNALS TO MCC	AIRPACK
14	FIELD	DCS	M20 SIG_DCS	UCP_A	X11	1-4	M20	FIELD	4Cx1	SIGNALS FROM DCS	AIRPACK
15	COMPRESSOR A JB_DIG_A										
16	FIELD	XY-001A	M20 XY-001A	JB_DIG_A	X1	1-2	M20	FIELD	1Px2,5	COMPRESSOR A INLET SOLENOID VALVE XY-001A	AIRPACK
17	FIELD	XY-002A	M20 XY-002A	JB_DIG_A	X1	3-4	M20	FIELD	1Px2,5	COMPRESSOR A COOLING WATER INLET SOLENOID VALVE XY-002A	AIRPACK
18	COMPRESSOR A JB_ANLG_A										
19	FIELD	PIT-001A	M20 PIT-001A	JB_ANLG_A	X2	1+,1-,15SCR	M20	FIELD	1Px1,5	COMPRESSOR A INLET PRESSURE PIT-001A	AIRPACK
20	FIELD	PIT-002A	M20 PIT-002A	JB_ANLG_A	X2	2+,2-,25SCR	M20	FIELD	1Px1,5	COMPRESSOR A OUTLET PPRESSION PIT-002A	AIRPACK
21	FIELD	PIT-003A	M20 PIT-003A	JB_ANLG_A	X2	3+,3-,35SCR	M20	FIELD	1Px1,5	COMPRESSOR A OIL SYSTEM PRESSURE PIT-003A	AIRPACK
22	FIELD	TIT-001A	M20 TIT-001A	JB_ANLG_A	X2	4+,4-,45SCR	M20	FIELD	1Px1,5	COMPRESSOR A INLET TEMPERATURE TIT-001A	AIRPACK
23	FIELD	TIT-002A	M20 TIT-002A	JB_ANLG_A	X2	5+,5-,55SCR	M20	FIELD	1Px1,5	COMPRESSOR A INLET TEMPERATURE TIT-002A	AIRPACK
24	FIELD	PCV-001A	M20 PCV-001A	JB_ANLG_A	X2.1	1+,1-,15SCR	M20	FIELD	1Px1,5	COMPRESSOR A BYPASS (RECYCLE) VALVE CONTROL VALVE PCV-001A	AIRPACK
25	COMPRESSOR A LCP_A										
26	FIELD	MCC	M20		X10	1-2	M20	FIELD	2Cx1	COMPRESSOR A AMPEREMETER SIGNAL FROM MCC	AIRPACK
27	COMPRESSOR B UCP_B										
28	CUSTOMER		N/A PS_00	UCP_B	X0	1-3	N/A	FIELD	3Cx2,5	UPS-1 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH	CUSTOMER
29	CUSTOMER		N/A PS_01	UCP_B	X0	4-6	N/A	FIELD	3Cx2,5	UPS-2 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH	CUSTOMER
30	CUSTOMER		N/A PS_02	UCP_B	X0	7-9	N/A	FIELD	3Cx2,5	UPS-3 POWER SUPPLY FROM CUSTOMER 230VAC/50HZ/1PH	CUSTOMER
31	FIELD	LCP_A	M20 ESD_LCP_B	UCP_B	X9	1-2	M20	FIELD	4Cx1	COMPRESSOR A EMERGENCY SHUTDOWN	AIRPACK
32	CUSTOMER		M20 ESD_COM	UCP_B	X9	3-7	M20	FIELD	4Cx1	EMERGENCY SHUTDOWN FROM CUSTOMER	AIRPACK
33	FIELD	JB_DIG_A	M20 SOL_COMB	UCP_B	X1	1-10	M20	FIELD	5Px2,5	SOLENOIDS CONNECTION	AIRPACK
34	CUSTOMER		M20 SERA00	UCP_B	X4	1-3	M20	FIELD	N/A	SERIAL COMMUNICATION TO CUSTOMER RS-485	AIRPACK
35	CUSTOMER		M20 SERA01	UCP_B	X4	4-6	M20	FIELD	N/A	SERIAL COMMUNICATION TO CUSTOMER RS-485	AIRPACK
36	FIELD	LCP_A	M20 LCP_COMB	UCP_B	X5	1-26	M20	FIELD	26Cx1	DIGITAL INPUTS CONNECTION	AIRPACK
37	FIELD	JB_ANLG_A	M20 TR_COMA	UCP_B	X2	1-20	M20	FIELD	10Px0,75	ANALOG INPUTS CONNECTION	AIRPACK
38	FIELD	JB_DIG_A	M20 PCV_COMA	UCP_B	X2.1	1-2	M20	FIELD	1Px1,5	COMPRESSOR A BYPASS (RECYCLE) VALVE CONTROL VALVE PCV-001B	AIRPACK
39	FIELD	MCC	M20 MCC_COMA	UCP_B	X8	1-16	M20	FIELD	16Cx1	SIGNALS TO MCC	AIRPACK
40	FIELD	DCS	M20 SIG_DCS	UCP_B	X11	1-4	M20	FIELD	4Cx1	SIGNALS FROM DCS	AIRPACK
41	COMPRESSOR B JB_DIG_B										
42	FIELD	XY-001B	M20 XY-001B	JB_DIG_B	X1	1-2	M20	FIELD	1Px2,5	COMPRESSOR A INLET SOLENOID VALVE XY-001B	AIRPACK
43	FIELD	XY-002B	M20 XY-002B	JB_DIG_B	X1	3-4	M20	FIELD	1Px2,5	COMPRESSOR A COOLING WATER INLET SOLENOID VALVE XY-002B	AIRPACK

FOR CABLE TAG PLEASE NOTE ATTACHED NUMBERING PROCEDURE.

Gland size to be selected as per attache file.

signals between MCC and LCP/PLC to be corrected as per project PID.

AO signal to be connected to analogue JB

SI	LOCATION	FROM BOARD / INSTRUMENT	GLAND SIZE	CABLE NAME	TO BOARD / INSTRUMENT	TERM . STRIP	TERMINAL	GLAND SIZE	LOCATION	CABLE mm2	FUNCTION	SCOPE
44	<b>COMPRESSOR B JB_ANLG_B</b>											
45	FIELD	PIT-001B	M20	PIT-001B	JB_ANLG_B	X2	1+,1-,1SCR	M20	FIELD	1Px1,5	COMPRESSOR B INLET PRESSURE PIT-001B	AIRPACK
46	FIELD	PIT-002B	M20	PIT-002B	JB_ANLG_B	X2	2+,2-,2SCR	M20	FIELD	1Px1,5	COMPRESSOR B OUTLET PPRESSIONE PIT-002B	AIRPACK
47	FIELD	PIT-003B	M20	PIT-003B	JB_ANLG_B	X2	3+,3-,3SCR	M20	FIELD	1Px1,5	COMPRESSOR B OIL SYSTEM PRESSURE PIT-003B	AIRPACK
48	FIELD	TIT-001B	M20	TIT-001B	JB_ANLG_B	X2	4+,4-,4SCR	M20	FIELD	1Px1,5	COMPRESSOR B INLET TEMPERATURE TIT-001B	AIRPACK
49	FIELD	TIT-002B	M20	TIT-002B	JB_ANLG_B	X2	5+,5-,5SCR	M20	FIELD	1Px1,5	COMPRESSOR B INLET TEMPERATURE TIT-002B	AIRPACK
50	FIELD	PCV-001B	M20	PCV-001B	JB_ANLG_B	X2,1	1+,1-,1SCR	M20	FIELD	1Px1,5	COMPRESSOR B BYPASS (RECYCLE) VALVE CONTROL VALVE PCV-001B	AIRPACK
51	<b>COMPRESSOR B LCP_B</b>											
52	FIELD	MCC	M20	AMP_METER_B	LCP_B	X10	1-2	M20	FIELD	2Cx1	COMPRESSOR A AMPEREMETER SIGNAL FROM MCC	AIRPACK