Contrans I - Instruction Manual for Freelance 2000

Contrans I,



I.S. isolation,
Electrical isolation,
Load increase,
Transmitter-
Power Supply

the signal matching.

Contrans I

the family with

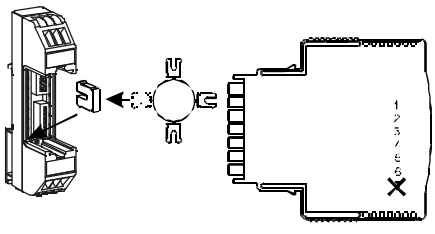
Contrans I,



the plugable function.

Click !

Plant security,



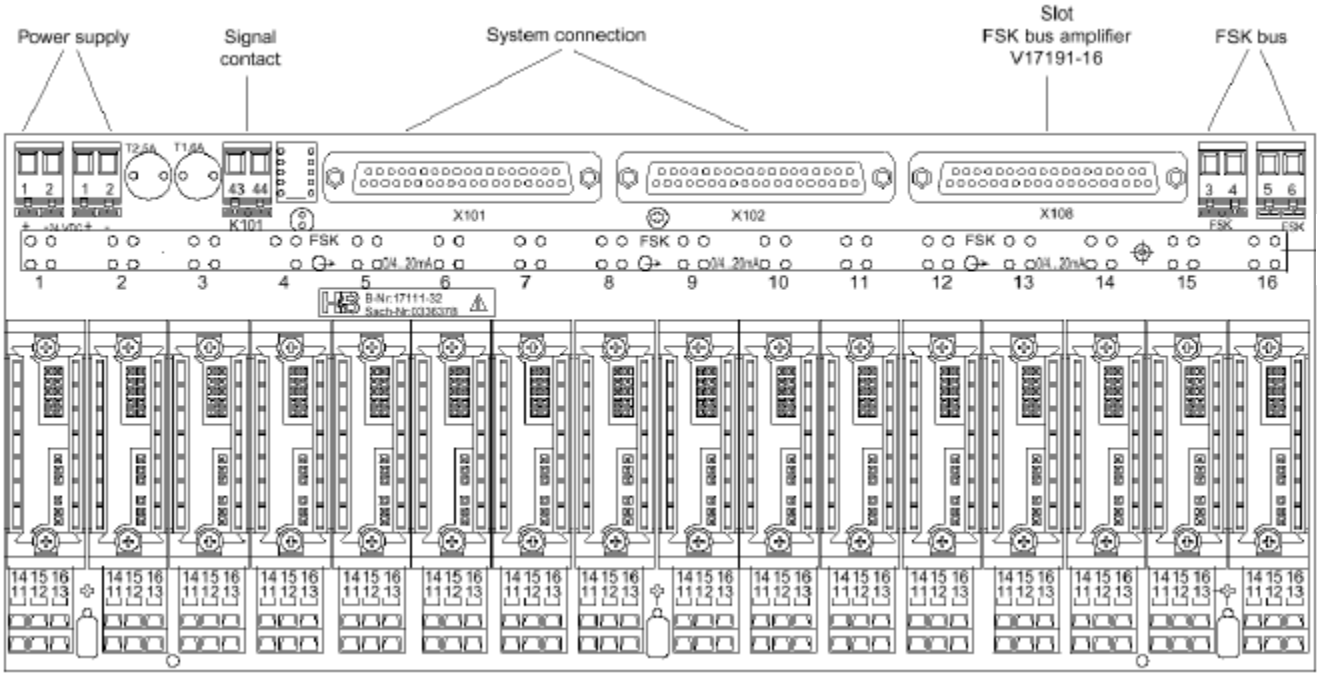
with function coding.

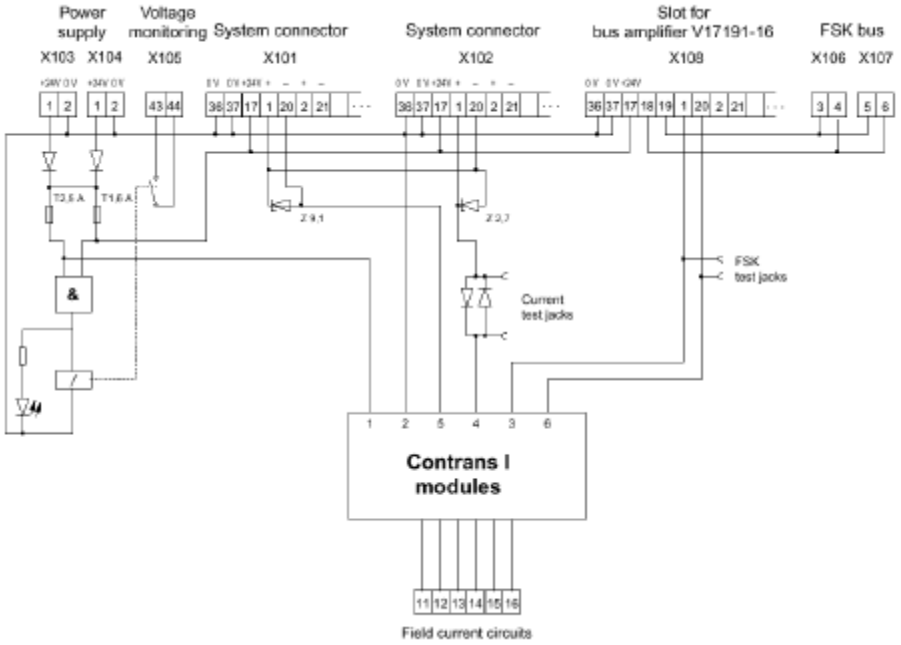
Signal matching

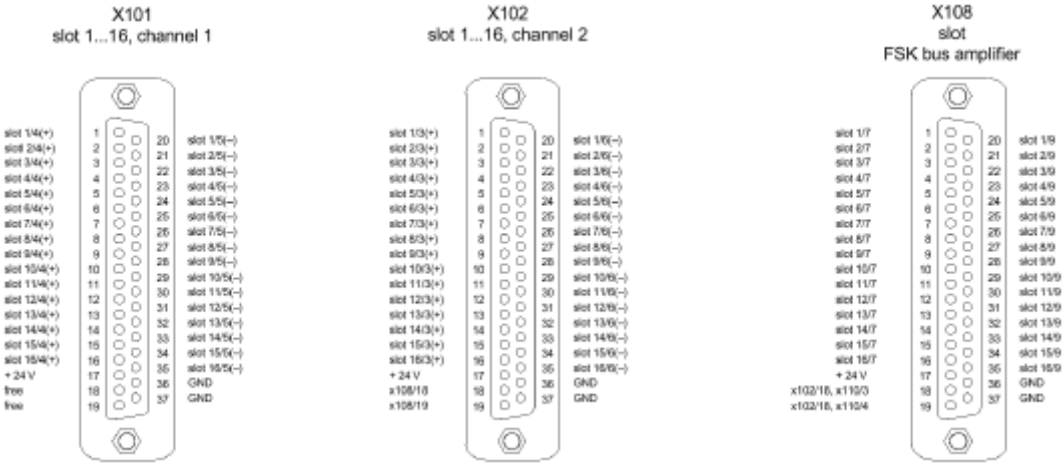
Freelance 2000

with methodic.

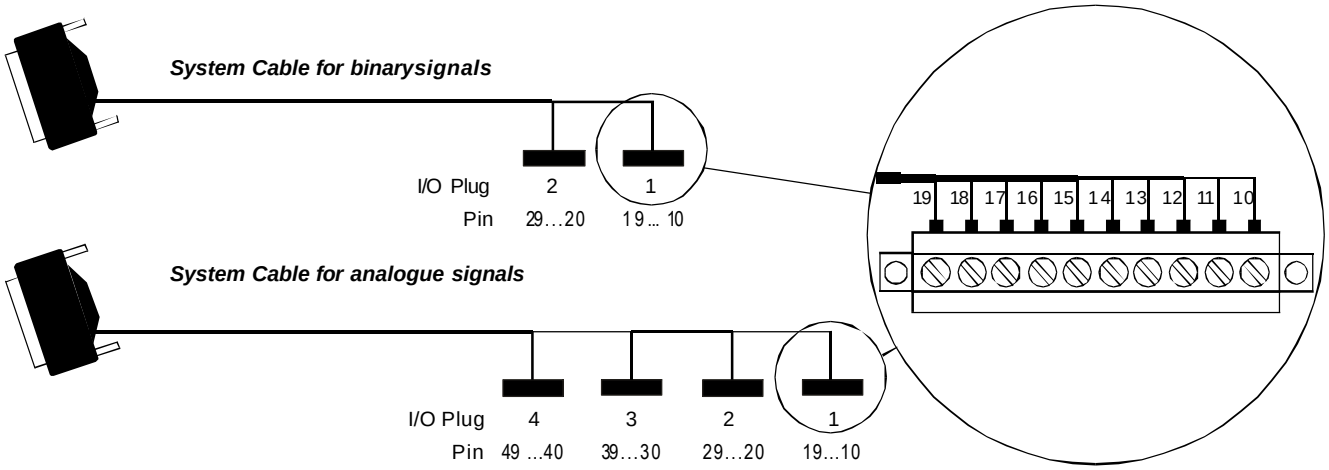
V17111-320


Power supply
Signal contact
System connection
Slot FSK bus amplifier V17191-16
FSK bus
X101
X102
X108
FSK

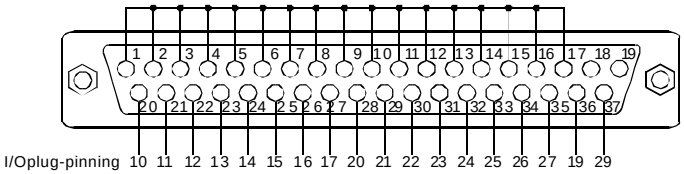

Power supply
Voltage monitoring
System connector
System connector
Slot for bus amplifier V17191-16
FSK bus
X103 X104 X105 X101 X102 X108 X106 X107
Current test jacks
FSK test jacks
Contrans I modules
Field current circuits


X101
slot 1...16, channel 1
X102
slot 1...16, channel 2
X108
slot
FSK bus amplifier

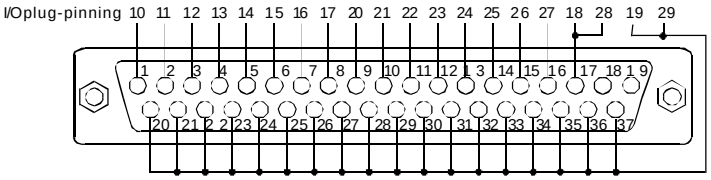
2.2 System Cables



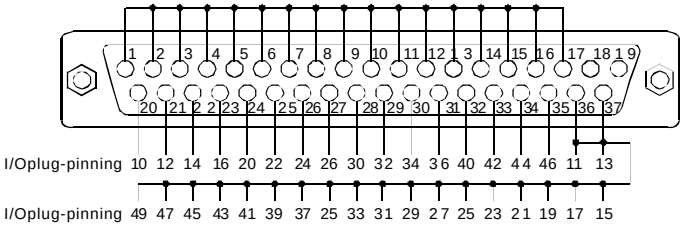
System Cable forbinarysignals
Part no.: 0336331
for Freelance I/O board : DDI 01



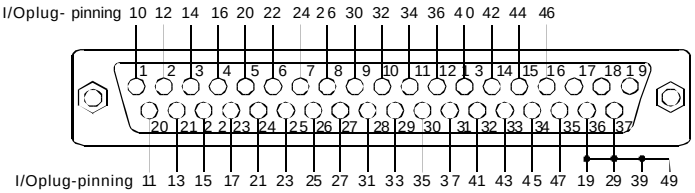
System Cable forbinarysignals
Part no.: 0336332
for Freelance I/O board : DDO 01



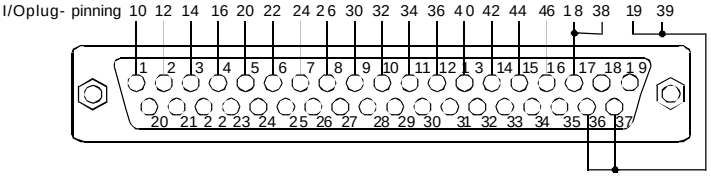
System Cable foranalogue inputsignals (1)
Part no.: 0336333
for Freelance I/O board : DAI 01



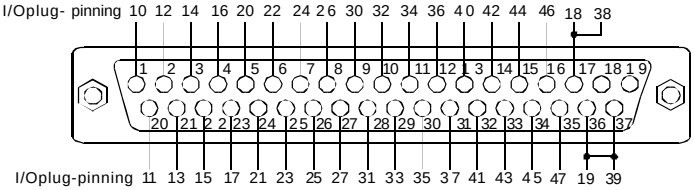
System Cable foranalogue inputsignals (2)
Part no.: 0336334
for Freelance I/O board : DAI 01



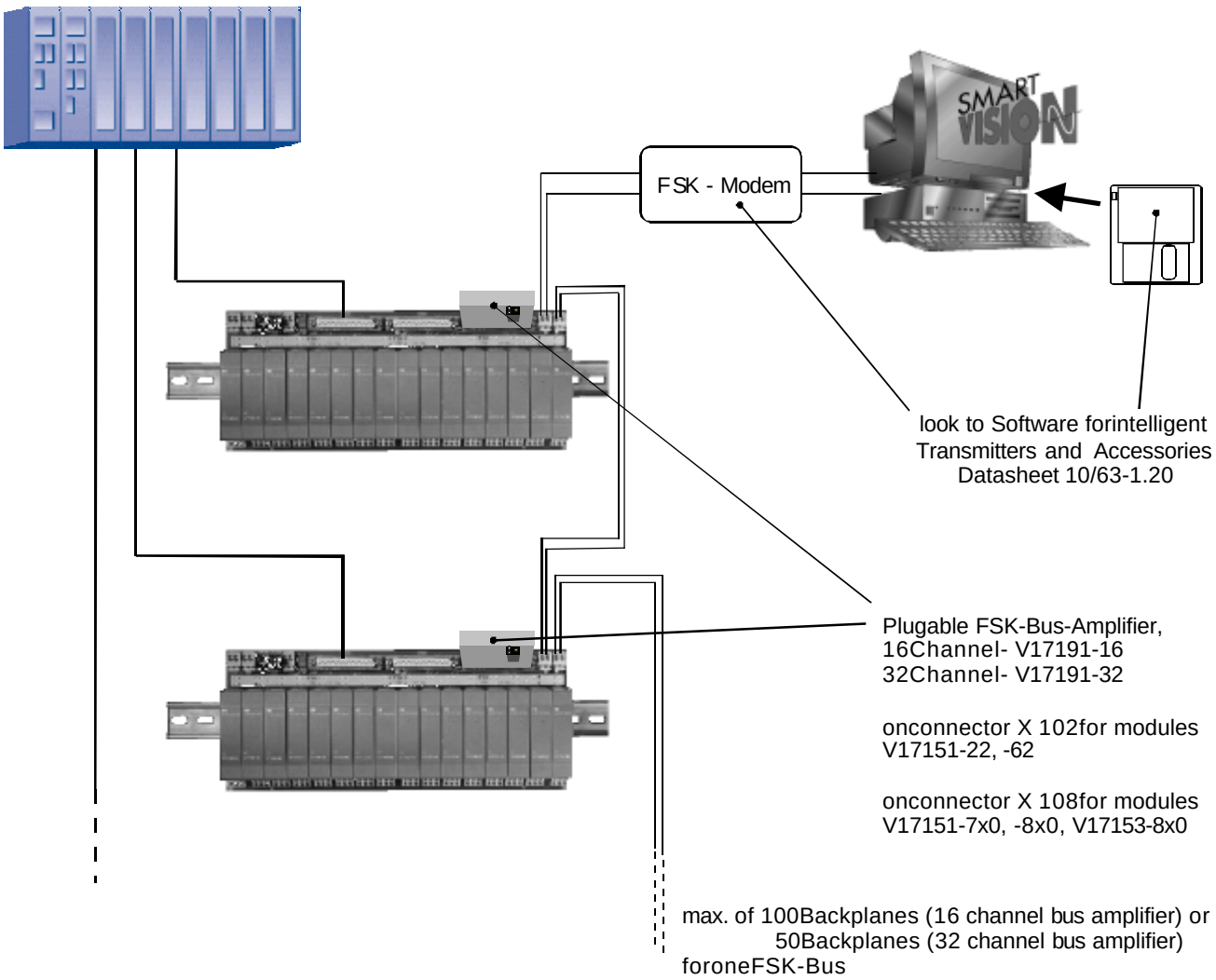
System Cable foranalogue output signals (1)
Part no.: 0336335
for Freelance I/O board : DAO 01



System Cable foranalogue output signals (2)
Part no.: 9700140
for Freelance I/O board : DAO 01



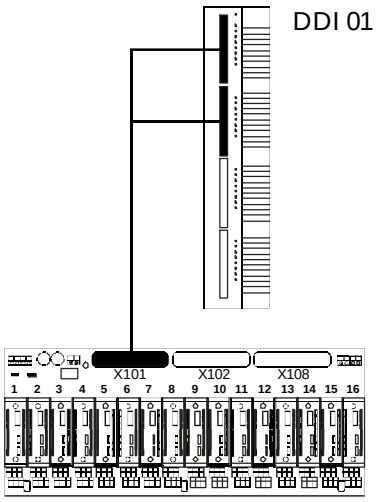
2.3 HART,FSK-Bus



Chapter 3 - Digital Input

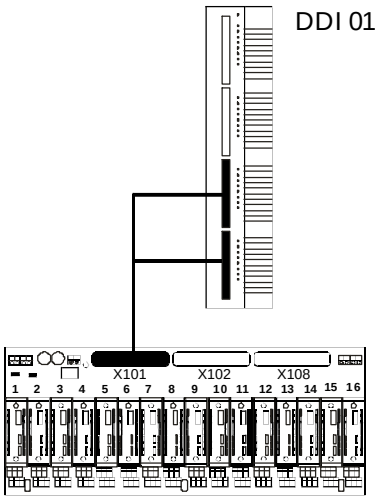
3.1 Digital Input, 16 Channels

3.1.1 Interconnection andChannelAssignmentfor Channel 0 ... 15



Contrans I Backplane	*Freelance DDI01*
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel10
Slot12	Channel 11
Slot13	Channel12
Slot14	Channel13
Slot15	Channel14
Slot16	Channel15

3.1.2 Interconnection andChannelAssignmentfor Channel 16...31



Contrans I Backplane	*Freelance DDI01*
Slot1	Channel16
Slot2	Channel17
Slot3	Channel 18
Slot4	Channel19
Slot5	Channel20
Slot6	Channel21
Slot7	Channel22
Slot8	Channel23
Slot9	Channel24
Slot10	Channel25
Slot11	Channel26
Slot12	Channel27
Slot13	Channel28
Slot14	Channel29
Slot15	Channel30
Slot16	Channel31

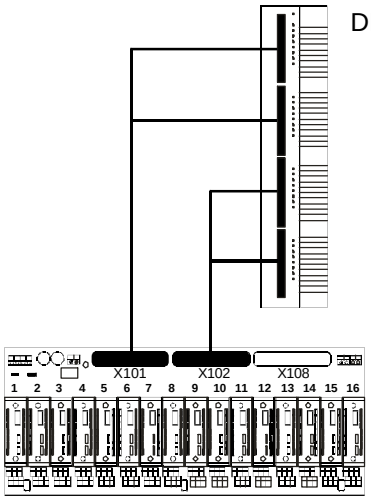
3.1.3 ContransIModules, Backplanes andSystem Cables

Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Field Contact Powering	Electrical Isolation Input / Output	Electrical Isolation Chanel to Channel	Intrinsically Safe	Failure monotoring (short circuit/wire break)	Failure signaling (short circuit/wire break)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17191-12	x			1 of 2	16	x						x	x			x					
V17131-13	x			1 of 2	16	x	x	x		x		x	x			x					
V17131-16	x			1 of 2	16	x	x	x		x		x	x			x					
V17131-51	x			1	16	x	x	x	x	x		x	x	x		x					
V17131-54	x			1	16	x	x	x	x	x		x	x	x		x					
V17133-11		x		1 of 2	16		x	x				x	x			x					

Chapter 3 - Digital Input

3.2 Digital Input, 16 Channels with failuresignaling

3.2.1 Interconnection andChannelAssignmentfor Channel 0 ... 31



Contrans I Backplane	***Freelance DDI01***
Signals :	
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel10
Slot12	Channel 11
Slot13	Channel12
Slot14	Channel13
Slot15	Channel14
Slot16	Channel15

Contrans I Backplane	
FailureSignals :	
Slot1	Channel16
Slot2	Channel17
Slot3	Channel 18
Slot4	Channel19
Slot5	Channel20
Slot6	Channel21
Slot7	Channel22
Slot8	Channel23
Slot9	Channel24
Slot10	Channel25
Slot11	Channel26
Slot12	Channel27
Slot13	Channel28
Slot14	Channel29
Slot15	Channel30
Slot16	Channel31

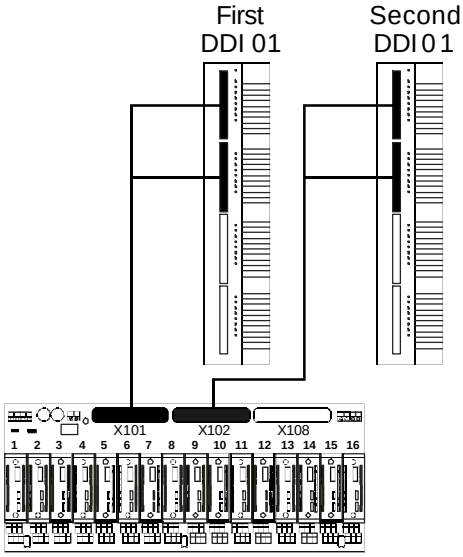
3.2.2 ContransIModules, Backplanes andSystem Cables

Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Field Contact Powering	Electrical Isolation Input / Output	Electrical Isolation Chanel to Channel	Intrinsically Safe	Failure monotoning (short circuit/wire break)	Failure signaling (short circuit/wire break)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17131-52	x			1	16	x	x	x	x	x	x	x	x	x		2x					
V17131-55	x			1	16	x	x	x	x	x	x	x	x	x		2x					

Chapter 3 - Digital Input

3.3 Digital Input, 16 Channels and Redundancy

3.3.1 Interconnection andChannelAssignmentfor Channel 0 ... 15andtheredundancyof Channel 0 ... 15



Contrans I Backplane	***Freelance FirstDDI 01***
Signals :	
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel 10
Slot12	Channel 11
Slot13	Channel 12
Slot14	Channel 13
Slot15	Channel 14
Slot16	Channel 15

Contrans I Backplane	***Freelance Second DDI 01***
RedundantSignals :	
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel 10
Slot12	Channel 11
Slot13	Channel 12
Slot14	Channel 13
Slot15	Channel 14
Slot16	Channel 15

3.3.2 ContransIModules, Backplanes andSystem Cables

Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Field Contact Powering	Electrical Isolation Input / Output	Electrical Isolation Channel to Channel	Intrinsically Safe	Failure monitoring (short circuit/wire break)	Failure signaling (short circuit/wire break)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17131-52	x		x	1	16	x	x	x	x	x		x	x	x		2x					
V17131-55	x		x	1	16	x	x	x	x	x		x	x	x		2x					