

## 1553 SCSI-3 Connector Pin-Outs & Cable Assemblies

for Interface Card Models:

**PCI-1553, PCIC-1553 PMC-1553, CPCIC-1553, PCIEC-1553, PCIE4L-1553**  
(Front Panel Only. -T Suffix = Thumb Screw Connector)

### Cable Assembly Part Numbers:

**SCSI-1553-4-01 or SCSI-1553-4-01-T** (four channel)

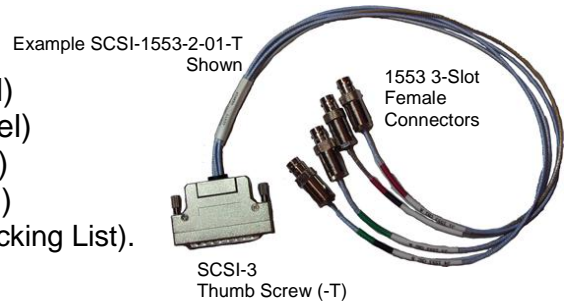
**SCSI-1553-3-01 or SCSI-1553-3-01-T** (three channel)

**SCSI-1553-2-01 or SCSI-1553-2-01-T** (two channel)

**SCSI-1553-1-01 or SCSI-1553-1-01-T** (one channel)

The above assemblies are standard shipment (-99 on Packing List).

These DO NOT have the AUX DB 50 Connector.



The following assemblies are optional item shipments.

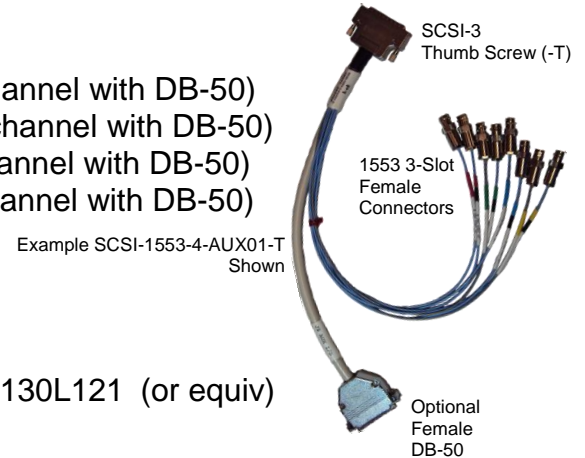
**These DO have the AUX DB 50 Connector.**

**SCSI-1553-4-AUX01 or SCSI-1553-4-AUX01-T** (four channel with DB-50)

**SCSI-1553-3-AUX01 or SCSI-1553-3-AUX01-T** (three channel with DB-50)

**SCSI-1553-2-AUX01 or SCSI-1553-2-AUX01-T** (two channel with DB-50)

**SCSI-1553-1-AUX01 or SCSI-1553-1-AUX01-T** (one channel with DB-50)



### SCSI-3 Front Panel Connector Information:

- SCSI CON: AMP #1-5750913-7 (or equiv)
- Clip Backshell: Amp #5749195-2 (or equiv)
- Thumb Screw (-T) Backshell: Norcomp 989-068-130L121 (or equiv)

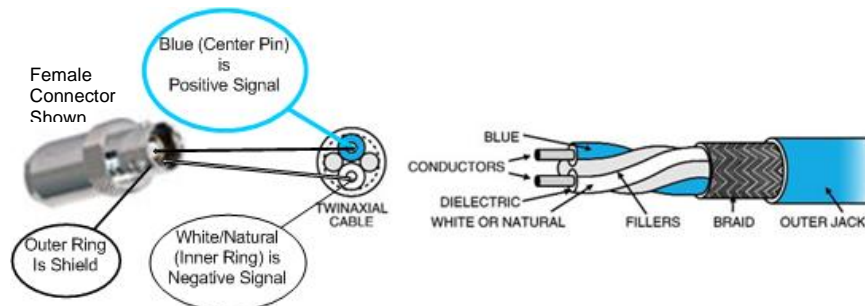
### Cable Assembly Markings & Information:

- **Shrink-wrap from SCSI to 1553/Aux Cable**
  - ~1" from SCSI Base label:
    - P1 - Part No: SCSI-1553-**X**-01 (**X**=Channel Count)
- **1553 M17 Cables with 3-Slot Female Connectors**
  - ~1" from base: 1553 color connector labels (CH = Channel):

- **J1 1553 CH 1A**
- **J2 1553 CH 1B**
- **\*J3 1553 CH 2A**
- **\*J4 1553 CH 2B**
- **\*J5 1553 CH 3A**
- **\*J6 1553 CH 3B**
- **\*J7 1553 CH 4A**
- **\*J8 1553 CH 4B**

\* Channel/Model Dependent

NOTE for Cable Assemblies After 1 Feb 2008: For Easy Channel Identification, Each Channel Set ("A"- "B" bus set) Has a Different Color Code Shrink Tube Near the 3-Slot Male Connectors (1553 Connectors – Channels are Color Marked Above) – The **Black Stripe** Indicates the "**B - Secondary**" Bus.



- **Optional Female DB50 AUX Connector Labeling –**
  - ~1" from base of connector label:
    - J9 AUX I/O

Table 1. SCSI-3 Connector Pin-Outs  
(\* = Channel/Model Dependent)

SCSI Pin#	Signal	SCSI Pin#	Signal
1*	1553 SHIELD	35	GND – Connected to SCSI Hood
2*	1553 CH 4B-	36	TRIG_OUT4
3*	1553 CH 4B+	37	TRIG_IN4
4	GND	38	SDISC6 / RTADDR1_P
5*	1553 SHIELD	39	SDISC5 / RTADDR1_4
6*	1553 CH 4A-	40	DDISC2-
7*	1553 CH 4A+	41	DDISC2+
8	GND	42	GND
9	~RTADDR_EN	43	TRIG_OUT3
10*	1553 SHIELD	44	TRIG_IN3
11*	1553 CH 3B-	45	DDISC1- (RS-485 CLK In/Out)
12*	1553 CH 3B+	46	DDISC1+ (RS-485 CLK In/Out)
13	GND	47	SDISC14 / RTADDR2_P
14*	1553 SHIELD	48	SDISC13 / RTADDR2_4
15*	1553 CH 3A-	49	GND
16*	1553 CH 3A+	50	IRIGB IN GND
17	SDISC4 / RTADDR1_3	51	~AUTO_TEST
18	SDISC3 / RTADDR1_2	52	IRIGB IN
19*	1553 SHIELD	53	GND
20*	1553 CH 2B-	54	TRIG_OUT2
21*	1553 CH 2B+	55	TRIG_IN2
22	GND	56	N/C
23*	1553 SHIELD	57	GND
24*	1553 CH 2A-	58	SDISC12 / RTADDR2_3
25*	1553 CH 2A+	59	SDISC11 / RTADDR2_2
26	SDISC2 / RTADDR1_1	60	GND
27	SDISC1 / RTADDR1_0	61	EXT_CLOCK_IN (TTL)
28	1553 SHIELD	62	GND
29	1553 CH 1B-	63	TRIG_OUT1
30	1553 CH 1B+	64	TRIG_IN1
31	GND	65	SDISC10 / RTADDR2_1
32	1553 SHIELD	66	SDISC9 / RTADDR2_0
33	1553 CH 1A-	67	SDISC8
34	1553 CH1A+	68	SDISC7

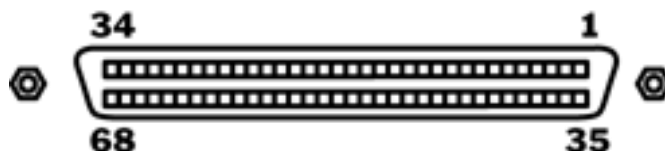


Table 1. SCSI-3 Connector Pin-Outs

**Table 2. Optional DB50 Connector Pin-Outs**  
(Cable Assemblies with this DB50 Auxiliary Connector are Usually Ordered Separately)

DB50 Pin#	Signal	DB50 Pin#	Signal
1	SDISC1 / RTADDR1_0	26	DDISC1+ (RS-485 CLK In/Out)
2	SDISC2 / RTADDR1_1	27	DDISC1- (RS-485 CLK In/Out)
3	GND	28	DDISC2+
4	SDISC3 / RTADDR1_2	29	DDISC2-
5	SDISC4 / RTADDR1_3	30	GND
6	GND	31	TRIG_IN1
7	SDISC5 / RTADDR1_4	32	TRIG_OUT1
8	SDISC6 / RTADDR1_P	33	GND
9	SDISC7	34	TRIG_IN2
10	SDISC8	35	TRIG_OUT 2
11	SDISC9 / RTADDR2_0	36	GND
12	GND	37	TRIG_IN3
13	~AUTO_TEST	38	TRIG_OUT 3
14	GND	39	GND
15	~RTADDR_EN	40	TRIG_IN4
16	GND	41	TRIG_OUT 4
17	N/C	42	GND
18	SDISC10 / RTADDR2_1	43	EXT_CLOCK_IN/Out (TTL)
19	SDISC11 / RTADDR2_2	44	GND
20	SDISC12 / RTADDR2_3	45	N/C
21	GND	46	IRIGB IN
22	SDISC13 / RTADDR2_4	47	N/C
23	SDISC14 / RTADDR2_P	48	IRIGB IN GND
24	N/C	49	N/C
25	GND	50	GND/SHIELD - Connected to metal DB hood (or to DB Connector if Plastic Hood)

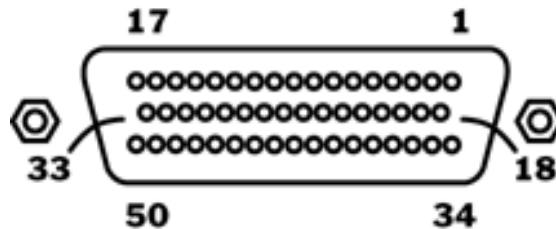


Table 2. Optional DB50 Connector Pin-Outs

Table 3 SCSI-DB Cross Reference (NA = Not Applicable/Connected)

SCSI Pin	DB Pin	Signal	SCSI Pin#	DB Pin	Signal
1	NA	1553 SHIELD	35	50	GND – Connected to SCSI Hood
2	NA	1553 CH 4B-	36	41	TRIG_OUT4
3	NA	1553 CH 4B+	37	40	TRIG_IN4
4	3	GND	38	8	SDISC6 / RTADDR1_P
5	NA	1553 SHIELD	39	7	SDISC5 / RTADDR1_4
6	NA	1553 CH 4A-	40	29	DDISC2-
7	NA	1553 CH 4A+	41	28	DDISC2+
8	6	GND	42	42	GND
9	15	~RTADDR_EN	43	38	TRIG_OUT3
10	NA	1553 SHIELD	44	37	TRIG_IN3
11	NA	1553 CH 3B-	45	27	DDISC1-
12	NA	1553 CH 3B+	46	26	DDISC1+
13	12	GND	47	23	SDISC14 / RTADDR2_P
14	NA	1553 SHIELD	48	22	SDISC13 / RTADDR2_4
15	NA	1553 CH 3A-	49	39	GND
16	NA	1553 CH 3A+	50	48	IRIGB IN GND
17	5	SDISC4 / RTADDR1_3	51	13	~AUTO_TEST
18	4	SDISC3 / RTADDR1_2	52	46	IRIGB IN
19	NA	1553 SHIELD	53	16	GND
20	NA	1553 CH 2B-	54	35	TRIG_OUT2
21	NA	1553 CH 2B+	55	34	TRIG_IN2
22	14	GND	56	N/C	N/C
23	NA	1553 SHIELD	57	25	GND
24	NA	1553 CH 2A-	58	20	SDISC12 / RTADDR2_3
25	NA	1553 CH 2A+	59	19	SDISC11 / RTADDR2_2
26	2	SDISC2 / RTADDR1_1	60		GND
27	1	SDISC1 / RTADDR1_0	61	43	EXT_CLOCK_IN
28	NA	1553 SHIELD	62	44	GND
29	NA	1553 CH 1B-	63	32	TRIG_OUT1
30	NA	1553 CH 1B+	64	31	TRIG_IN1
31	21	GND	65	18	SDISC10 / RTADDR2_1
32	NA	1553 SHIELD	66	11	SDISC9 / RTADDR2_0
33	NA	1553 CH 1A-	67	10	SDISC8
34	NA	1553 CH1A+	68	9	SDISC7