

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

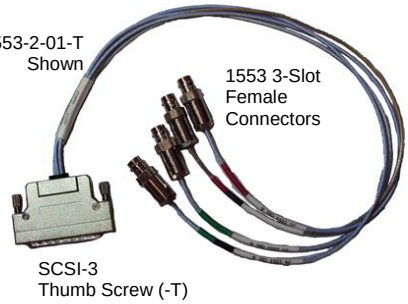
1553 SCSI-3 Connector Pin-Outs & Cable Assemblies

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)

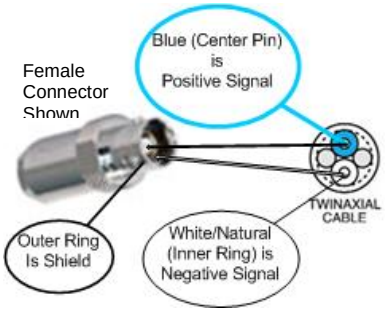


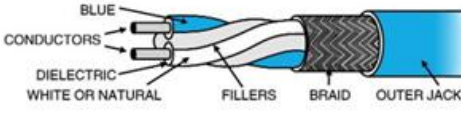
SCSI-3 Front Panel Connector Information:

- 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

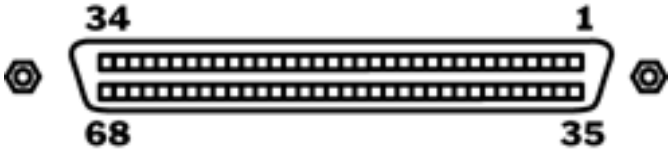


Table 1. SCSI-3 Connector Pin-Outs

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)

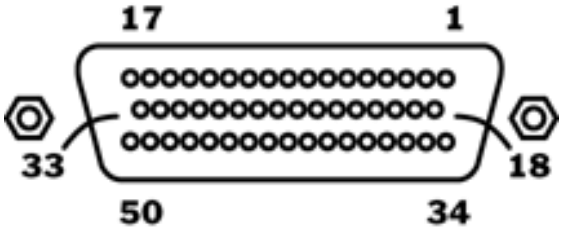


Table 2. Optional DB50 Connector Pin-Outs

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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP