

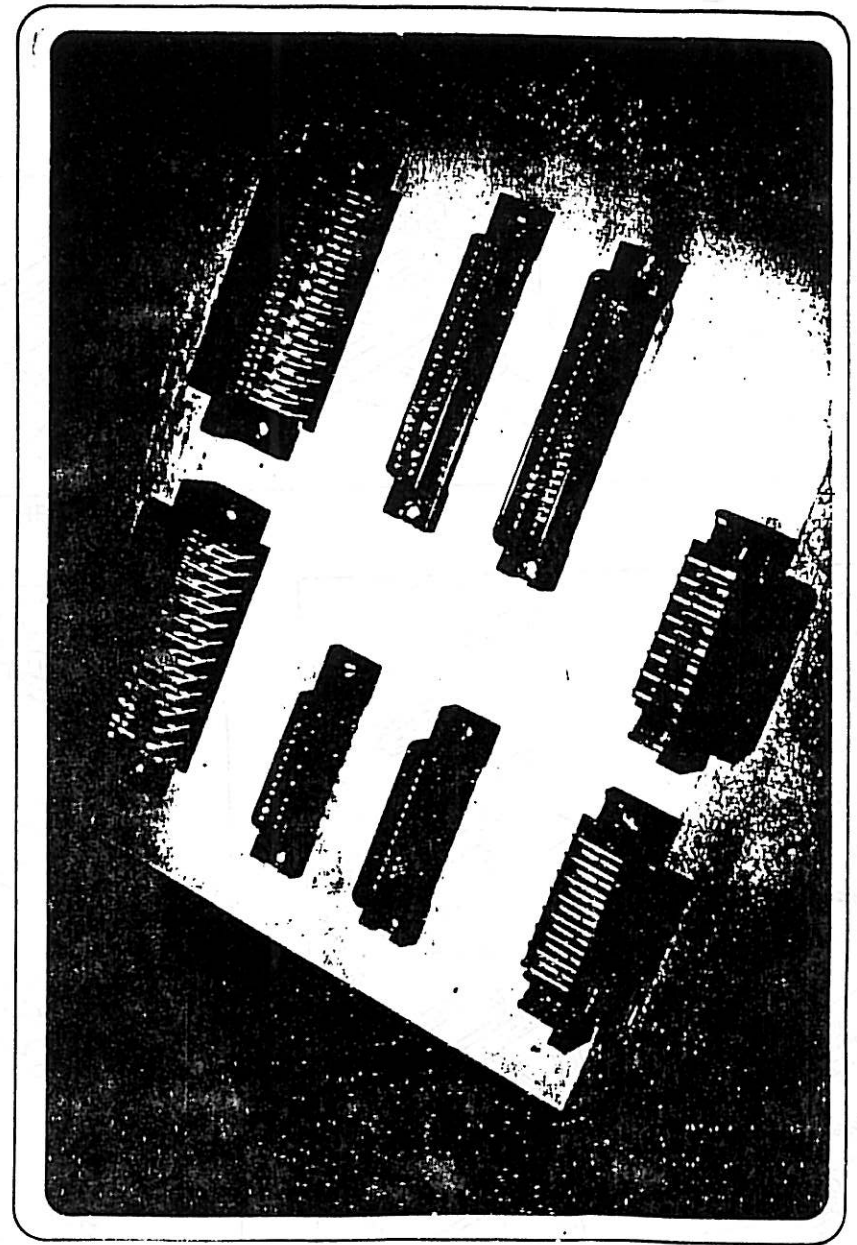
X3T9.2/87-143

Ed Reynolds
8/17/87

AMPLIMITE® .050 SERIES CONNECTORS

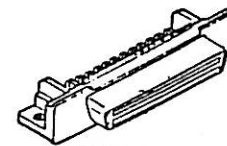
(.050 X .100 CENTERLINE
"D" STYLE CONNECTORS)

PRESENTED TO A.N.S.I. X3T9 COMMITTEE
FOR CONSIDERATION OF USE IN SCSI-2 AND WIDE SCSI
BY AMP INCORPORATED

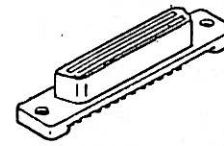


AMPLIMITE .050 SERIES CONNECTORS UNSHIELDED

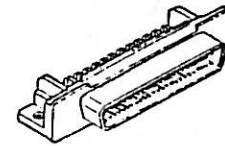
BOARD MOUNT



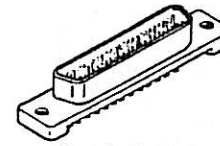
Right Angle Receptacle



Vertical Receptacle

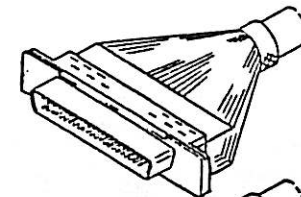


Right Angle Plug

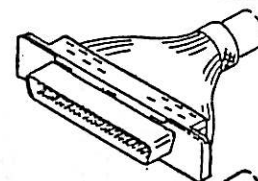


Vertical Plug

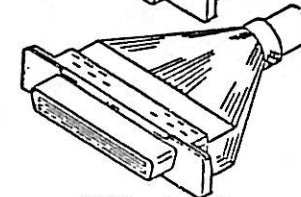
CABLE CONNECTORS



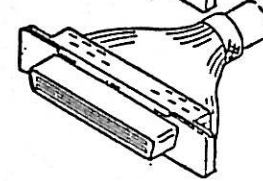
IDC Round to Flat



IDC Discrete

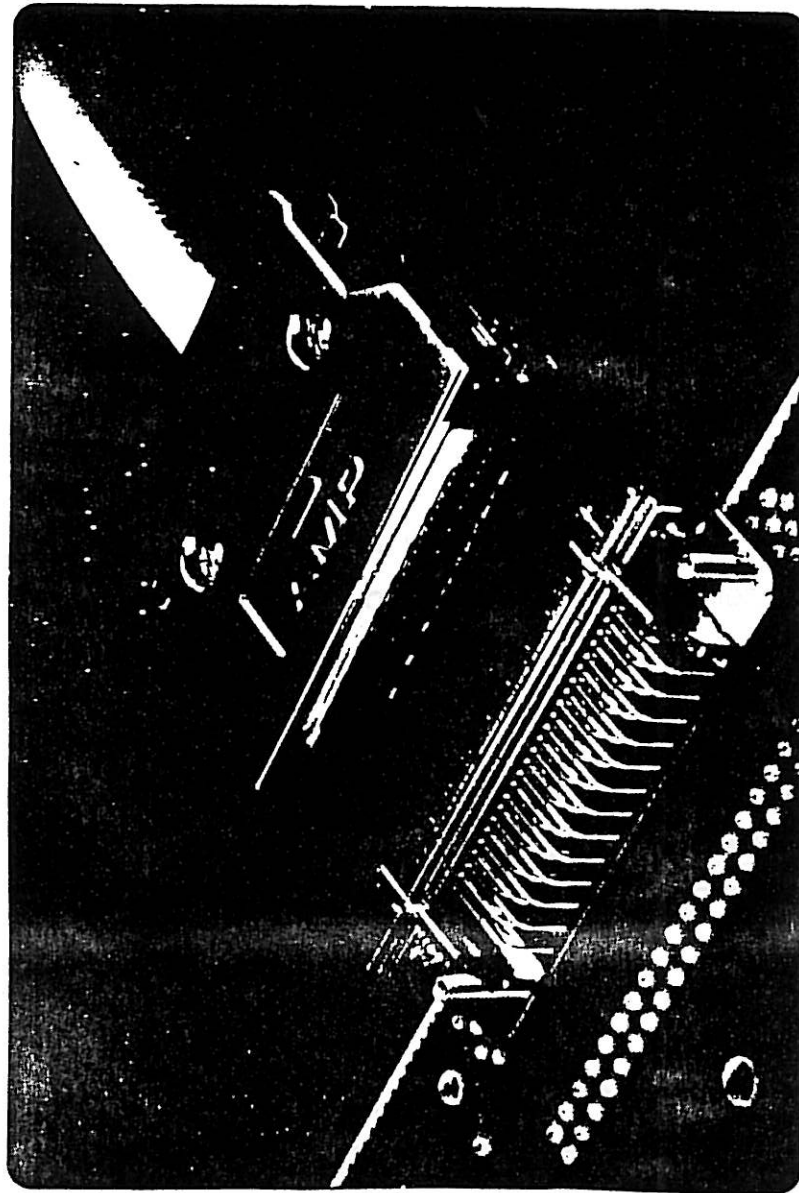
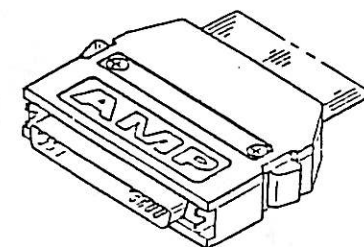
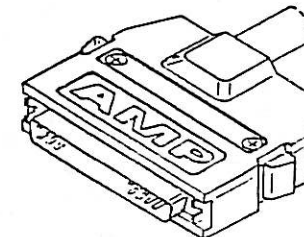
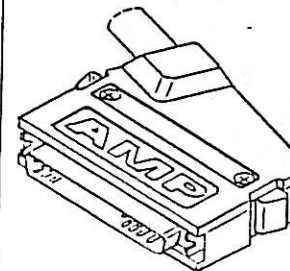


IDC Ribbon Cable



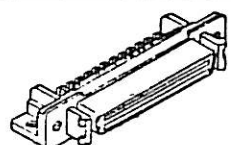
Solder Cup

BACK SHELLS

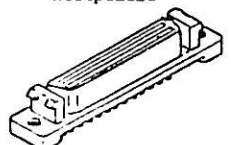


AMPLIMITE .050 SERIES CONNECTORS SHIELDED

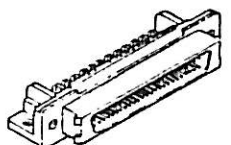
BOARD MOUNT



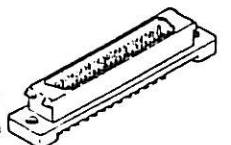
Right Angle Receptacle



Vertical Receptacle

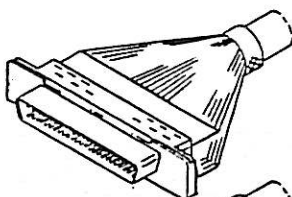


Right Angle Plug

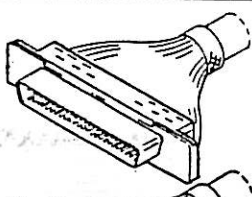


Vertical Plug

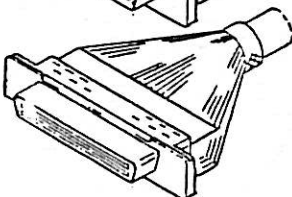
CABLE CONNECTORS



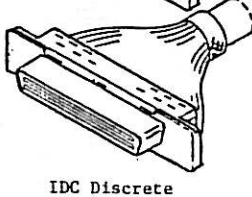
IDC Round to Flat



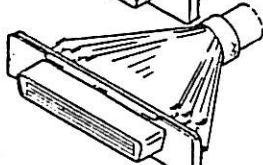
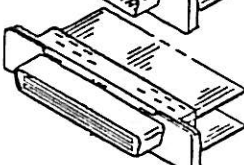
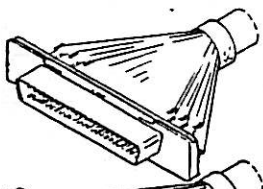
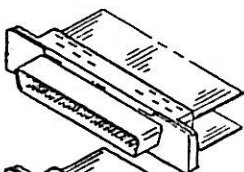
IDC Discrete



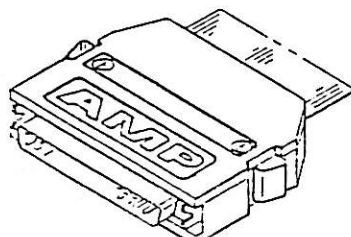
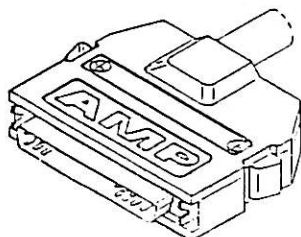
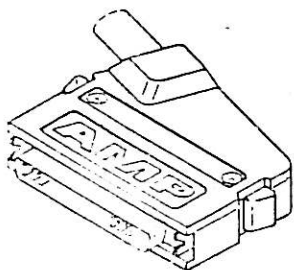
IDC Ribbon Cable



Solder Cup



BACK SHELLS



AMPLIMITE® .050 SERIES CONNECTOR PRODUCT SPECIFICATION

MATERIAL (CABLE CONNECTOR)

CONTACTS	Phosphor Bronze - Gold Duplex Plated
HOUSING	94 V-0 Rated Thermoplastic
SHELL	Tin Plated Steel
BACKSHELL	Nickel Plated Zinc

MATERIAL (PWB CONNECTOR)

CONTACTS	Phosphor Bronze - Gold Duplex Plated
HOUSING	94 V-0 SMT Compatible Thermoplastic
SHELL	Tin Plated Steel

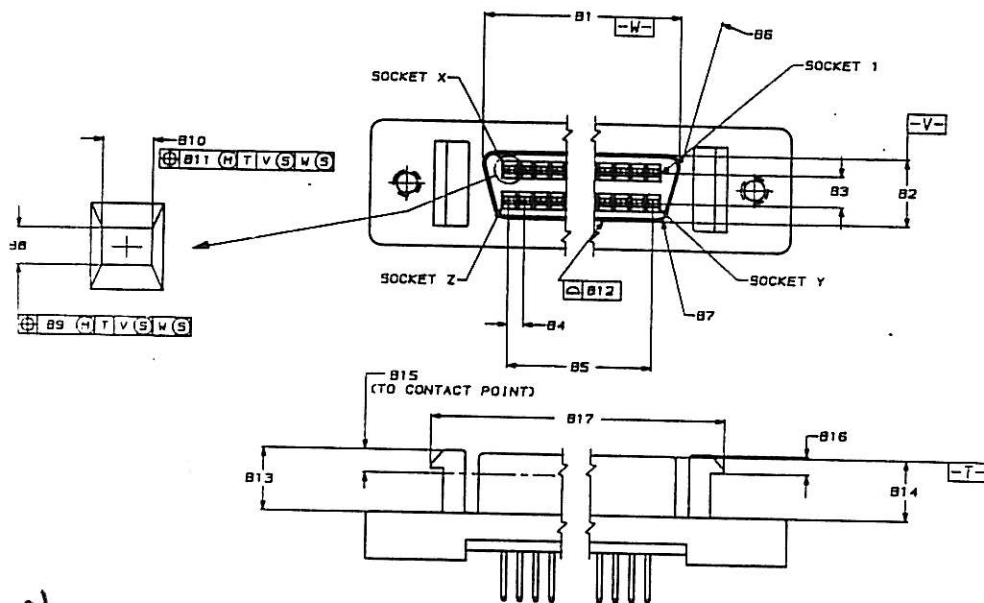
MECHANICAL

WIRE GAUGE	28 - 30 AWG
DURABILITY	100 cycles min.
INSERTION FORCE	1.5 oz. avg/contact
EXTRACTION FORCE	.75 oz. avg/contact

ELECTRICAL

CURRENT RATING	1 Amp
DIELECTRIC WITHSTANDING VOLTAGE	250 Volts AC
TERMINATION RESISTANCE	50 milliohms max.
INSULATION RESISTANCE	1000 Megohms min.
TEMPERATURE RANGE	-55° C to 105° C

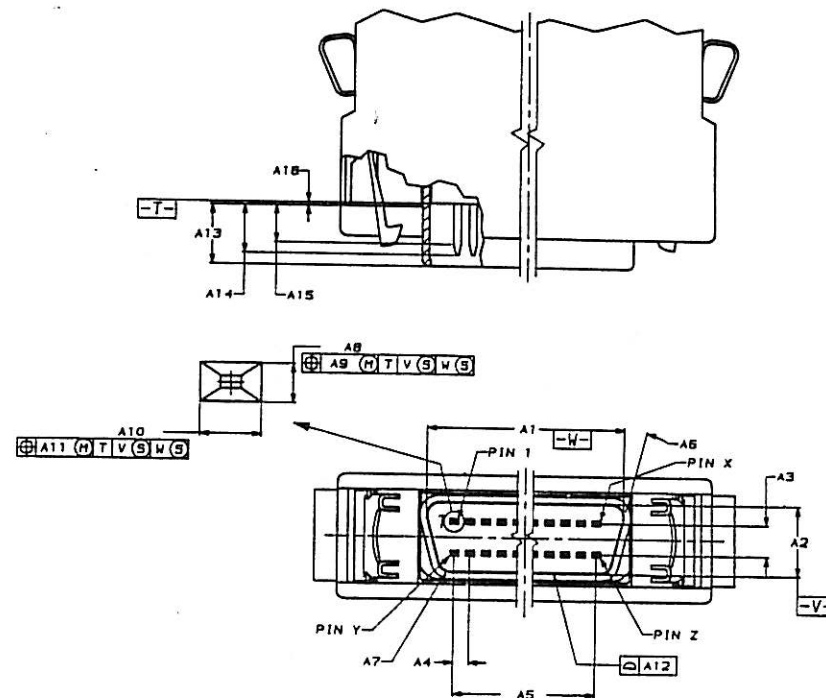
RECEPTACLE (BOARD VERSION) PROPOSED SPECIFICATION



DIMENSIONS	50 POSITION		60 POSITION	
	MILLIMETERS	INCHES	MILLIMETERS	INCHES
B1	34.70	1.366	41.05	1.616
B2	5.54	.218	5.54	.218
B3	2.54	.100	2.54	.100
B4	1.27	.050	1.27	.050
B5	30.48	1.200	36.83	1.450
B6	15*	15*	15*	15*
B7	1.00 R	.039 R	1.00 R	.039 R
B8	0.61±.05	.024±.002	0.61±.05	.024±.002
B9	0.15	.006	0.15	.006
B10	0.79±.03	.031±.001	0.79±.03	.031±.001
B11	0.15	.006	0.15	.006
B12	0.05	.002	0.05	.002
B13	5.10±.05	.201±.002	5.10±.05	.201±.002
B14	5.00±.13	.197±.005	5.00±.13	.197±.005
B15	1.85 MAX	.073 MAX	1.85 MAX	.073 MAX
B16	1.50±.03	.059±.001	1.50±.03	.059±.001
B17	42.29±.10	1.669±.004	48.64±.10	1.915±.004
SOCKET X	25		30	
SOCKET Y	26		31	
SOCKET Z	50		60	

AMP
P/N: 87-5870-110 REV. 0
DATE: 8-12-87

PLUG (CABLE VERSION) PROPOSED SPECIFICATION



DIMENSIONS	50 POSITION		60 POSITION	
	MILLIMETERS	INCHES	MILLIMETERS	INCHES
A1	34.85	1.372	41.20	1.622
A2	5.69	.224	5.69	.224
A3	2.54	.100	2.54	.100
A4	1.27	.050	1.27	.050
A5	30.48	1.200	36.83	1.450
A6	15*	15*	15*	15*
A7	1.04 R	.041 R	1.04 R	.041 R
A8	0.398±.010	.0156±.0004	0.398±.010	.0156±.0004
A9	0.23	.009	0.23	.009
A10	0.61±.03	.024±.001	0.61±.03	.024±.001
A11	0.23	.009	0.23	.009
A12	0.05	.002	0.05	.002
A13	4.90±.10	.193±.004	4.90±.10	.193±.004
A14	4.27 MAX	.168 MAX	4.27 MAX	.168 MAX
A15	2.64 MIN	.104 MIN	2.64 MIN	.104 MIN
A16	0.25±.13	.010±.005	0.25±.13	.010±.005
PIN X	25		30	
PIN Y	26		31	
PIN Z	50		60	

AMP
P/N: 87-5870-109 REV. 0
DATE: 8-12-87

AMPLIMITE[®]

.050 SERIES CONNECTORS

FEATURES

- * HIGH DENSITY (.050 X .100 CENTERLINE)
- * STAGGERED LEADS FOR EASY PWB ROUTINGS (FOUR ROWS .100 X .075 CENTERLINE)
- * FAMILIAR "D" TYPE POLARIZATION
- * RUGGED (RECEPTACLES ARE FULLY PROTECTED. SHIELDED VERSIONS HAVE DIE CAST STRUCTURAL COMPONENTS)
- * MULTIPLE SOURCES (A MINIMUM OF 3 INTERMATEABLE AND FOOTPRINT COMPATIBLE INDEPENDENT MANUFACTURERS)
- * SQUEEZE-TO-RELEASE LATCHES (USER FRIENDLY - ELIMINATES SCREW-TYPE HARDWARE)
- * DISCRETE OR MASS WIRE TERMINATION (FLAT RIBBON CABLE, ROUND-TO-FLAT, TWISTED PAIR, ETC.)
- * TAB AND RECEPTACLE CONTACTS (TABS MATE WITH TUNING FORK RECEPTACLES FOR CONTROL AND HIGH RELIABILITY)
- * SHIELDED AND UNSHIELDED (INTERNAL OR EXTERNAL CABINET APPLICATIONS)
- * NON-PROPRIETARY INTERFACE (NO PATENT COMPLICATIONS)
- * SHIELDED RECEPTACLE PROVIDES ESD AND SHORTING PROTECTION (PROTECTS SENSITIVE CIRCUITS)
- * SHIELD MATES BEFORE CONTACTS (GROUND MAKES FIRST, BREAKS LAST)
- * INTERFACE IS READILY ADAPTABLE TO DIVERSE CONNECTOR STYLES (CAN SATISFY MANY CONFIGURATION REQUIREMENTS)
- * KEYING AND MANY HARDWARE OPTIONS
- * COMMERCIALLY AVAILABLE (YEARS OF COMMERCIAL USE)

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