

INTRODUCTION:

Adam Tech IDC-Flat Cable D-Subs combine D-Sub versatility with fast, easy IDC termination to standard .050" center flat cable. Our superior contact design offers a gas tight time design for termination reliability and a dual wipe mating area for contact redundancy. This design conforms to all applicable requirements of MIL-C-83503, ISD-2110, EIA standards RS232, RS442, RS449 and IEC 48-B-106 standards. The low profile metal shell provides long term cycle life and EMI/ESD reductions which meet FCC Part 15, Subpart J emission units.

FEATURES:

- Low profile
- Cover has cable guides and is factory pre-assembled
- Automatic assembly machine compatible
- Accepts 30-28 AWG. cable on .050" centers
- Available with metal face to shield EMI/RFI Emissions
- No cable stripping, one step termination to flat cable

MATING OPTIONS:

Mates with Adam Tech D-Sub Series DPL, DSL, DPT, DST, DPQ, DSQ, DPH, DSH, DDP and all industry standard D-Subminiature connectors

SPECIFICATIONS:

Material:

Shell: Steel, tin-plated

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Insulator color: Black

Optional colors: Blue, Gray

Contacts: Phosphor Bronze

Rivet insert: Brass, nickel-plated

Plating:

5 μ m gold nom. (optional 30 μ m) to MIL-G-45204, Type II, Grade C on contact area over 50 μ m nickel underplate to QQ-N-290, Class 2, Grade C

Electrical:

Operation voltage: 600 VDC max

Current rating: 5 Amps max

Contact resistance: 20 m Ω max

Insulation resistance: 5000 M Ω min @ 1000 VDC between adjacent contacts (75°F and 50% R.H.)

Dielectric withstanding voltage: 1000 VAC min rms (sea level)

Capacitance: 2 pF max between adjacent contacts

Mechanical:

Insertion force: 10 ozs. max with .041" dia. pin

Withdrawal force: 7.1 ozs. min with .039" dia. pin

Recommended wire size: 28 AWG. stranded

Environmental:

Operating temperature: -65°C to +125°C

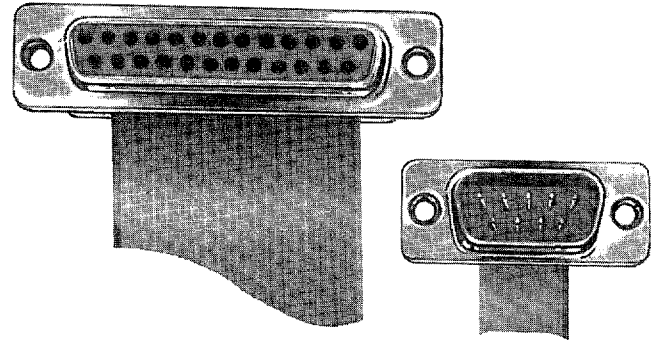
PACKAGING:

Anti-static plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

Recognized under the component program of Underwriters Laboratories, Inc. No. E167232

Certified by Canadian Standards Association No. LR75112



ORDERING INFORMATION

DB25

SF

M

2

SHELL SIZE/ POSITIONS

DE09 = 9 Position

DA15 = 15 Position

DB25 = 25 Position

DC37 = 37 Position

DC50 = 50 Position

MOUNTING

1 = .130" mounting holes

2 = #4-40 threaded flush inserts (metal face only)

CONTACT TYPE

PF = Plug, IDC

SF = Socket, IDC

BODY

CONSTRUCTION

M = Metal shell

P = All plastic body

Strain Relief Part No.:

DSR - xx

(xx = No. of Positions)

OPTIONS:

Add as suffix to basic part number

30 = 30 μ m. gold in contact area

BU = Blue color insulator

GY = Gray color insulator

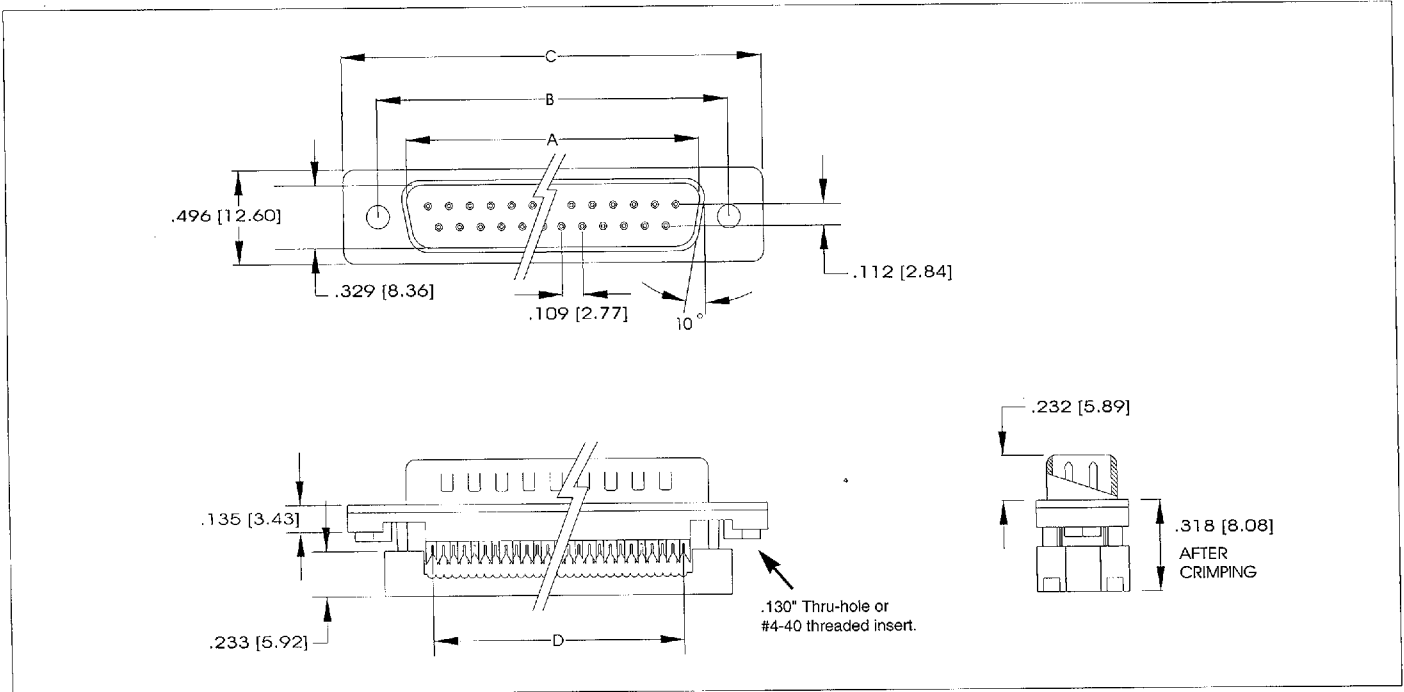
APT = Caps preassembled and connectors packaged in plastic tubes for automatic insertion machines.

DPT = Caps and bodies of connector each packaged separately in plastic tubes for automatic insertion machines

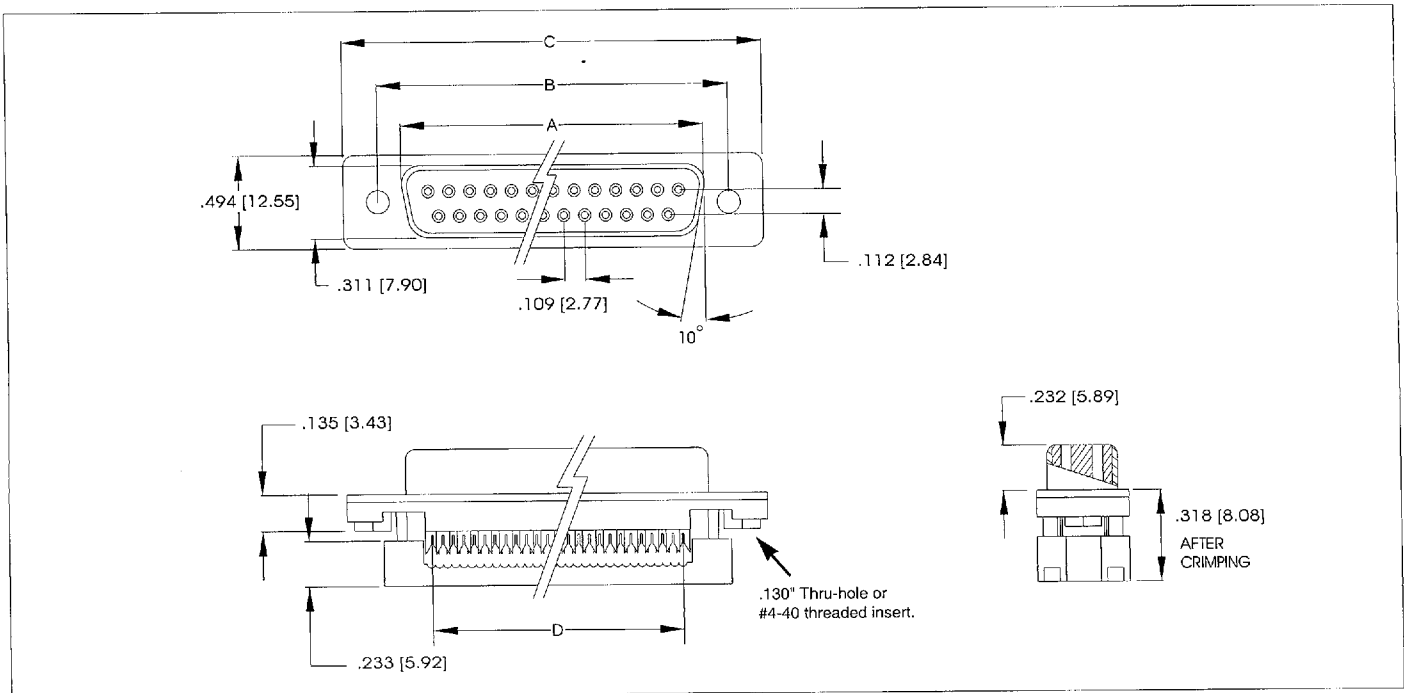
ASSEMBLY TOOLING

Hand tool, bench press and accessories on page 69.

PLUG ASSEMBLY



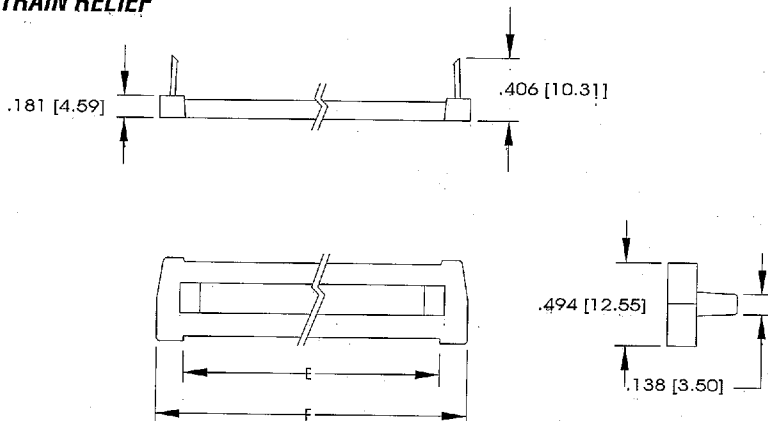
SOCKET ASSEMBLY



Unit: Inch / mm

Dimensional: Socket Assembly					Dimensional: Plug Assembly				
CONTACTS	A	B	C	D	CONTACTS	A	B	C	D
9	.643 (16.33)	.984 (24.99)	1.213 (30.81)	.400 (10.16)	9	.666 (16.92)	.984 (24.99)	1.213 (30.81)	.400 (10.16)
15	.971 (24.66)	1.312 (33.32)	1.541 (39.14)	.700 (17.78)	15	.994 (25.25)	1.312 (33.32)	1.541 (39.14)	.700 (17.78)
25	1.511 (38.38)	1.852 (47.04)	2.088 (53.04)	1.200 (30.48)	25	1.534 (38.96)	1.852 (47.04)	2.088 (53.04)	1.200 (30.48)
37	2.159 (54.84)	2.500 (63.50)	2.729 (69.32)	1.800 (45.72)	37	2.182 (55.42)	2.500 (63.50)	2.729 (69.32)	1.800 (45.72)

STRAIN RELIEF



Unit: Inch / mm

Dimensional:		
CONTACTS	E	F
9	.480 (12.19)	.888 (22.56)
15	.780 (19.81)	1.215 (30.86)
25	1.283 (32.59)	1.754 (44.55)
37	1.885 (47.88)	2.413 (61.29)

SOCKET - 50 POSITION

