TE connectivity

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Information Specialist   What can we help you find?

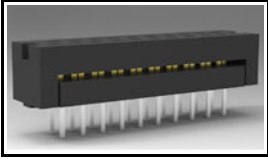| Products | Industries | Resources | About TE | My Account | Innovation | Support Center |

1-746610-8 Product Details

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1-746610-8

TE Internal Number: 1-746610-8

✔ Active

📄 View 3D PDF

AMP-LATCH Ribbon Cable Connectors

🍃 Always EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:

- AMP-LATCH Product Line
- Wire-to-Board
- Applies To Printed Circuit Board
- Connector Assembly
- Connector Style = Plug

View all Features

Quick Links

- ▷ Pricing & Availability
- ▷ Search for Tooling
- ▷ Product Feature Selector
- ▷ Contact Us About This Product

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Documentation & Additional Information

Product Drawings:
- KIT, AMP-LATCH DIP PLUG, PREASSEMBLED, .100 X .100 C... (PDF, English)

Catalog Pages/Data Sheets:
- 7-1773458-6_AMPLATCH_QRG (PDF, English)
- Ribbon Cable Interconnect Solutions (PDF, English)

Product Specifications:
- Connector, Round Conductor Cable, Paddleboard & Plug... (PDF, English)

Application Specifications:
- None Available

Instruction Sheets:
- Connector-Specific Kit for AMP-LATCH DIP Connectors (PDF, English)

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version G)
- 3D Model (IGES, Version G)
- 3D Model (STEP, Version G)

List all Documents

Additional Information:
- Product Line Information

Related Products:
- Tooling

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Line = AMP-LATCH
- Connector Type = Connector Assembly
- PCB Mounting Orientation = Vertical
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- UL File Number = E28476
- CSA File Number = LR 7189

Electrical Characteristics:
- Contact - Rated Current (A) = 1
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 250

Termination Features:
- Wire/Cable Size (AWG) = 26 – 30

Housing Features:
- Connector Style = Plug
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Color = Black
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Positions = 34
- Number of Rows = 2
- Tail Orientation = In-line

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave

- Wire/Cable Size (mm²) = 0.051 – 0.15
- Wire/Cable Size (CMA) = 101 – 296
- Termination Method to PC Board = Through Hole - Solder
- Termination Method to Wire/Cable = Insulation Displacement Crimp (IDC)

Dimensions:
- Tail Length (mm [in]) = 3.96 [0.156]
- PCB Thickness, Recommended (mm [in]) = 3.18 [0.125]
- Length (X-Axis) (mm [in]) = 47.75 [1.8799]
- Width (Z-Axis) (mm [in]) = 7.06 [0.278]
- Profile Height (Y-Axis) (mm [in]) = 6.43 [0.253]

Body Features:
- Row-to-Row Spacing (mm [in]) = 2.54 [0.100]

Contact Features:
- Contact Type = Pin
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold or Palladium Nickel or Performance Based
- Contact Plating, Mating Area, Thickness (µm [µin]) = 2.54 [100]
- Contact Plating, Termination Area, Material = Tin
- Contact Plating, Termination Area, Thickness (µm [µin]) = 2.54 [100]

solder capable to 265°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency/Standard = UL, CSA
- UL Rating = Recognized
- UL Voltage Rating (VAC) = 250

Environmental:
- Operating Temperature (°C [°F]) = -65 – +105 [-85 – +221]

Conditions for Usage:
- Applies To = Printed Circuit Board
- Accepts Wire Insulation Diameter, Range (mm [in]) = 0.81 – 1.07 [0.032 – 0.042]

Operation/Application:
- Application Use = Wire-to-Board
- Contact Transmits (Typical Application) = Signal (Data)

Packaging Features:
- Packaging Method = Tube

Other:
- Series = AMP-LATCH DIP Plug
- Brand = AMP

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P	LTR	DESCRIPTION	DATE	DWN	APVD
	H1	REVISED PER ECO-11-005033	23MAR11	RK	HMR
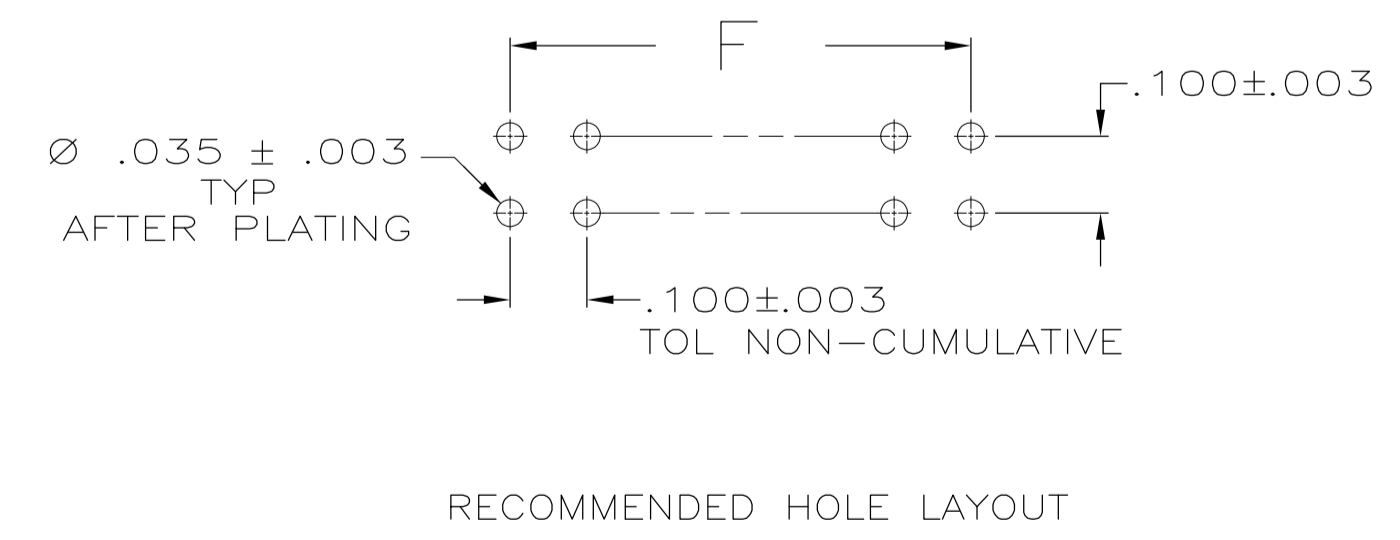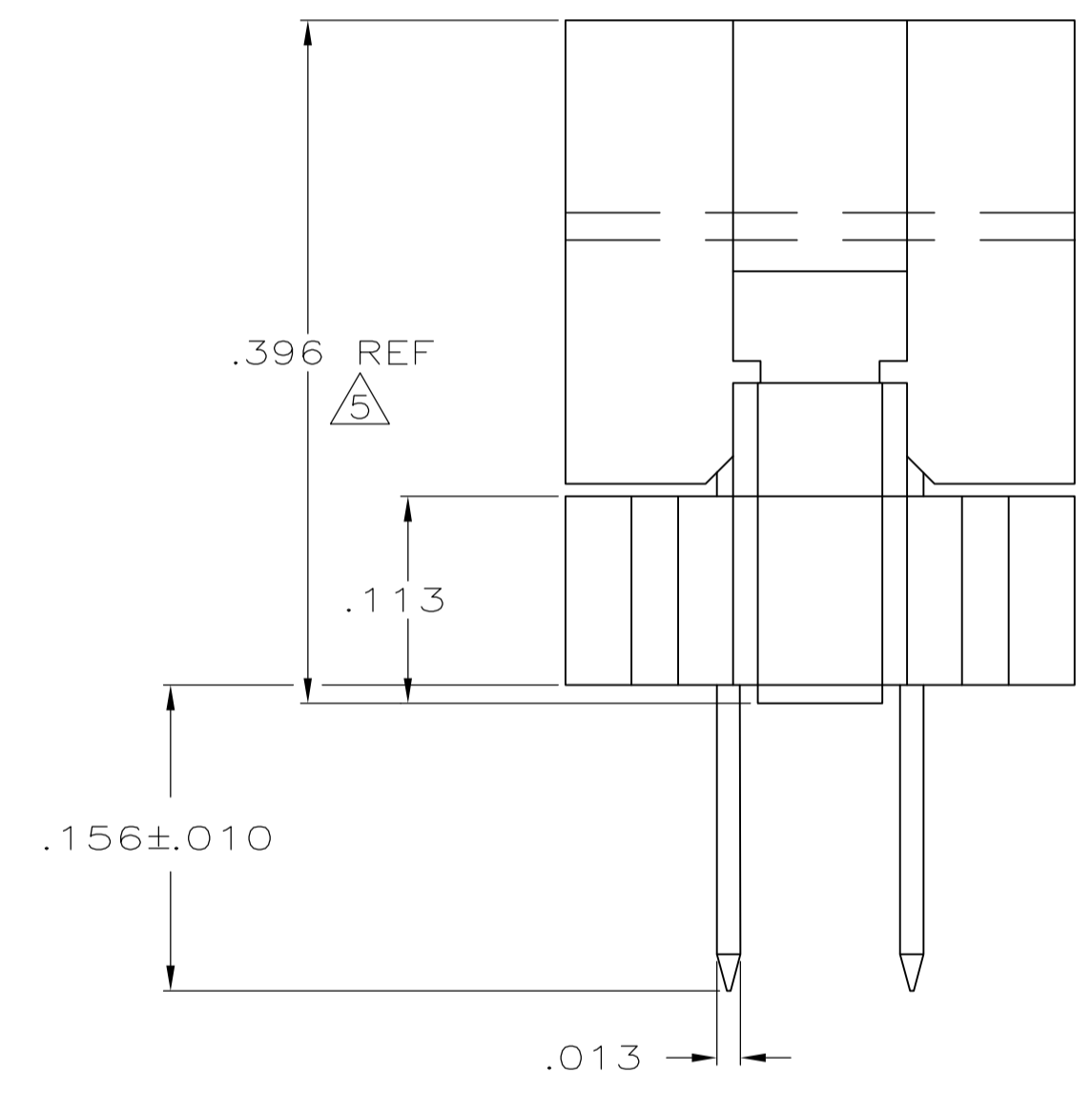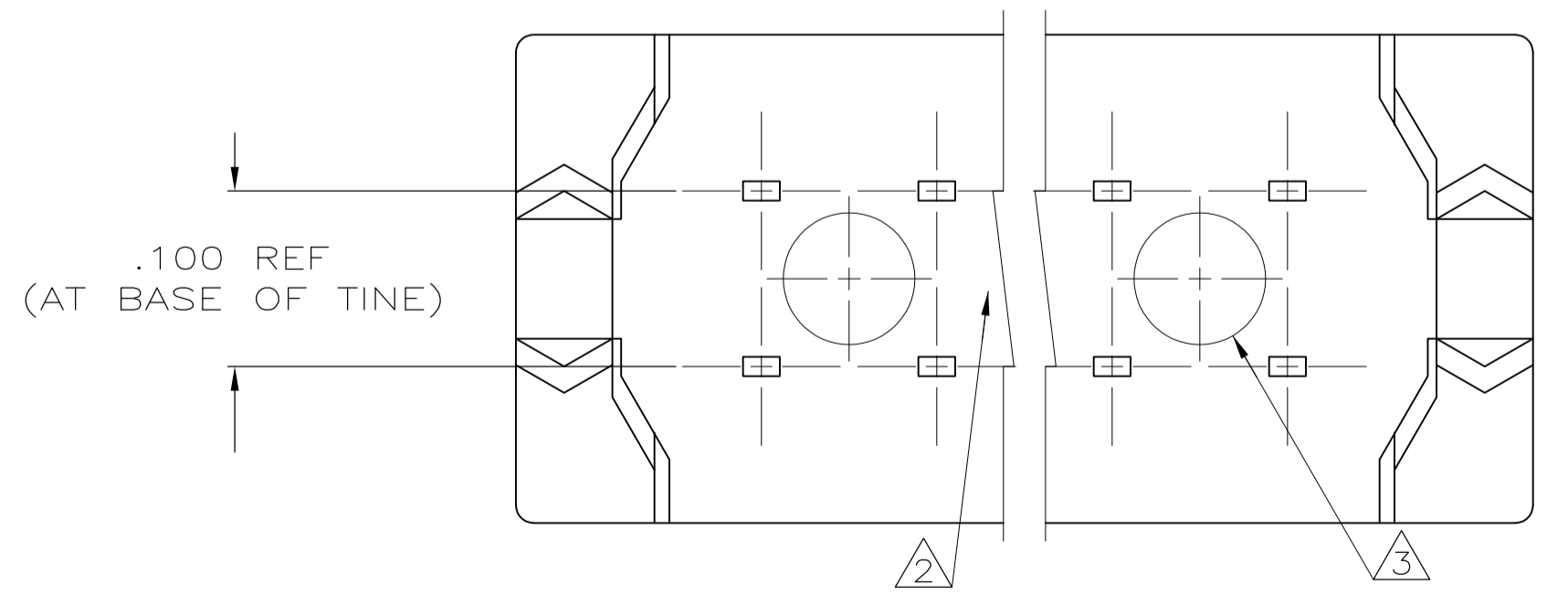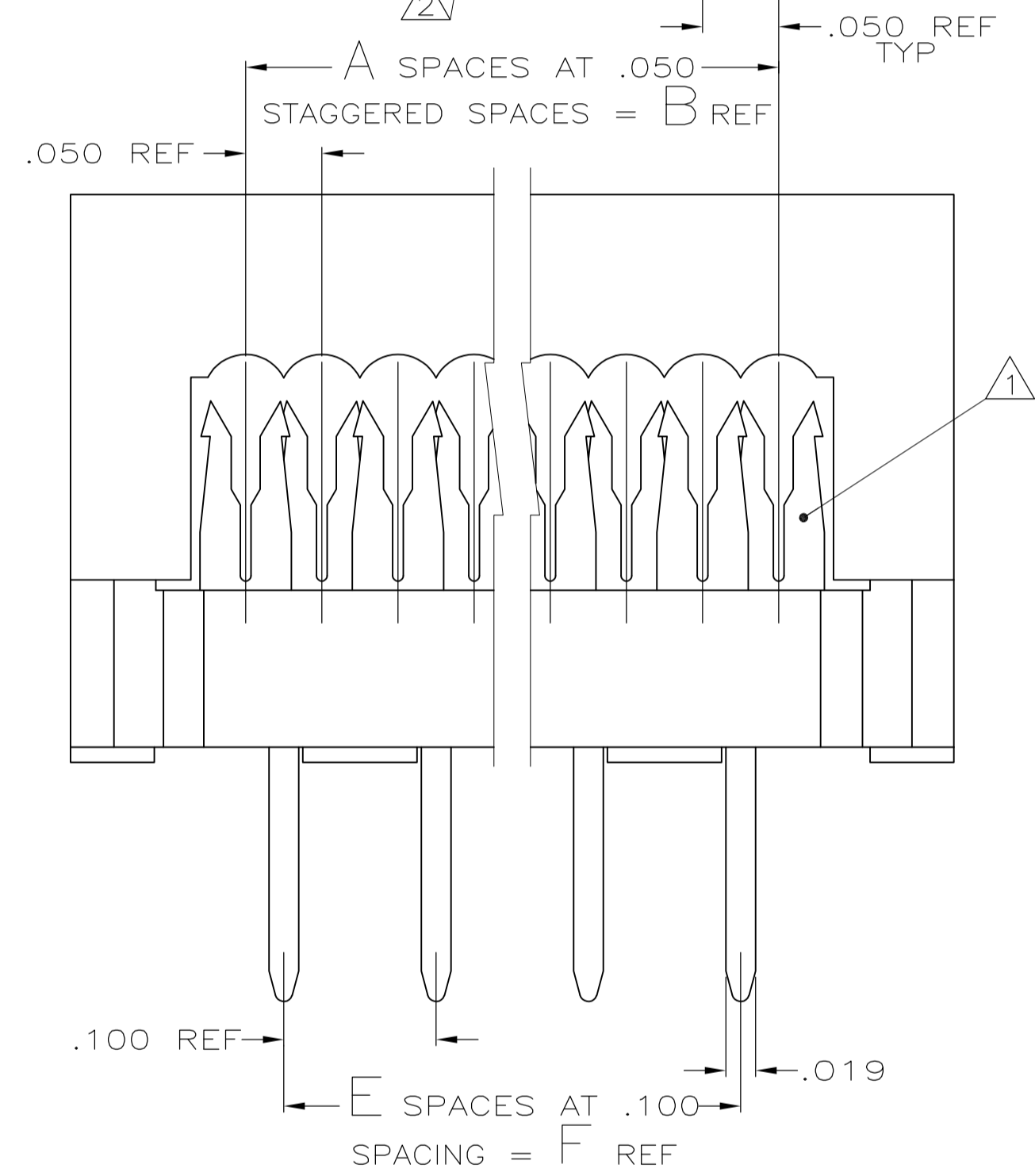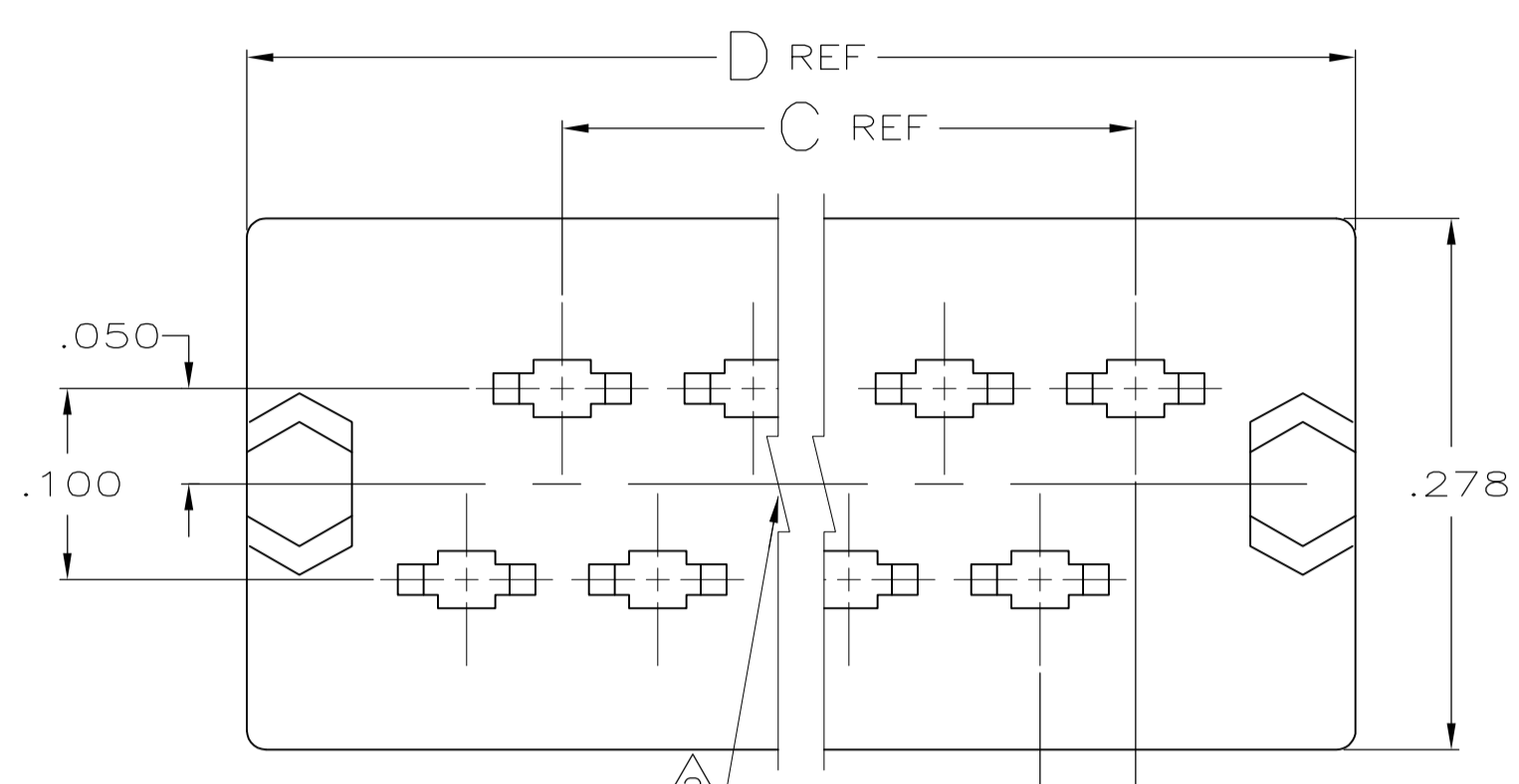
/1\ CONTACTS DESIGNED FOR 26 & 28 AWG STRANDED OR
26, 28, & 30 AWG SOLID WIRE.

/2\ AMP TRADEMARK LOCATED IN APPROX AREA SHOWN.

/3\ STANDOFFS: POS 10   (2) STANDOFFS AS SHOWN.
              14-16 (3) STANDOFFS, (1) CENTERED BETWEEN (2) SHOWN
              20-26 (4)   (2)
              30   (5)   (3)
              34   (6)   (4)
              40-44 (7)   (5)
              50   (8)   (6)
              60   (9)   (7)
              64   (10)   (8)

/4\ .000100-.000200 BRIGHT TIN
    LEAD, ALL OVER .000050 NICKEL.

/5\ HEIGHT AFTER TERMINATION IS .253 REF.

/6\ .000005 MIN GOLD ON RIBBON CABLE TERMINATION AREA
    .000100-.000200 MIN MATTE TIN ON SOLDER TAILS, ALL OVER
    .000050 MIN NICKEL.

/7\ MOLDED PARTS, 94V-0 RATED THERMOPLASTIC, COLOR: BLACK.
    CONTACTS: PHOS BRONZE.

D REF
C REF
.050
.100
.278
A SPACES AT .050
STAGGERED SPACES = B REF
.050 REF TYP
.050 REF
.396 REF /5\
.113
.156±.010
.013
.100 REF
.019
E SPACES AT .100
SPACING = F REF
/1\

.100 REF
(AT BASE OF TINE)
/2\
/3\

Ø .035 ± .003
TYP
AFTER PLATING
F
.100±.003
.100±.003
TOL NON-CUMULATIVE
RECOMMENDED HOLE LAYOUT

	F	E	D	C	B	A	NO OF POSN	PART NO
/6\	2.100	21	2.380	2.100	2.150	43	44	2-746610-6
/6\	3.100	31	3.380	3.100	3.150	63	64	2-	-5
/6\	2.900	29	3.180	2.900	2.950	59	60	2-	-4
/6\	1.100	11	1.380	1.100	1.150	23	24	2-	-3
/6\	.600	6	.880	.600	.650	13	14	2-	-2
/6\	.400	4	.680	.400	.450	9	10	2-	-1
/6\	2.400	24	2.680	2.400	2.450	49	50	2-	-0
/6\	1.900	19	2.180	1.900	1.950	39	40	1-	-9
/6\	1.600	16	1.880	1.600	1.650	33	34	1-	-8
/6\	1.400	14	1.680	1.400	1.450	29	30	1-	-7
/6\	1.200	12	1.480	1.200	1.250	25	26	1-	-6
/6\	.900	9	1.180	.900	.950	19	20	1-	-5
/6\	.700	7	.980	.700	.750	15	16	1-	-4
OBSOLETE /4\	2.100	21	2.380	2.100	2.150	43	44	1-	-3
OBSOLETE /4\	3.100	31	3.380	3.100	3.150	63	64	1-	-2
OBSOLETE /4\	2.900	29	3.180	2.900	2.950	59	60	1-	-1
OBSOLETE /4\	2.400	24	2.680	2.400	2.450	49	50	1-	-0
/4\	1.900	19	2.180	1.900	1.950	39	40		-9
/4\	1.600	16	1.880	1.600	1.650	33	34		-8
OBSOLETE /4\	1.400	14	1.680	1.400	1.450	29	30		-7
/4\	1.200	12	1.480	1.200	1.250	25	26		-6
OBSOLETE /4\	1.100	11	1.380	1.100	1.150	23	24		-5
/4\	.900	9	1.180	.900	.950	19	20		-4
/4\	.700	7	.980	.700	.750	15	16		-3
/4\	.600	6	.880	.600	.650	13	14		-2
/4\	.400	4	.680	.400	.450	9	10	746610 -1
CONTACT FINISH	F	E	D	C	B	A	NO OF POSN	PART NO

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	L. VARELA - DOCK5	11-29-86
CHK	C. ROHDE	11-29-04
APVD	M. WALMSLEY	11-29-04

DIMENSIONS:
INCHES
TOLERANCES UNLESS
OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .005
4 PLC ± -
ANGLES ± - ± -

PRODUCT SPEC
108-40013
APPLICATION SPEC
114-40005
WEIGHT -

MATERIAL
FINISH
CONTACTS: SEE TABLE
/1\

≡TE TE Connectivity

NAME
KIT, AMP-LATCH DIP PLUG,
PREASSEMBLED, .100 X .100 CENTERS,

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
| A1 | 00779 | C-746610 | - |

CUSTOMER DRAWING

| SCALE | NTS | SHEET 1 OF 1 | REV H1 |

4805 (3/11)