My Cart | My Part Lists | Sign In/Register    English (Change)

**Have a Question?**
Chat with a Product
Information Specialist

What can we help you find?

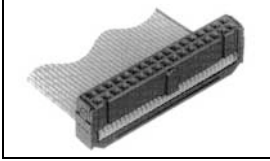Products    Industries    Resources    About TE    My Account    Innovation    Support Center

# 1-1658622-0 Product Details

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**1-1658622-0**

TE Internal Number: 1-1658622-0

✔ 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 Wire/Cable
- Connector Assembly
- Connector Style = Receptacle

View all Features

Add to My Part List    Request Sample    Find Similar Products    Buy Product

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## Documentation & Additional Information

**Product Drawings:**
- RECEPTACLE ASSY, CENTER & MILITARY POLARIZATION LEAD... (PDF, English)

**Catalog Pages/Data Sheets:**
- Ribbon Cable Interconnect Solutions (PDF, English)

**Product Specifications:**
- Connector, Flat Cable Round Conductor, AMP-LATCH Nov... (PDF, English)

**Application Specifications:**
- AMP-LATCH Novo Receptacles for Ribbon Cable with Con... (PDF, English)

**Instruction Sheets:**
- CONNECTOR-SPECIFIC KIT 768341-1 F/AMP-LATCH STANDARD... (PDF, English)

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

**Additional Information:**
- Product Line Information

**Related Products:**
- Tooling
- Mating Products (64)

List all Documents

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

**Product Type Features:**
- Product Line = AMP-LATCH
- Connector Type = Connector Assembly
- Series = NOVO
- Shrouded = No
- Termination Method to Wire/Cable = Insulation Displacement Crimp (IDC)
- 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 – 28
- Wire/Cable Size (mm²) = 0.08 – 0.15
- Wire/Cable Size (CMA) = 158 – 296

**Dimensions:**
- Length (X-Axis) (mm [in]) = 68.07 [2.6799]
- Width (Z-Axis) (mm [in]) = 7.49 [0.2949]
- Profile Height (Y-Axis) (mm [in]) = 15.16 [0.5968]

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

**Configuration Features:**
- Number of Positions = 50
- Number of Rows = 2

**Industry Standards:**
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- 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 = Wire/Cable
- Accepts Wire Insulation Diameter, Range (mm [in]) = 0.787 – 0.94 [0.031 – 0.037]

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

**Packaging Features:**
- Packaging Method = Tube

**Contact Features:**
- Contact Design = Tuning Fork
- Contact Type = Socket
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold or Palladium Nickel or Performance Based
- Contact Plating, Mating Area, Thickness (µm [µin]) = 0.76 [29.92]

**Housing Features:**
- Connector Style = Receptacle
- Centerline (mm [in]) = 2.54 [0.100]
- Mating Alignment = With
- Mating Alignment Type = Polarization
- Housing Color = Black
- UL Flammability Rating = UL 94V-0

**Other:**
- Brand = AMP

## Corporate Information

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Careers

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## Quick Links

Distributor Inventory

Product Cross Reference

Documents & Drawings

Product Compliance Support Center

Site Map

## Customer Support

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Manage Your Account

## Keep Me Informed

Provide Website Feedback

| LOC | DIST | | REVISIONS | | | | |
|-----|------|---|-----------|---|---|---|---|
| GP | 00 | P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | | | B1 | REVISED PER ECO-11-004835 | 11MAR11 | RK | HMR |

TERMINATED VIEW

.422±.010    .464±.010

1. MOLDED PARTS: UL RATED 94V-0 THERMOPLASTIC, BLACK.

2. CONTACTS: PHOSPHOR BRONZE PER QQ-B-750.

3. CONTACTS: PLATED WITH .000030 MIN GOLD IN LOCALIZED GOLD PLATE AREA, .000050 MIN TIN ON TERMINATION END, ALL OVER .000050 MIN NICKEL ON ENTIRE CONTACT.
OR
GOLD FLASH OVER PALLADIUM-NICKEL PLATE .000030 MIN TOTAL IN LOCALIZED GOLD PLATE AREA, .000050 MIN TIN ON TERMENATION END, ALL OVER .000050 MIN NICKEL ON ENTIRE CONTACT.

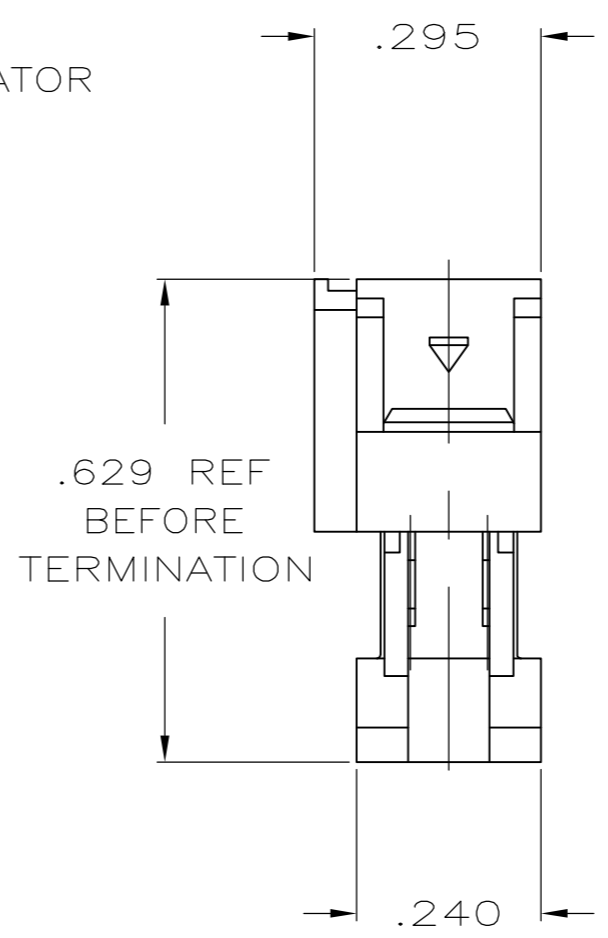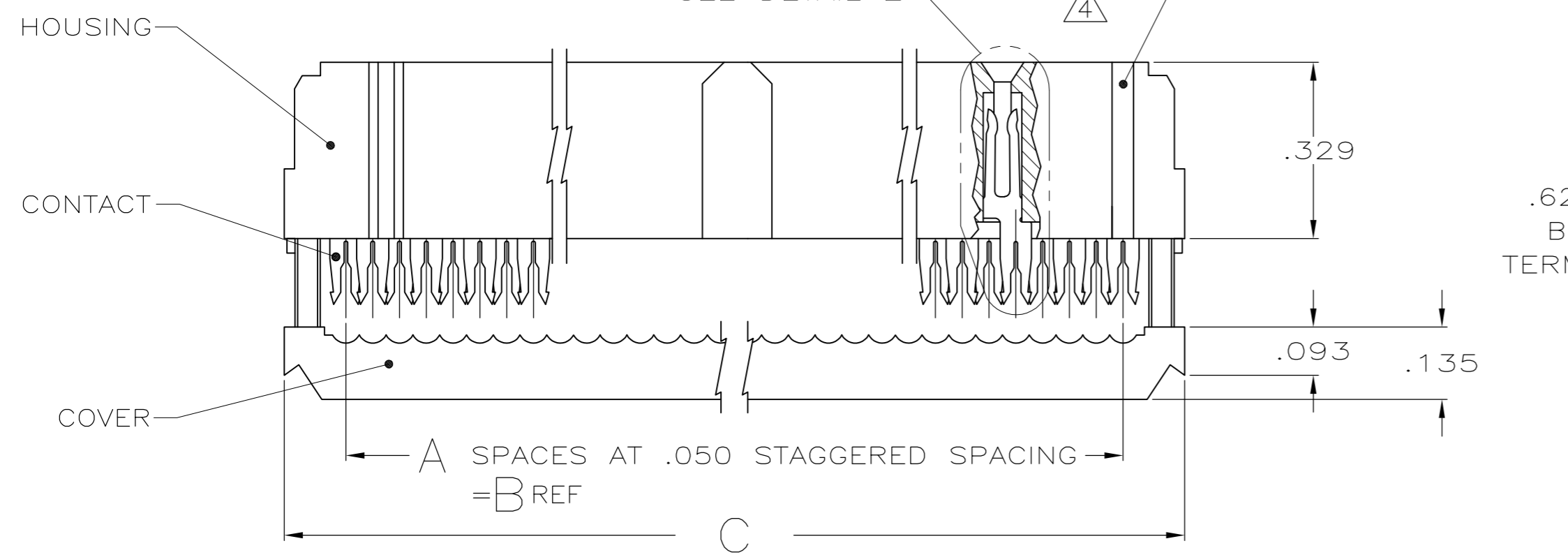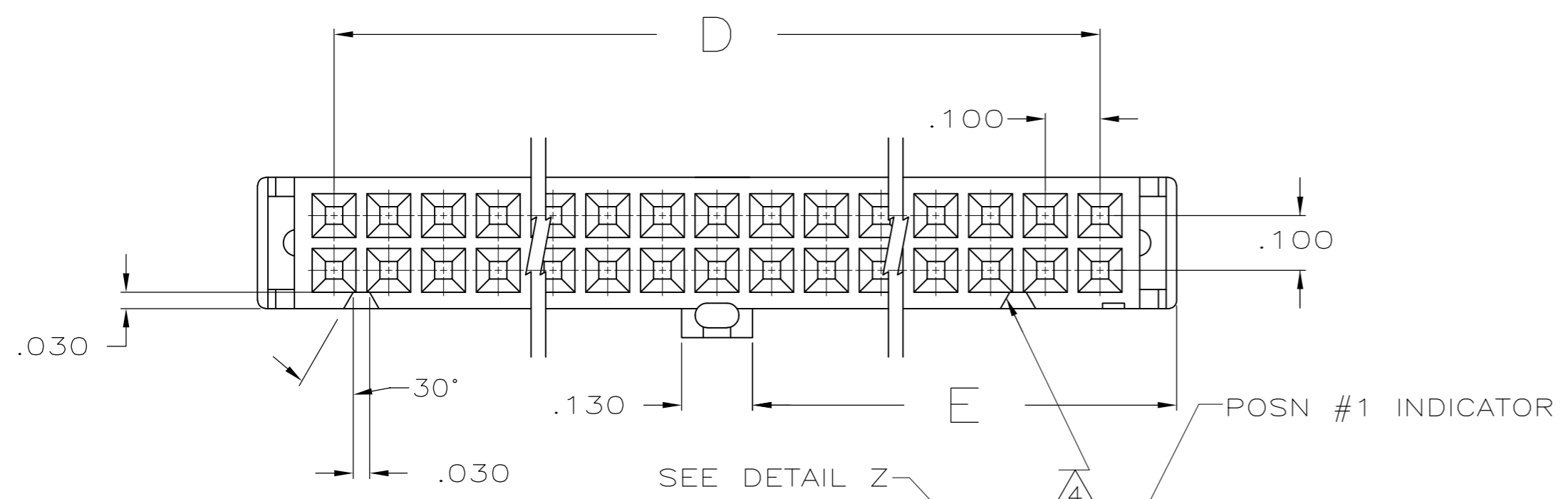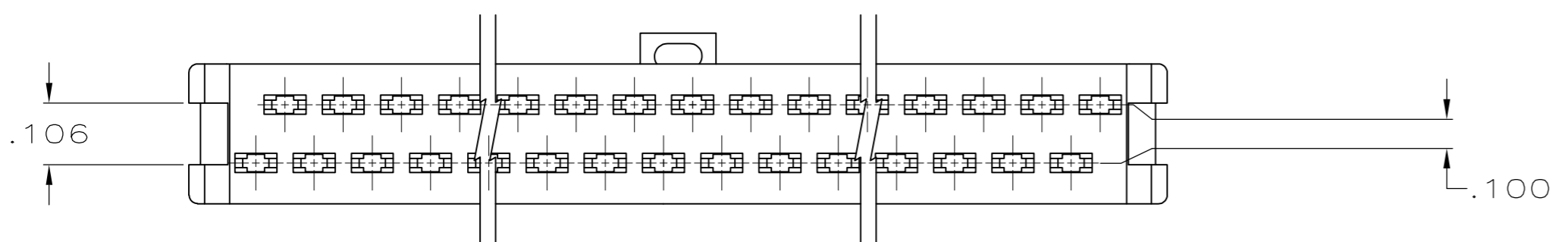4. POLARIZING FEATURE DOES NOT EXIST ON SAME END AS THE POSN #1 INDICATOR ON 10 AND 14 POSN PRODUCT.
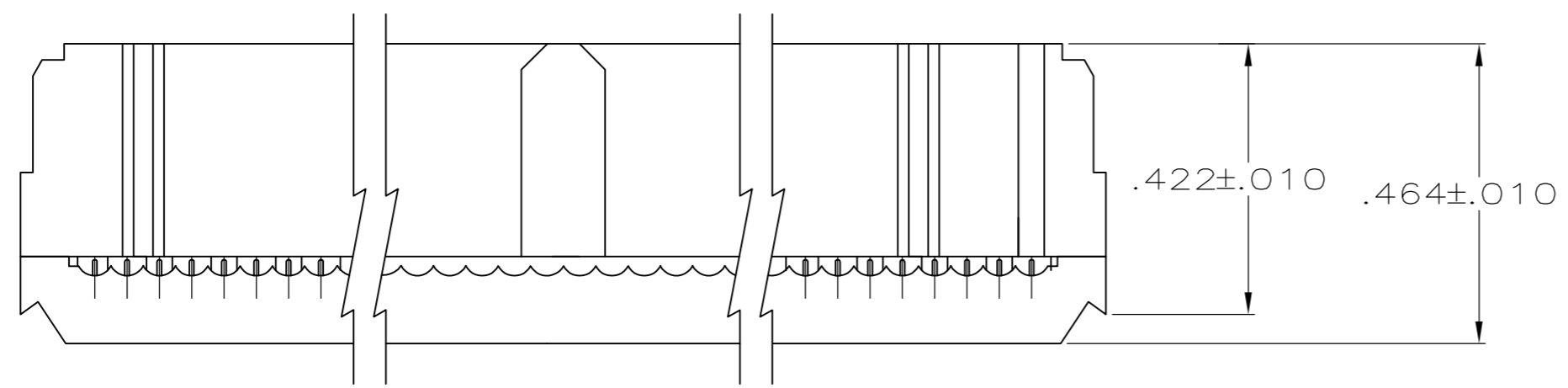
LOCALIZED GOLD PLATING ON THIS SURFACE

.014 MIN LOCALIZED GOLD PLATE AREA 3

.123 MAX    .130 ±.002

TERMINATION END 3
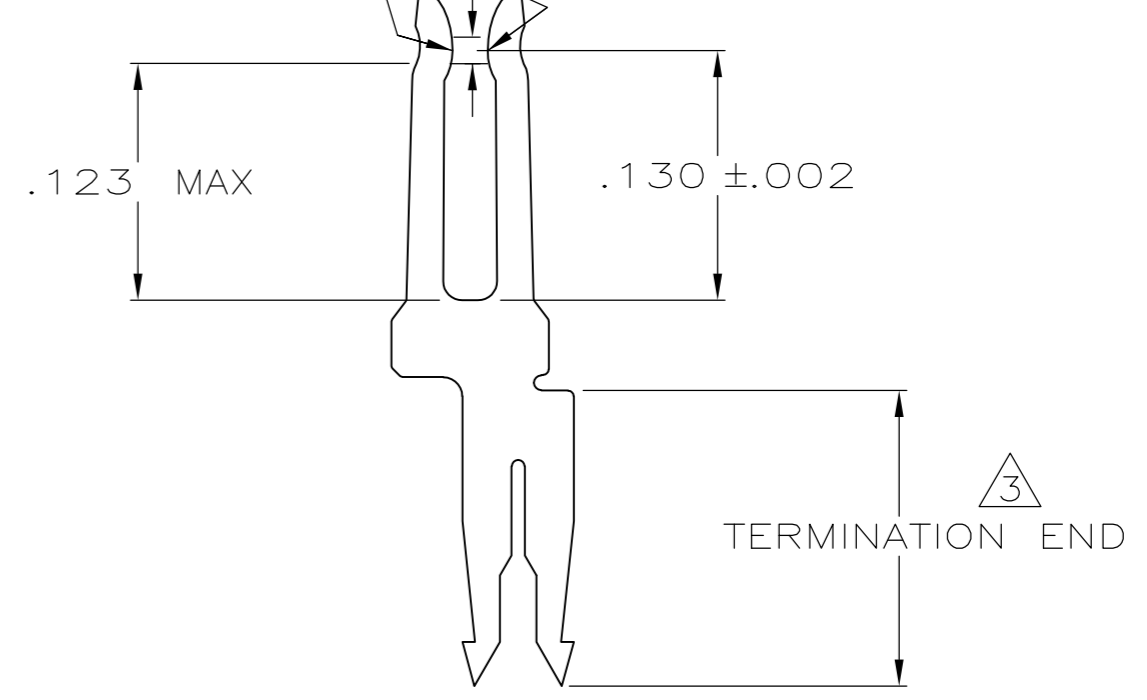
DETAIL Z
SCALE 10:1
TYPICAL

D

.100

.100

.030

30°

.130

E

.030

POSN #1 INDICATOR

SEE DETAIL Z

4

HOUSING

CONTACT

COVER

.329

.093   .135

A SPACES AT .050 STAGGERED SPACING = B REF

C

.295

.629 REF BEFORE TERMINATION

.240

.106

.100

1658622

| E | D | C | B | A | NO OF POSN | PART NUMBER |
|------|-------|-------|-------|----|-----|-----------|
| 1.125 | 2.100 | 2.380 | 2.150 | 43 | 44 | 1-1658622-3 |
| 1.625 | 3.100 | 3.380 | 3.150 | 63 | 64 | 1-1658622-2 |
| 1.525 | 2.900 | 3.180 | 2.950 | 59 | 60 | 1-1658622-1 |
| 1.275 | 2.400 | 2.680 | 2.450 | 49 | 50 | 1-1658622-0 |
| 1.025 | 1.900 | 2.180 | 1.950 | 39 | 40 | 1658622-9 |
| .875 | 1.600 | 1.880 | 1.650 | 33 | 34 | 1658622-8 |
| .775 | 1.400 | 1.680 | 1.450 | 29 | 30 | 1658622-7 |
| .675 | 1.200 | 1.480 | 1.250 | 25 | 26 | 1658622-6 |
| .625 | 1.100 | 1.380 | 1.150 | 23 | 24 | 1658622-5 |
| .525 | .900 | 1.180 | .950 | 19 | 20 | 1658622-4 |
| .425 | .700 | .980 | .750 | 15 | 16 | 1658622-3 |
| .375 | .600 | .880 | .650 | 13 | 14 | 1658622-2 |
| .275 | .400 | .680 | .450 | 9 | 10 | 1658622-1 |

| DIMENSIONS: | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | |
|---|---|---|---|
| INCHES | | | |
| | | 0 PLC | ± – |
| | | 1 PLC | ± – |
| | | 2 PLC | ± – |
| | | 3 PLC | ± .005 |
| | | 4 PLC | ± – |
| | | ANGLES | ± 5° |

DWN   R. SAMICK   22AUG03
CHK   C. RHODE   22AUG03
APVD   M. WALMSLEY   22AUG03

PRODUCT SPEC
108-40000

APPLICATION SPEC
114-40005

MATERIAL   SEE NOTES
FINISH   SEE NOTES
WEIGHT   –

TE Connectivity

NAME
RECEPTACLE ASSY,
CENTER & MILITARY POLARIZATION
LEAD FREE AMP-LATCH™ NOVO

SIZE A2   CAGE CODE 00779   DRAWING NO C-1658622   RESTRICTED TO –

CUSTOMER DRAWING

SCALE 4:1   SHEET 1 OF 1   REV B1