66504-8 Product Details

66504-8

TE Internal Number: 66504-8

✔ Active

Standard Cable Connectors

🌿 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Contact
- Product Series = HDP-20 (Crimp Snap)
- Contact Type = Socket
- Phosphor Bronze Contact Base Material
- Crimp Termination Method to Wire/Cable

Documentation & Additional Information

Product Drawings:
- SOCKET CONTACT, SIZE 20 DF, 20-24 AWG, AMPLIMITE (1) (PDF, English)
- SOCKET CONTACT, SIZE 20 DF, 20-24 AWG, AMPLIMITE (2) (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- AMPLIMITE HDP-20 Subminiature D Connector With F Cri... (PDF, English)

Application Specifications:
- HD-20 Precision Formed Contacts (PDF, English)
- AMPLIMITE HDP-20 and Economy Crimp Snap Subminiature... (PDF, English)

Instruction Sheets:
- AMPLIMITE High Density (HDP-20) Connectors with Crim... (PDF, English)
- PRO-CRIMPER III Hand Crimping Tool Assembly 58448-2 ... (PDF, English)
- Insertion/Extraction Tool 91285-1 and Replacement Ti... (PDF, English)

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

Additional Information:
- Product Line Information

Related Products:
- Tooling

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

Product Type Features:
- Product Type = Contact
- Product Series = HDP-20 (Crimp Snap)
- Termination Method to Wire/Cable = Crimp
- Wire Insulation Diameter (mm [in]) = 1.27 – 1.52 [0.050 – 0.060]
- Insulation Support = Yes
- Grade = Standard

Mechanical Attachment:
- Contact Retention in Housing = Crimp Snap-In

Body Features:
- Wire Range (mm² [AWG]) = 0.2 - 0.6 [24-20]
- Used With = CPC Connectors

Contact Features:
- Contact Type = Socket
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold (50)
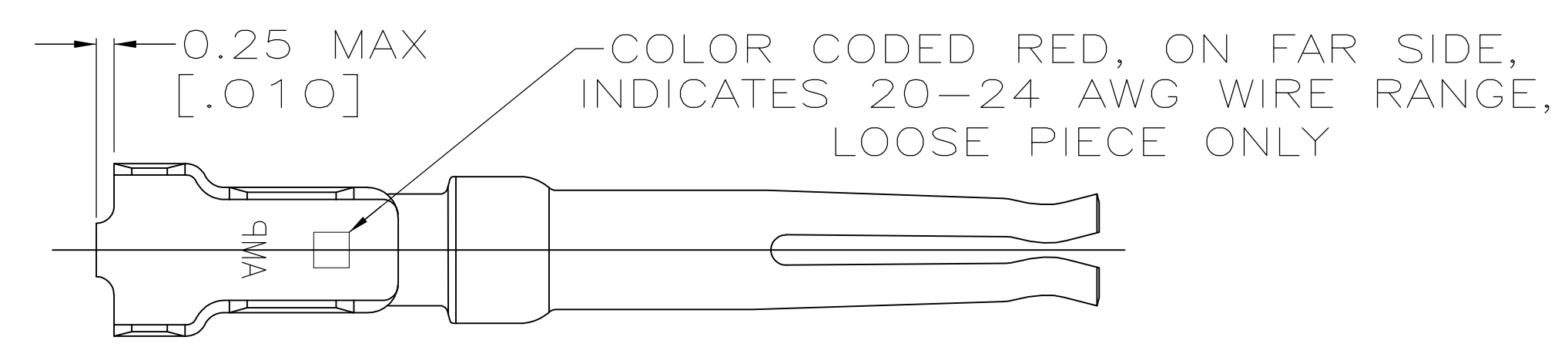- Contact Size = 20

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

Packaging Features:
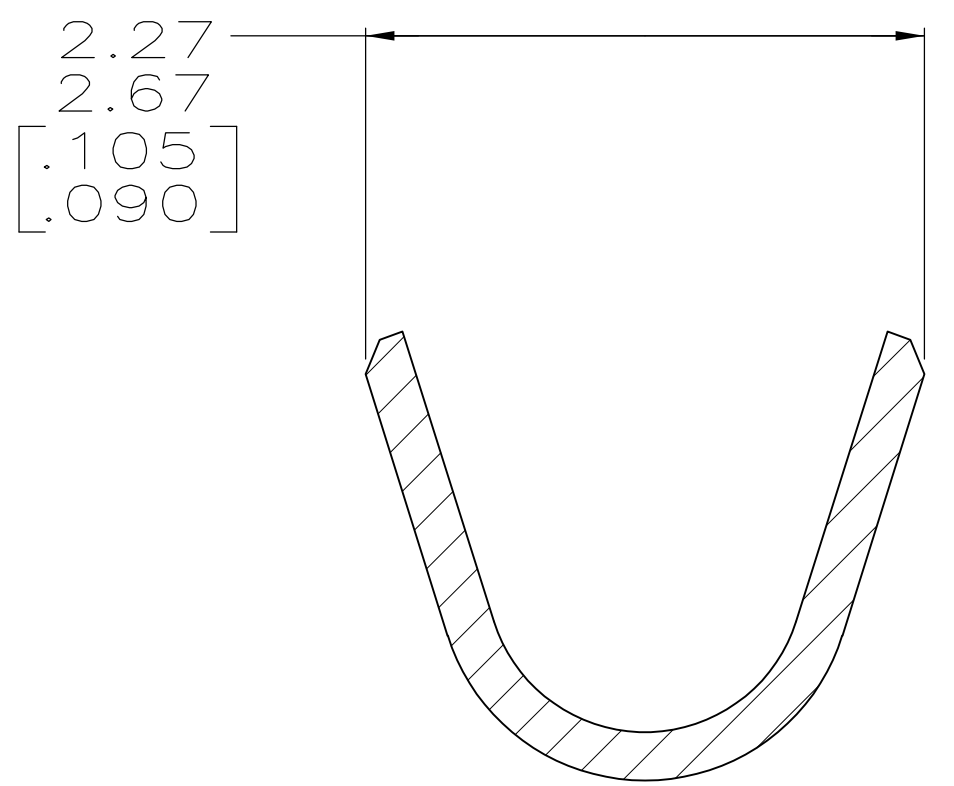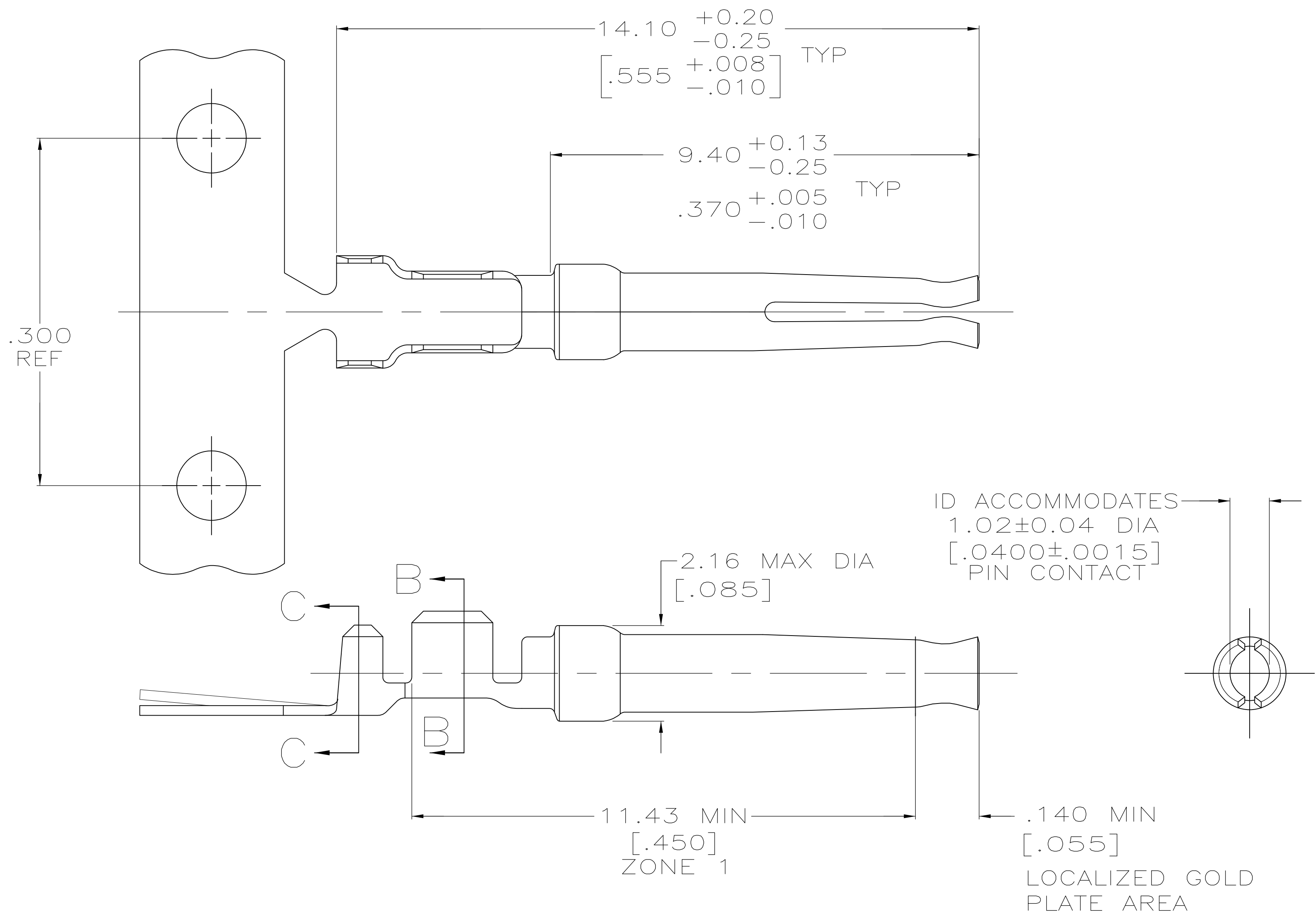- Packaging Method = Loose Piece/Bulk
- Packaging Quantity = 1,000 Box/Carton

Other:
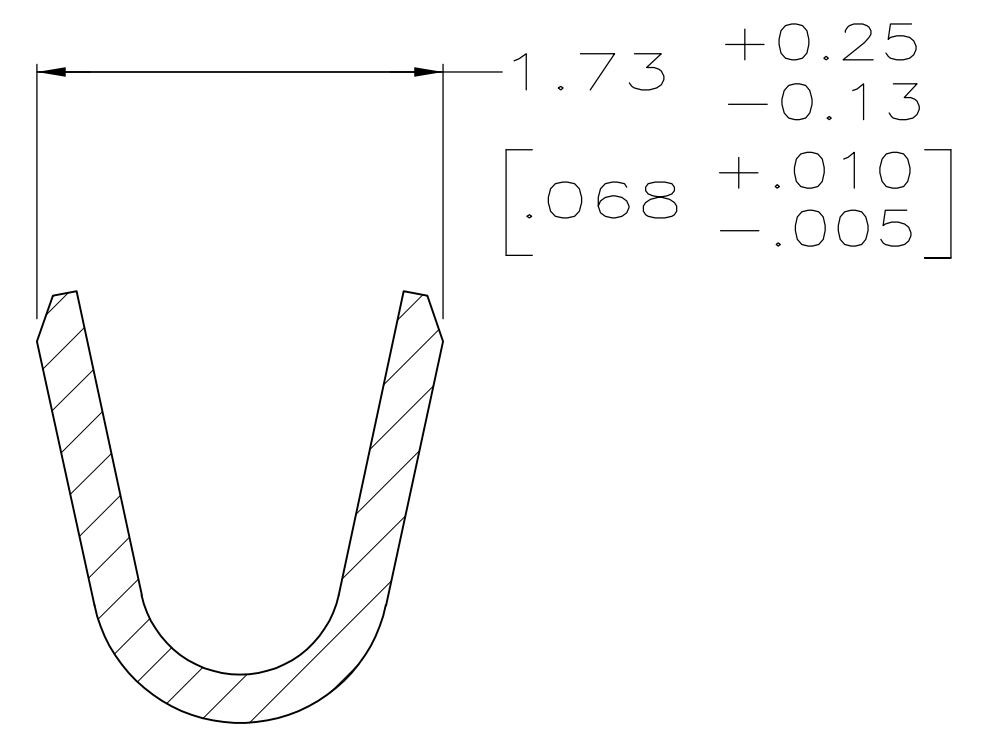- Brand = AMP

LOC GP DIST 00 REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	AP	REVISED PER ECO-12-021696	01MAR2013	CJV	CWR

0.25 MAX [.010]

COLOR CODED RED, ON FAR SIDE, INDICATES 20-24 AWG WIRE RANGE, LOOSE PIECE ONLY

DETAIL Z
SCALE 8:1

14.10 +0.20 −0.25 TYP
[.555 +.008 −.010]

9.40 +0.13 −0.25 TYP
.370 +.005 −.010

.300 REF

ID ACCOMMODATES 1.02±0.04 DIA [.0400±.0015] PIN CONTACT

2.16 MAX DIA [.085]

.140 MIN [.055]
LOCALIZED GOLD PLATE AREA

11.43 MIN [.450] ZONE 1

2.27 2.67 [.105] [.090]

1.73 +0.25 −0.13 [.068 +.010 −.005]

SECTION C-C
SCALE 20:1
INSULATION BARREL

SECTION B-B
SCALE 20:1
WIRE BARREL

1. FOR MINI-APPLICATOR AND STRIPPER CRIMPER.

2. FOR HAND TOOL USE ONLY.

3. FOR STANDARD APPLICATOR PART #566171 ONLY.

4. WIRE RANGE OF 20-24 AWG. INSULATION RANGE OF 1.27/1.52 [.050-.060].

5. GOLD PLATING MAY NOT APPEAR ON CARRIER STRIP. NICKEL UNDERPLATE COVERS ENTIRE CONTACT.

6. GOLD PLATING PER MIL-G-45204, NICKEL PLATING PER QQ-N-290, TIN PLATING PER MIL-T-10727, COPPER PLATING PER MIL-C-14550.

7. PLATED WITH 1.27μm [.000050] GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, 1.27μm [.000050] GOLD ON ZONE 1, ALL OVER 1.27μm [.000050] NICKEL UNDERPLATE.

8. PLATED WITH 0.76μm [.000030] GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER 1.27μm [.000050] NICKEL UNDERPLATE.
−OR−
GOLD FLASH OVER PALLADIUM-NICKEL 0.76μm [.000030] TOTAL ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER 1.27μm [.000050] NICKEL UNDERPLATE.

9. GOLD FLASH ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER 0.76μm [.000030] NICKEL UNDERPLATE.

10. PLATED WITH 2.54μm − 5.08μm [.000100 − .000200] TIN.

11. PLATED WITH 0.38μm [.000015] GOLD IN LOCALIZED GOLD PLATE AREA, GOLD FLASH ON REMAINDER, OVER 1.27μm [.000050] NICKEL.

12. PLATED WITH GOLD FLASH IN LOCALIZED GOLD PLATE AREA, 2.54μm [.000100] TIN PLATED WIRE BARRELS, OVER 0.76μm [.000030] NICKEL.

13. PLATED WITH 0.76μm [.000030] GOLD IN LOCALIZED GOLD PLATE AREA, TIN PLATED WIRE BARRELS, OVER 1.27μm [.000050] NICKEL.

14. AMP ITALY PART NUMBER ONLY.

15. PLATED WITH 1.27μm [.000050] GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER 1.27μm [.000050] NICKEL UNDERPLATE.

16. PLATED WITH GOLD FLASH IN LOCALIZED GOLD PLATE AREA, 0.76μm [.000030] MIN TIN PLATED WIRE BARRELS, OVER 0.76μm [.000030] MIN NICKEL.

PACKAGING TYPE	FINISH	USE	LOOSE PIECE	PART NUMBER
OBSOLETE	SPECIAL	13	1	−	7-66504-4
OBSOLETE	SPECIAL	13	1	−	7-66504-3
OBSOLETE	STANDARD	16	1	−	7-66504-2
OBSOLETE	STANDARD	13	3	−	7-66504-1
	SMALL PACK	8	2	SEE DETAIL Z	7-66504-0
	STANDARD	15	1	−	6-66504-8
OBSOLETE	STANDARD	13	2	SEE DETAIL Z	6-66504-0
OBSOLETE	STANDARD	13	1	−	5-66504-9
OBSOLETE	STANDARD	12	2	SEE DETAIL Z	5-66504-7
OBSOLETE	STANDARD	12	1	−	5-66504-6
OBSOLETE	STANDARD	10	1	−	1-66504-4
	STANDARD	8	3	−	1-66504-2
	STANDARD	9	2	SEE DETAIL Z	1-66504-0
	STANDARD	8	2	SEE DETAIL Z	66504-9
	STANDARD	7	2	SEE DETAIL Z	66504-8
	STANDARD	9	1	−	66504-4
	STANDARD	8	1	−	66504-3
	STANDARD	7	1	−	66504-2

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009

DIMENSIONS: mm [INCHES]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± −
1 PLC ± −
2 PLC ± 0.13 [.005]
3 PLC ± −
4 PLC ± −
ANGLES ± −

DWN C. RICHARD 3-19-90
CHK W. G. LENKER 3-22-90
APVD J. ASSINI 3-28-90

PRODUCT SPEC −
APPLICATION SPEC −
WEIGHT −

MATERIAL PHOSPHOR BRONZE PER QQ-B-750
FINISH SEE TABLE

TE Connectivity

NAME SOCKET CONTACT, SIZE 20 DF, 20-24 AWG, AMPLIMITE

SIZE A1 CAGE CODE 00779 DRAWING NO C-66504

SCALE 15:1 SHEET 1 OF 1 REV AP

CUSTOMER DRAWING

4805 (3/11)