

66504-4 Product Details



66504-4

TE Internal Number: 66504-4



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](#) (PDF, English)

Catalog Pages/Data Sheets:

- [Signal Contacts](#) (PDF, English)
- [AMP Circular Connectors for Commercial Signal & Powe...](#) (PDF, English)
- [AMPLIMITE Subminiature D Connectors - Cable Connectors](#) (PDF, English)
- [HTS Heavy Duty Connectors catalogue](#) (PDF, English)

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 = AMPLIMITE HDP-20, CPC Connectors

Contact Features:

- Contact Type = Socket
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold Flash
- 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

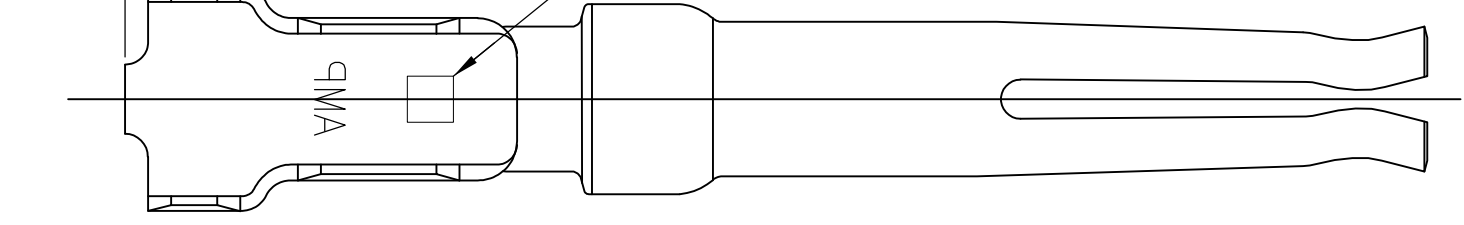
Packaging Features:

- Packaging Method = Strip

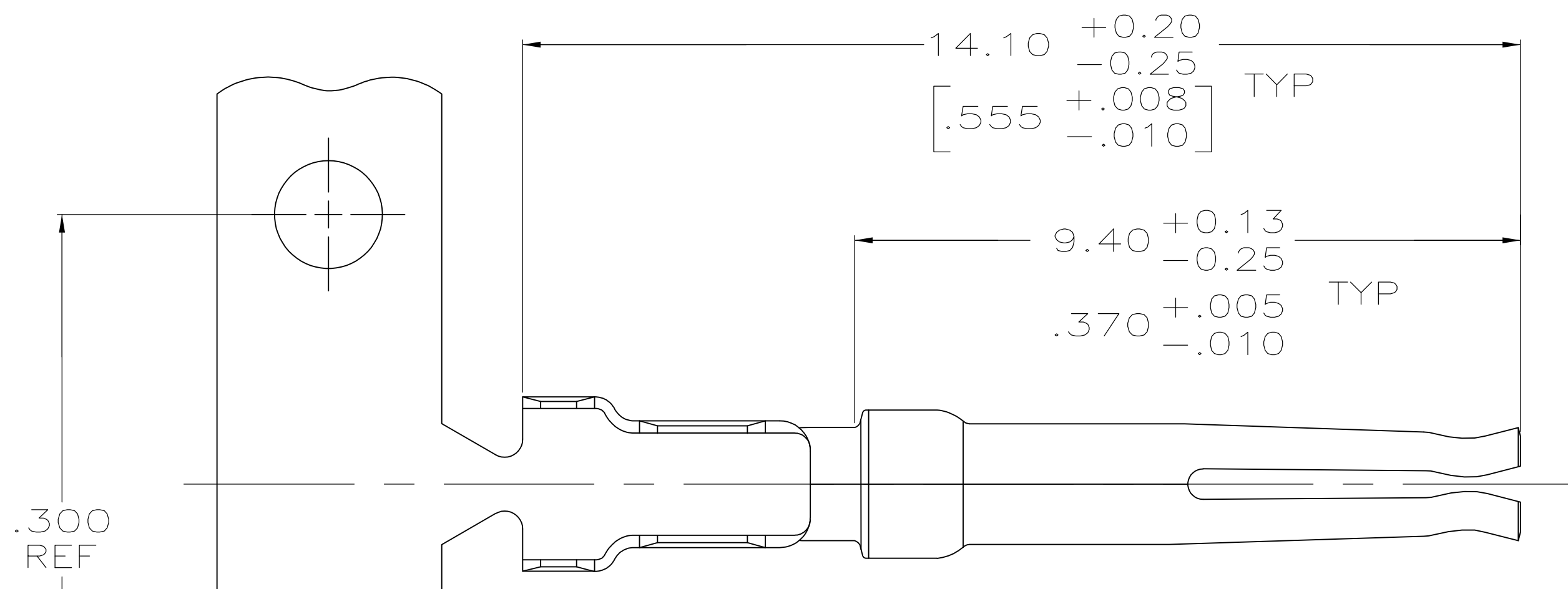
Other:

- Brand = AMP

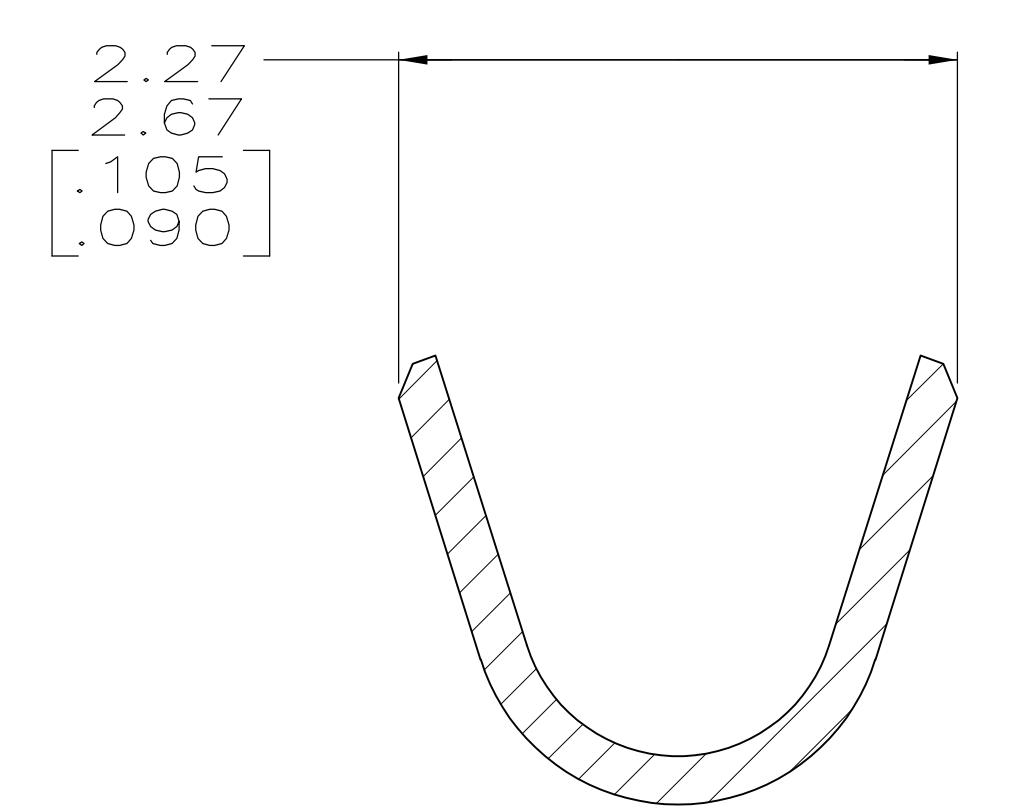
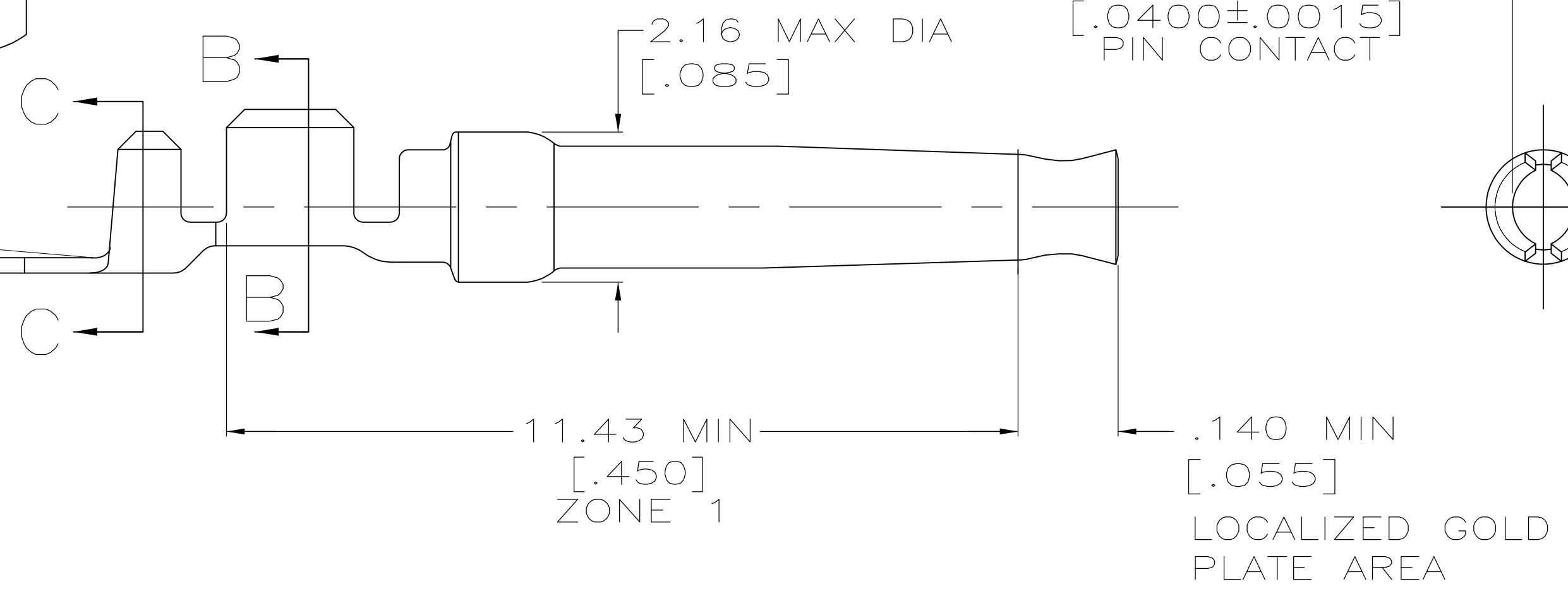
0.25 MAX
[.010]
COLOR CODED RED, ON FAR SIDE, INDICATES 20-24 AWG WIRE RANGE, LOOSE PIECE ONLY



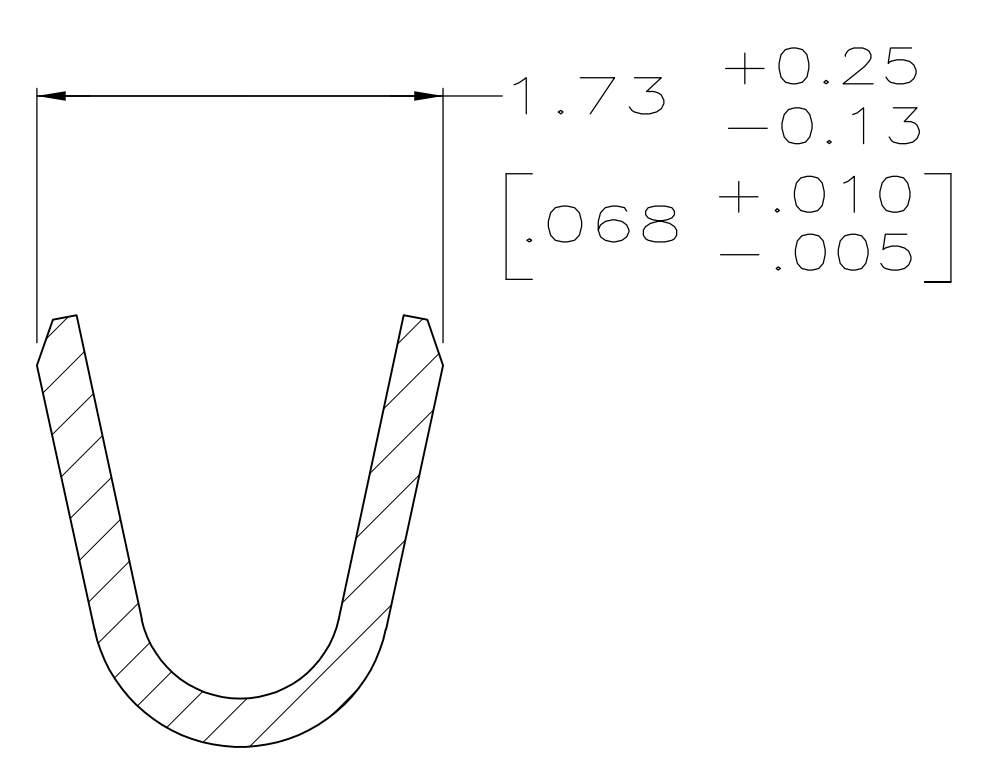
DETAIL Z
SCALE 8:1



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



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.

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
PACKAGING TYPE	FINISH	USE	LOOSE PIECE	PART NUMBER	

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

DIMENSIONS: mm [INCHES]	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DIN C. RICHARD 3-19-90	STE
0 PLC ± -	1 PLC ± -	CHK: W. G. LENKER 3-22-90	TE Connectivity
2 PLC ± 0.13 [.005]	3 PLC ± -	APVD: J. ASSINI 3-28-90	NAME: SOCKET CONTACT, SIZE 20 DF, 20-24 AWG, AMPLIMITE
4 PLC ± -	ANGLES ± -	APPLICATION SPEC	SIZE: A1
MATERIAL: PHOSPHOR BRONZE PER QQ-B-750	FINISH: SEE TABLE	WEIGHT: -	CAGE CODE: 00779
		DRAWING NO: 66504	RESTRICTED TO: -
		CUSTOMER DRAWING	SCALE: 15:1 SHEET: 1 OF 1 REV: AP