66506-3 Product Details

66506-3

TE Internal Number: 66506-3

Active

Standard Cable Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

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

Documentation & Additional Information

Product Drawings:
- PIN 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:
- Connector, AMPLIMITE* 2000, PCB Mounted, Nonremovabl... (PDF, English)
- 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 CE)
- 3D Model (IGES, Version CE)
- 3D Model (STEP, Version CE)

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

Dimensions:
- Pin Diameter (mm [in]) = 1.02 [0.040]

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

Contact Features:
- Contact Type = Pin
- Contact Base Material = Brass
- Contact Plating, Mating Area, Material = Gold Flash over Palladium Nickel or Gold (30) over Nickel
- 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

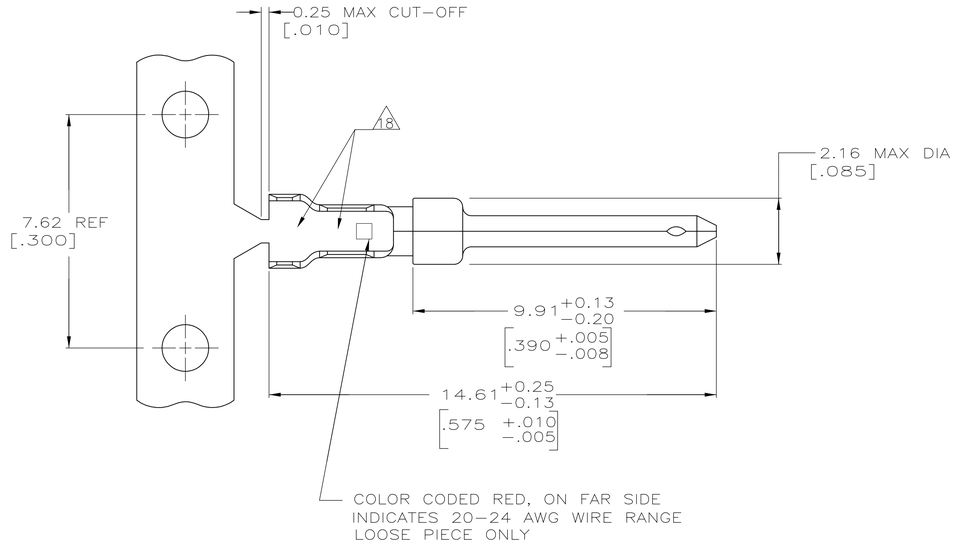
Packaging Features:
- Packaging Method = Strip

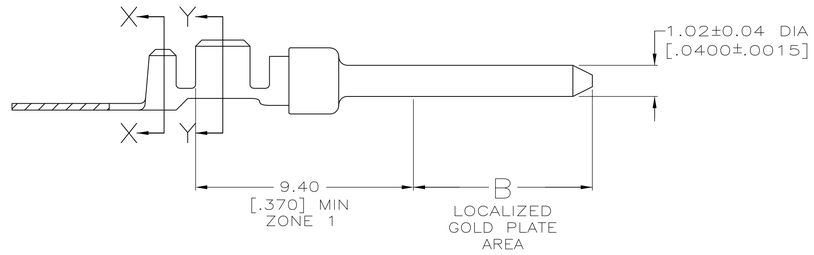
Other:
- Brand = AMP

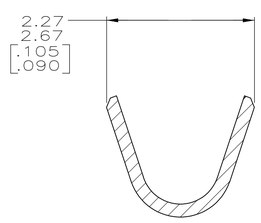
LOC	DIST
GP	00

REVISIONS

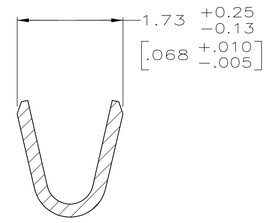
P	LTR	DESCRIPTION	DATE	DWN	APVD
	AT	REVISED PER ECO-12-021696	01MAR2013	CJV	CWR







SECTION X-X
INSULATION BARREL
SCALE 20:1



SECTION Y-Y
WIRE BARREL
SCALE 20:1

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, 1.27|m [.000050] MIN GOLD ON LOCALIZED GOLD PLATE AREA AND ZONE 1 OVER 1.27|m [.000050] MIN NICKEL.
8. GOLD PLATED IN LOCALIZED GOLD PLATE AREA AS FOLLOWS:
   0.76µm [.000030] MIN GOLD IN MATED AREA, GOLD FLASH ON REMAINDER OF LOCALIZED GOLD PLATE AREA AND ZONE 1 OF CONTACT, ALL OVER 1.27µm [.000050] MIN NICKEL UNDERPLATE.
   OR
   GOLD FLASH OVER PALLADIUM-NICKEL PLATE, 0.76µm [.000030] MIN TOTAL IN MATED AREA, GOLD FLASH ON REMAINDER OF LOCALIZED GOLD PLATE AREA AND ZONE 1 OF CONTACT, ALL OVER 1.27µm [.000050] MIN NICKEL UNDERPLATE.
9. PLATED WITH GOLD FLASH ON LOCALIZED GOLD PLATE AREA AND ZONE 1 OVER 0.76|m [.000030] MIN NICKEL.
10. PLATED WITH 2.54|m - 5.08|m [.000100 - .000200] TIN.
11. GOLD PLATED IN LOCALIZED GOLD PLATED AREA, 0.76|m [.000030] GOLD IN MATED AREA, TIN PLATED WIRE BARRELS, OVER 1.27|m [.000050] NICKEL.
12. PLATED WITH GOLD FLASH IN LOCALIZED GOLD PLATE AREA, TIN PLATED WIRE BARRELS, OVER 0.76|m [.000030] NICKEL.
13. GOLD PLATED IN LOCALIZED GOLD PLATE AREA, 0.38|m [.000015] GOLD IN MATED AREA, GOLD FLASH ON REMAINDER, OVER 1.27|m [.000050] NICKEL.
14. AMP ITALY PART NUMBER ONLY.
15. GOLD PLATED IN LOCALIZED GOLD PLATE AREA, 1.27|m [.000050] GOLD IN MATED AREA, GOLD FLASH ON REMAINDER, OVER 1.27|m [.000050] NICKEL.
16. GOLD PLATED IN LOCALIZED GOLD PLATE AREA, 0.03|m [.000001] GOLD IN MATED AREA, 0.76|m [.000030] MIN TIN PLATED WIRE BARRELS, ALL OVER 0.76|m [.000030] MIN NICKEL.
17. GOLD FLASH IN LOCALIZED GOLD PLATE AREA, 2.54|m[.000100] MIN TIN OR TIN-LEAD PLATED WIRE BARRELS, ALL OVER 0.76|m[.000030] MIN NICKEL.
18. COMPANY LOGO ON BOTTOM OF EITHER WIRE OR INSULATION BARRELS.

PACKAGING TYPE	B	FINISH	USE	TYPE	PART NUMBER
SUPERSEDED BY 2-66506-5	STANDARD	5.84 [.230]	17	1	STRIP	6-66506-4
OBSOLETE	STANDARD	3.94 [.155]	11	3	STRIP	6-66506-3
OBSOLETE	STANDARD	3.94 [.155]	16	1	STRIP	6-66506-2
	SMALL PACK	3.94 [.155]	8	2	LOOSE PIECE	6-66506-1
OBSOLETE	STANDARD	3.94 [.155]	15	1	STRIP	6-66506-0
OBSOLETE	STANDARD	3.94 [.155]	12	2	LOOSE PIECE	5-66506-9
OBSOLETE	STANDARD	3.94 [.155]	11	2	LOOSE PIECE	5-66506-7
OBSOLETE	STANDARD	3.94 [.155]	12	1	STRIP	2-66506-5
OBSOLETE	STANDARD	3.94 [.155]	11	1	STRIP	2-66506-4
OBSOLETE	STANDARD	-	10	1	STRIP	1-66506-4
OBSOLETE	STANDARD	-	2	3	STRIP	1-66506-1
	STANDARD	-	9	2	LOOSE PIECE	1-66506-0
	STANDARD	3.94 [.155]	8	2	LOOSE PIECE	66506-9
	STANDARD	-	7	2	LOOSE PIECE	66506-8
	STANDARD	-	9	1	STRIP	66506-4
	STANDARD	3.94 [.155]	8	1	STRIP	66506-3
	STANDARD	-	7	1	STRIP	66506-2

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 ± -

MATERIAL: BRASS
FINISH: 6

DWN	S. WELDON	9-9-86
CHK	C. RICHARD	9-9-86
APVD	V. KUMAR	9-10-86
PRODUCT SPEC	-	
APPLICATION SPEC	114-10000	
WEIGHT	-	

TE Connectivity

NAME: PIN CONTACT, SIZE 20 DF, 20-24 AWG, AMPLIMITE -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-66506	-

CUSTOMER DRAWING | SCALE 10:1 | SHEET 1 OF 1 | REV AT