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## 66505-9 Product Details

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**66505-9**

TE Internal Number: 66505-9

Active

[View 3D PDF](#)

### 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

[View all Features](#)

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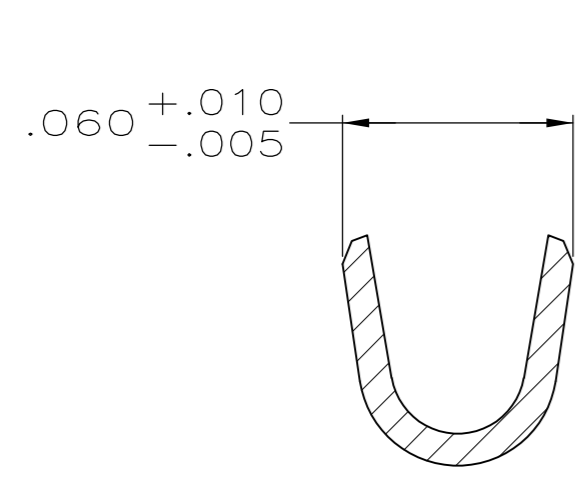
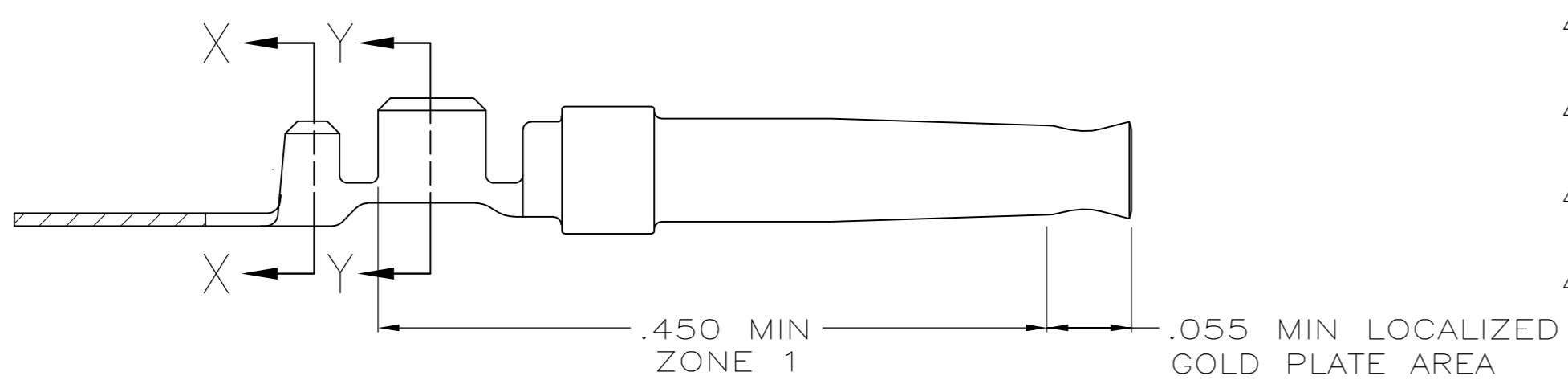
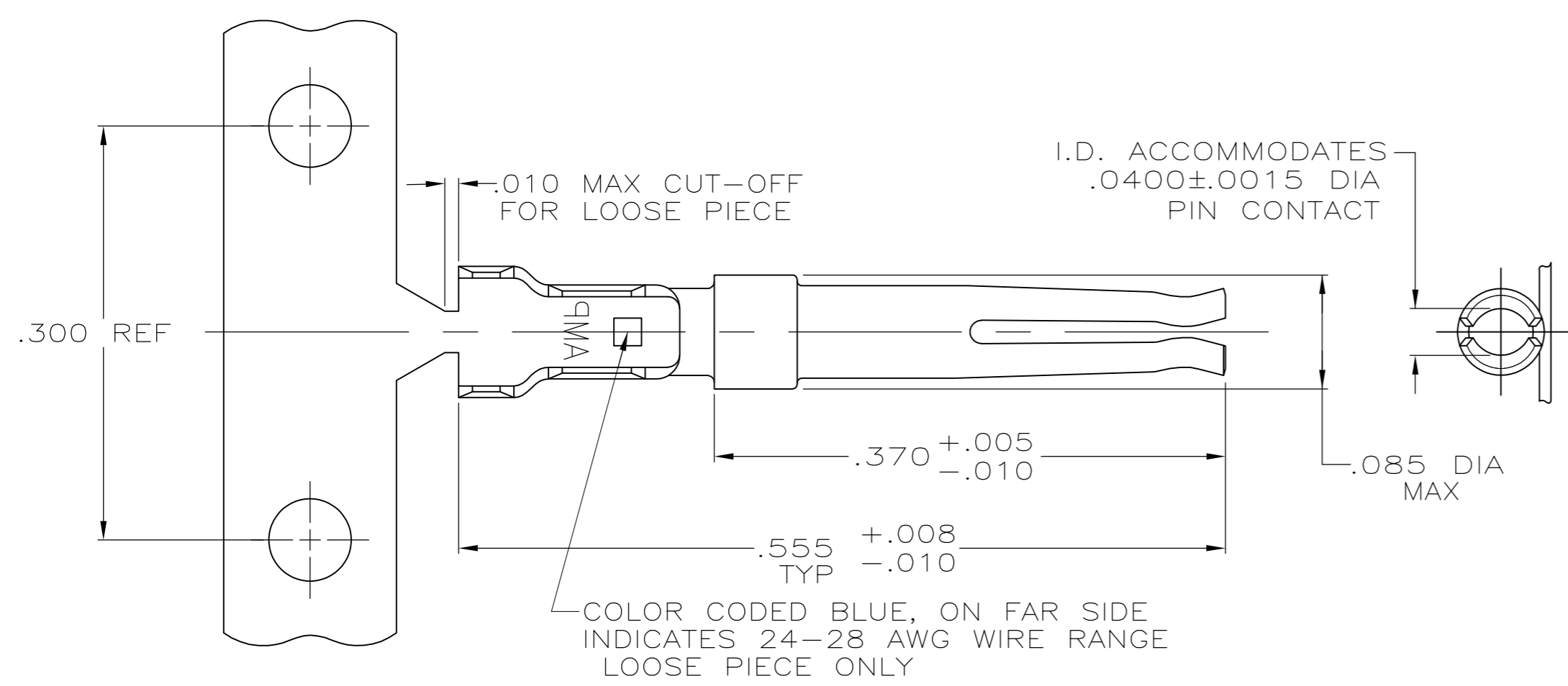
Documentation & Additional Information	
<p><b>Product Drawings:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">SOCKET CONTACT, SIZE 20 DF, 24-28 AWG, W/ .030-.040 ... (PDF, English)</a></li> </ul> <p><b>Catalog Pages/Data Sheets:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Signal Contacts (PDF, English)</a></li> <li>• <a href="#">AMP Circular Connectors for Commercial Signal &amp; Powe... (PDF, English)</a></li> <li>• <a href="#">AMPLIMITE Subminiature D Connectors - Cable Connectors (PDF, English)</a></li> <li>• <a href="#">HTS Heavy Duty Connectors catalogue (PDF, English)</a></li> </ul> <p><b>Product Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">AMPLIMITE HDP-20 Subminiature D Connector With F Cri... (PDF, English)</a></li> </ul> <p><b>Application Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">HD-20 Precision Formed Contacts (PDF, English)</a></li> <li>• <a href="#">AMPLIMITE HDP-20 and Economy Crimp Snap Subminiature... (PDF, English)</a></li> </ul> <p><b>Instruction Sheets:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">AMPLIMITE High Density (HDP-20) Connectors with Crim... (PDF, English)</a></li> <li>• <a href="#">PRO-CRIMPER III Hand Crimping Tool Assembly 58448-2 ... (PDF, English)</a></li> <li>• <a href="#">Insertion/Extraction Tool 91285-1 and Replacement Ti... (PDF, English)</a></li> </ul> <p><b>CAD Files:</b> (CAD Format &amp; Compression Information)</p> <ul style="list-style-type: none"> <li>• <a href="#">2D Drawing (DXF, Version CP)</a></li> <li>• <a href="#">3D Model (IGES, Version CP)</a></li> <li>• <a href="#">3D Model (STEP, Version CP)</a></li> </ul>	<p><b>Additional Information:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Product Line Information</a></li> </ul> <p><b>Related Products:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Tooling</a></li> </ul>

[List all Documents](#)

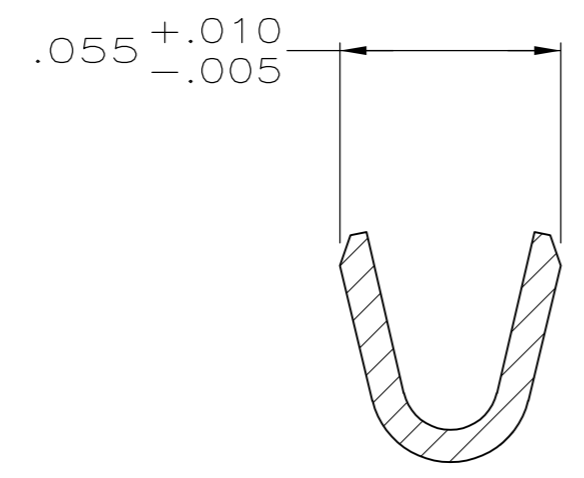
Product Features (Please use the Product Drawing for all design activity)	
<p><b>Product Type Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Product Type</b> = Contact</li> <li>• <b>Product Series</b> = HDP-20 (Crimp Snap)</li> <li>• <b>Termination Method to Wire/Cable</b> = Crimp</li> <li>• <b>Wire Insulation Diameter (mm [in])</b> = 0.76 - 1.02 [0.030 - 0.040]</li> <li>• <b>Insulation Support</b> = Yes</li> <li>• <b>Grade</b> = Standard</li> </ul> <p><b>Mechanical Attachment:</b></p> <ul style="list-style-type: none"> <li>• <b>Contact Retention in Housing</b> = Crimp Snap-In</li> </ul> <p><b>Body Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Wire Range (mm<sup>2</sup> [AWG])</b> = 0.08 - 0.20 [28-24]</li> <li>• <b>Used With</b> = AMPLIMITE HDP-20, CPC Connectors</li> </ul>	<p><b>Contact Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Contact Type</b> = Socket</li> <li>• <b>Contact Base Material</b> = Phosphor Bronze</li> <li>• <b>Contact Plating, Mating Area, Material</b> = Gold Flash over Palladium Nickel or Gold (30) over Nickel</li> <li>• <b>Contact Size</b> = 20</li> </ul> <p><b>Industry Standards:</b></p> <ul style="list-style-type: none"> <li>• <b>RoHS/ELV Compliance</b> = RoHS compliant, ELV compliant</li> <li>• <b>Lead Free Solder Processes</b> = Not relevant for lead free process</li> <li>• <b>RoHS/ELV Compliance History</b> = Always was RoHS compliant</li> </ul> <p><b>Packaging Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Packaging Method</b> = Loose Piece/Bulk</li> </ul> <p><b>Other:</b></p> <ul style="list-style-type: none"> <li>• <b>Brand</b> = AMP</li> </ul>

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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD		
GP	00	AS	REVISED PER ECO-12-021696	01MAR2013	CJV	CWR	



SECTION X-X  
SCALE 20:1



SECTION Y-Y  
SCALE 20:1

- 1 FOR MINI-APPLICATOR AND STRIPPER CRIMPER.
- 2 FOR HAND TOOL USE ONLY.
- 3 FOR STANDARD APPLICATOR PART #566184 ONLY.
- 4. WIRE RANGE OF 24-28, INSULATION RANGE OF .030-.040.
- 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 .000050 GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, .000050 GOLD ON ZONE 1, ALL OVER .000050 NICKEL UNDERPLATE.
- 8 PLATED WITH .000030 GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER .000050 NICKEL UNDERPLATE.  
OR  
GOLD FLASH OVER PALLADIUM-NICKEL, .000030 TOTAL ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER .000050 NICKEL UNDERPLATE.
- 9 GOLD FLASH ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER .000030 NICKEL UNDERPLATE.
- 10 PLATED WITH .000100-.000200 TIN.
- 11 PLATED WITH .000050 GOLD ON INSIDE OF LOCALIZED GOLD PLATE AREA, GOLD FLASH ON ZONE 1, ALL OVER .000050 NICKEL UNDERPLATE.
- 12 PLATED WITH .000015 GOLD IN LOCALIZED GOLD PLATE AREA, GOLD FLASH ON REMAINDER, OVER .000050 NICKEL.
- 13 PLATED WITH GOLD FLASH IN LOCALIZED GOLD PLATE AREA, TIN PLATED WIRE BARRELS, OVER .000030 NICKEL.
- 14 PLATED WITH .000030 GOLD IN LOCALIZED GOLD PLATE AREA, TIN PLATED WIRE BARRELS, OVER .000050 NICKEL.
- 15 AMP ITALY PART NUMBER ONLY.

OBSELETE	STANDARD	FINISH	USE	TYPE	PART NUMBER
	STANDARD	13	3	STRIP	7-66505-0
	SMALL PACK	8	2	LOOSE PIECE	6-66505-9
SUPERSEDED BY 66505-9	STANDARD	14	2	LOOSE PIECE	6-66505-2
OBSELETE	STANDARD	14	1	STRIP	6-66505-0
OBSELETE	STANDARD	13	2	LOOSE PIECE	5-66505-9
OBSELETE	STANDARD	13	1	STRIP	5-66505-7
OBSELETE	STANDARD	12	1	STRIP	5-66505-5
SUPERSEDED BY 5-66505-7	STANDARD	11	1	STRIP	2-66505-7
	STANDARD	10	1	STRIP	1-66505-4
	STANDARD	9	3	STRIP	1-66505-3
OBSELETE	STANDARD	8	3	STRIP	1-66505-2
	STANDARD	9	2	LOOSE PIECE	1-66505-0
	STANDARD	8	2	LOOSE PIECE	66505-9
	STANDARD	7	2	LOOSE PIECE	66505-8
	STANDARD	9	1	STRIP	66505-4
	STANDARD	8	1	STRIP	66505-3
	STANDARD	7	1	STRIP	66505-2
	PACKAGING TYPE				

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

DWN C.RICHARD 1-6-87  
 CHK S.WELDON 1-7-87

TE Connectivity

SOCKET CONTACT, SIZE 20 DF, 24-28 AWG, W/ .030-.040 DIA INSULATION SUPPORT,

114-10000

PHOSPHOR BRONZE

FINISH SEE TABLE

SCALE 10:1 SHEET 1 OF 1 REV AS