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1-745496-7 Product Details

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1-745496-7

TE Internal Number: 1-745496-7

Active

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Standard Cable Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Connector
- Product Series = HDE-20 (IDC)
- 25 Positions
- Without Enclosure
- Connector Style = Plug

[View all Features](#)

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Documentation & Additional Information

Product Drawings:

- [PLUG ASSY, METAL SHELL, SIZE 3, 25 POSN, SERIES HDE-...](#) (PDF, English)

Catalog Pages/Data Sheets:

- [AMPLIMITE Subminiature D Connectors - Cable Connectors](#) (PDF, English)

Product Specifications:

- [AMPLIMITE HDE-20 Insulation Displacement Connector](#) (PDF, English)

Application Specifications:

- [AMPLIMITE HDE-20 IDC Connectors](#) (PDF, English)

Instruction Sheets:

- [AMPLIMITE High Den. \(HDE-20\) Insulation Displacement...](#) (PDF, English)

CAD Files: (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version T)
- [3D Model](#) (IGES, Version T)
- [3D Model](#) (STEP, Version T)

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)
- [Mating Products \(91\)](#)

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

Product Type Features:

- **Product Type** = Connector
- **Product Series** = HDE-20 (IDC)
- **Wire/Cable Type** = Discrete Wire, Round Jacketed Cable
- **Termination Method to Wire/Cable** = Insulation Displacement Crimp (IDC)
- **Wire Insulation Diameter (mm [in])** = 1.52 [0.060]
- **Mating Connector Lock** = With
- **Mating Connector Lock Type** = Mounting Holes
- **Shell Size** = 3
- **Shell Type** = Full Metal Shell
- **Grounding Indents** = With
- **Grade** = Standard
- **Color** = Black
- **Shell Material** = Steel

Termination Features:

- **Solder Tail Contact Plating** = Matte Tin over Nickel

Body Features:

- **Wire Range (mm² [AWG])** = 0.15 - 0.40 [26-22]
- **Shell Plating** = Tin
- **Insert Material** = Thermoplastic

Contact Features:

- **Contact Type** = Pin
- **Contact Base Material** = Phosphor Bronze
- **Contact Plating, Mating Area, Material** = Gold Flash over Palladium Nickel or Gold (30) over Nickel
- **Contact Size** = 20

Housing Features:

- **Enclosure** = Without
- **Connector Style** = Plug

Configuration Features:

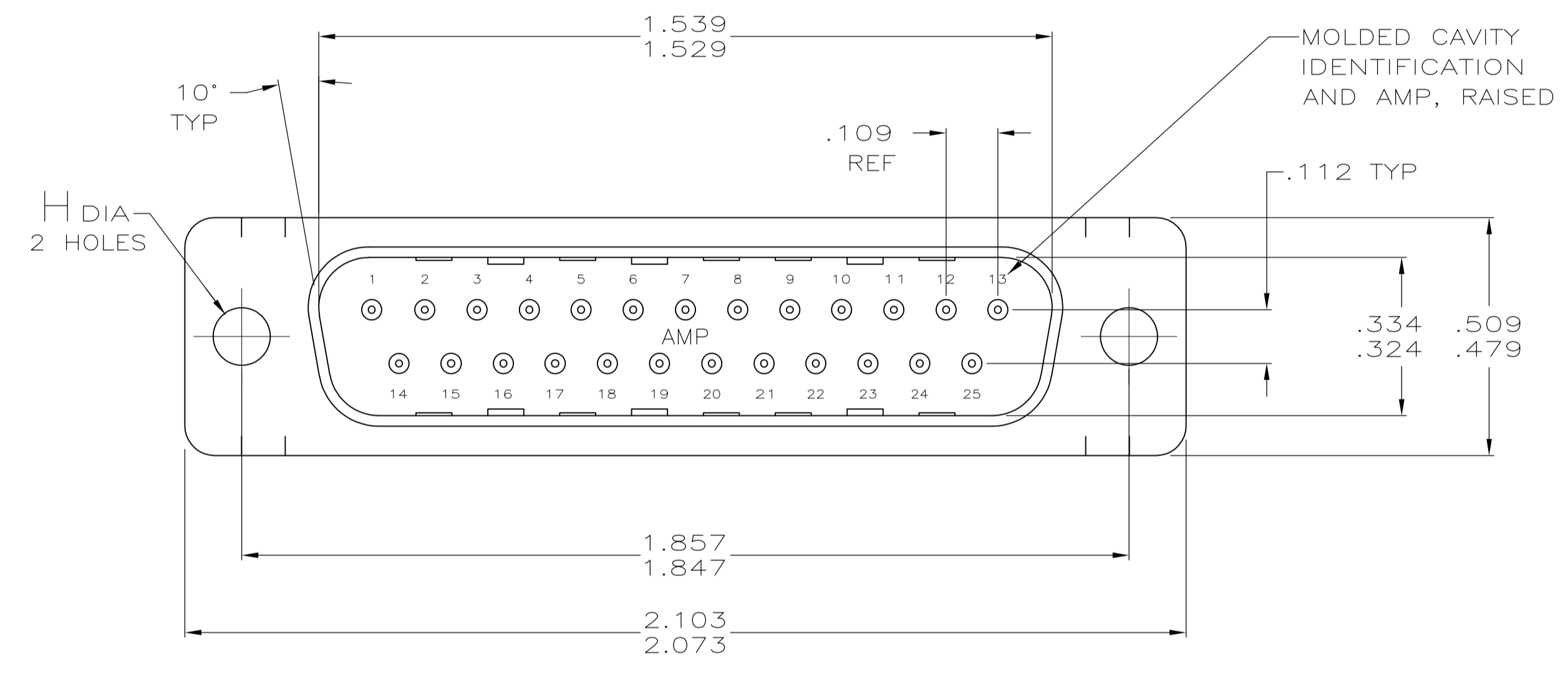
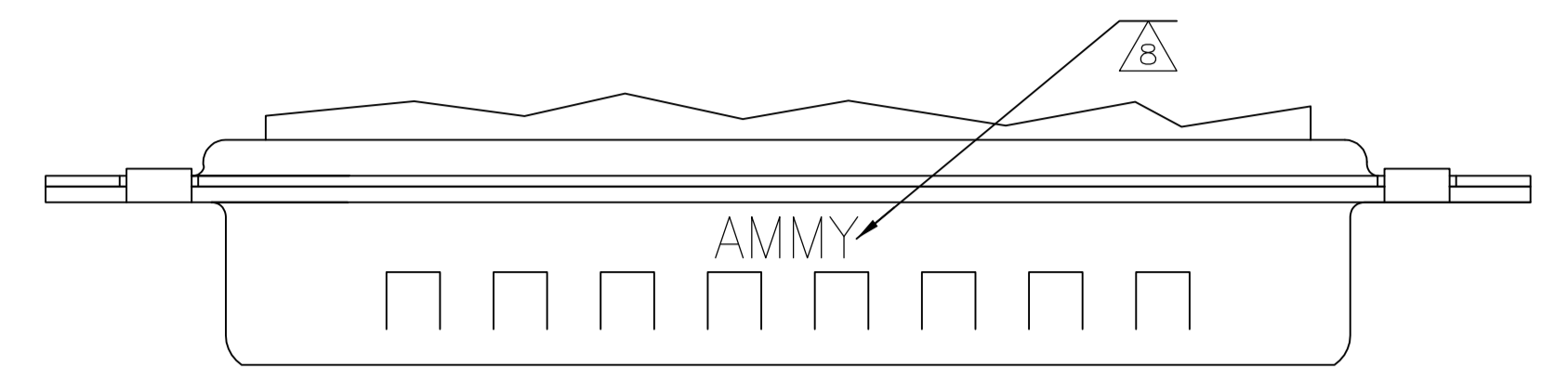
- **Number of Positions** = 25
- **Preloaded** = Yes

Industry Standards:

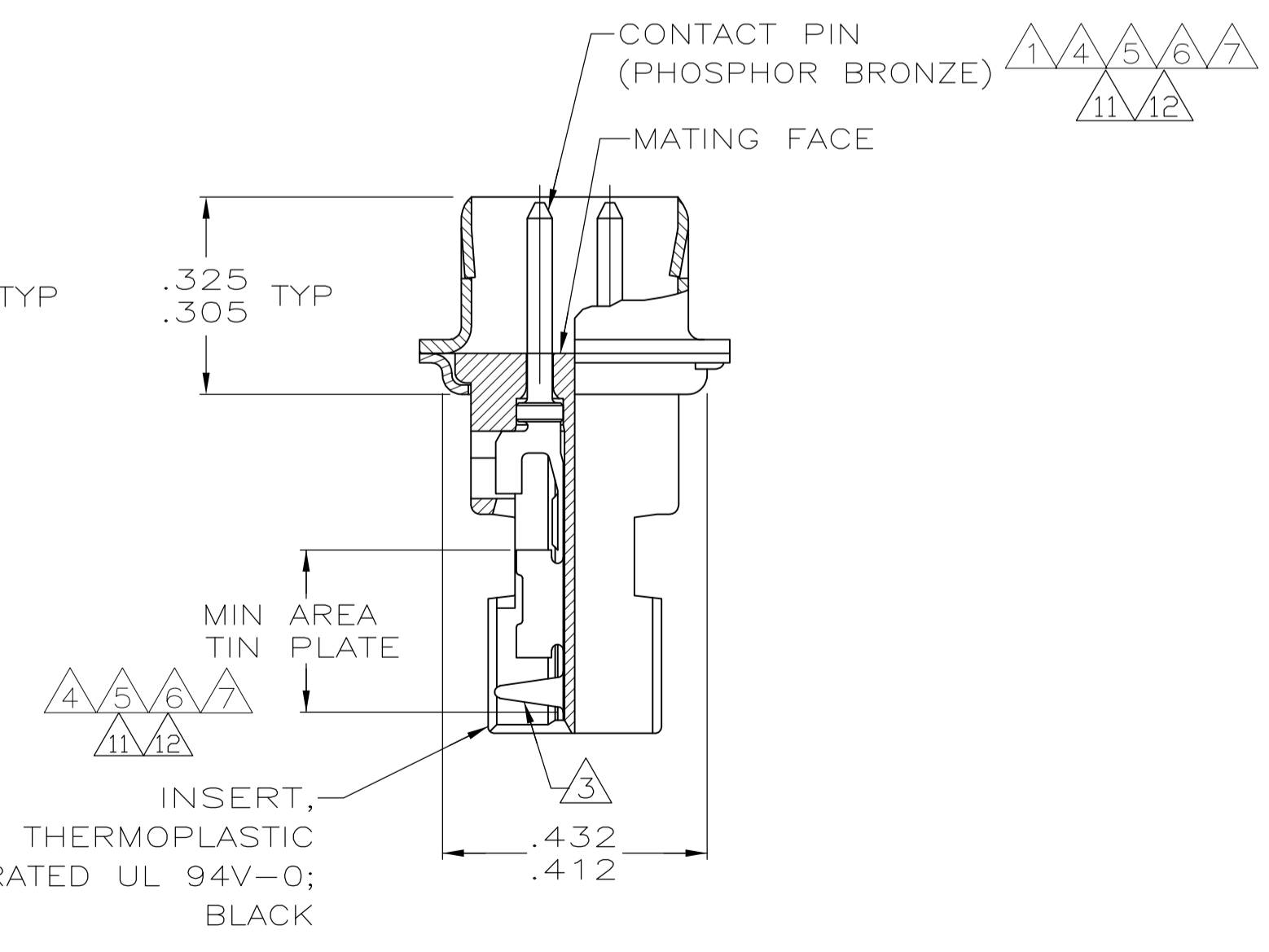
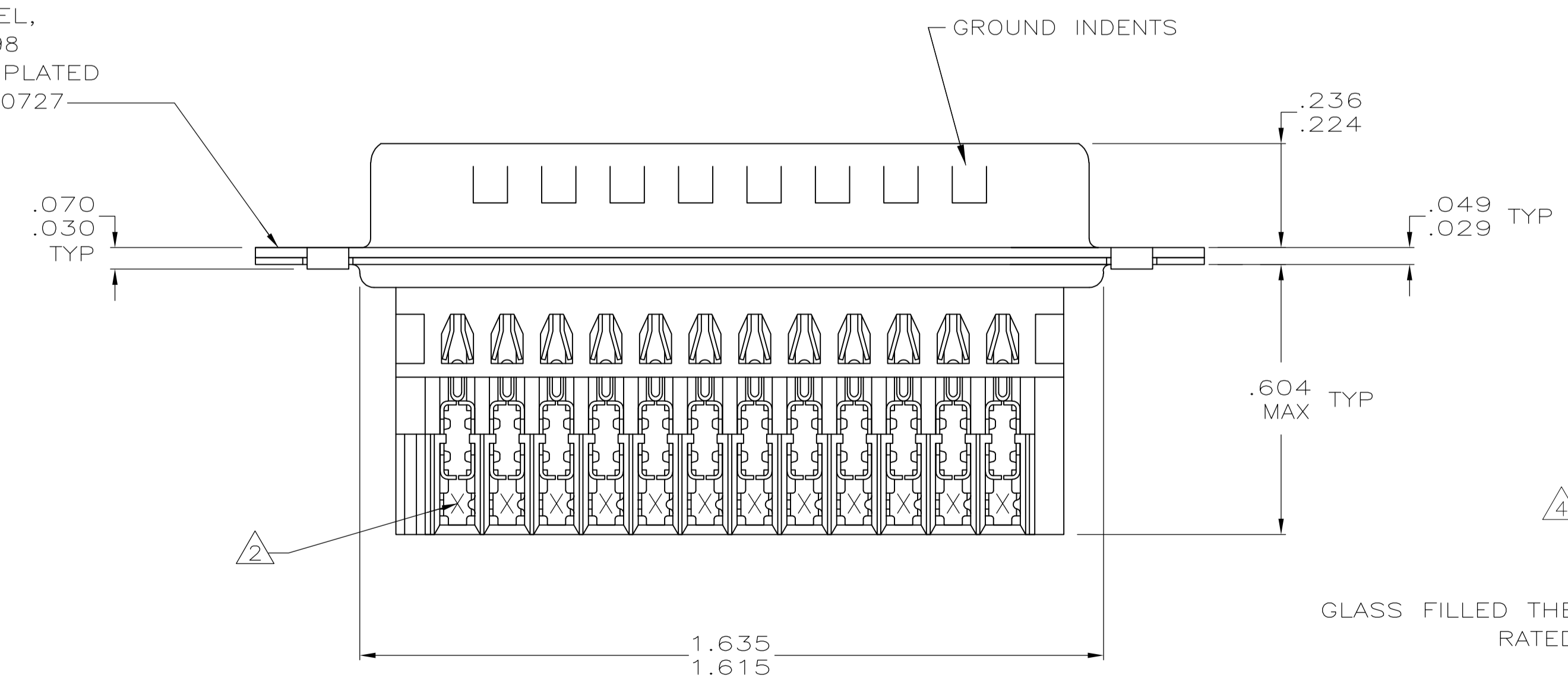
- **RoHS/ELV Compliance** = RoHS compliant, ELV compliant
- **Lead Free Solder Processes** = Not relevant for lead free process
- **RoHS/ELV Compliance History** = Always was RoHS compliant
- **Insert Flammability Rating** = UL 94V-0

Other:

- **Brand** = AMP
- **Comment** = All connectors are preloaded. Individual conductor strands should be larger than 0.13 [.005] diameter. Contacts accept a max. wire insulation thickness of 0.38 [.015]. HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.; Connectors can be made available with clinch nuts, contact AMP Incorporated; HDE connectors are designed for terminating solid or stranded (7-strand max.) wire.; Individual conductor strands should be larger than 0.127 in. [.005] diameter.; RS-232, size 3 connector, for 0.15-0.4mm²[26-22] AWG wire select loaded positions 1-8, 15, 17, 20 and 22, Plug P/N 747740-1, Receptacle P/N 747741-1, gold flash contacts.



SHELL, STEEL, PER QQ-S-698 BRIGHT-TIN PLATED PER MIL-T-10727



- 1 HOUSING FULLY LOADED WITH CONTACTS.
- 2 NUMBER ON CONTACT INDICATES WIRE RANGE.
- 3 CONTACT INSULATION RANGE: .060 MAXIMUM O.D.
- 4 CONTACTS GOLD PLATED FOR A LENGTH OF .150 MIN FROM MATING END, .000030 MIN GOLD IN MATED AREA, .000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD IN AREA SHOWN, ALL OVER .000050 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.
OR
CONTACTS GOLD PLATED FOR A LENGTH OF .150 MIN FROM MATING END, GOLD FLASH OVER .000030 MIN PALLADIUM-NICKEL IN MATED AREA, .000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD IN AREA SHOWN, ALL OVER .000050 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.
- 5 CONTACTS PLATED GOLD FLASH FOR A LENGTH OF .150 MIN FROM MATING END, .000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD IN AREA SHOWN, ALL OVER .000030 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.
- 6 .000020 GOLD ON MATING END FOR .150 MIN LENGTH. .000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD IN AREA SHOWN. .000050 NICKEL UNDERPLATE ON ENTIRE CONTACT.
- 7 GOLD PLATED FOR LENGTH OF .150 MIN FROM MATING END, .000050 MIN GOLD IN MATED AREA. .000100-.000200 BRIGHT TIN OR BRIGHT TIN-LEAD IN AREA SHOWN. .000050 NICKEL UNDERPLATE ON ENTIRE CONTACT.
- 8 SPECIAL DATE CODE IN THIS APPROXIMATE AREA. A; MM = MONTH; Y = LAST DIGIT OF YEAR.
- 9 OBSOLETE PART NUMBER.
- 10 SUPERSEDED BY 745496-5.
- 11 CONTACTS GOLD PLATED FOR A LENGTH OF .150 MIN FROM MATING END, .000030 MIN GOLD IN MATED AREA, .000100-.000200 MATTE TIN IN AREA SHOWN, ALL OVER .000050 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.
OR
CONTACTS GOLD PLATED FOR A LENGTH OF .150 MIN FROM MATING END, GOLD FLASH OVER PALLADIUM-NICKEL, .000030 MIN TOTAL IN MATED AREA, .000100-.000200 MATTE TIN IN AREA SHOWN, ALL OVER .000050 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.
- 12 CONTACTS PLATED GOLD FLASH FOR A LENGTH OF .150 MIN FROM MATING END, .000100-.000200 MATTE TIN IN AREA SHOWN, ALL OVER .000030 MIN NICKEL UNDERPLATE ON ENTIRE CONTACT.

STANDARD	FINISH	AWG	CONTACT FINISH	WIRE RANGE	PART NUMBER
.125 .115	11	3	#20-22	2-745496-0	
.125 .115	11	1	#26-30	1-745496-9	
.125 .115	12	2	#22-26	1-745496-8	
.125 .115	11	2	#22-26	1-745496-7	
SMALL PACK .125 .115	5	2	#22-26	10 1-745496-6	
.125 .115	7	2	#22-26	9 1-745496-4	
.125 .115	6	2	#22-26	9 1-745496-3	
.156 .146	5	3	#20-22	9 1-745496-2	
.156 .146	5	2	#22-26	9 1-745496-1	
.156 .146	4	1	#26-30	9 1-745496-0	
.156 .146	4	3	#20-22	9 745496-9	
.156 .146	4	2	#22-26	9 745496-8	
.125 .115	5	1	#26-30	9 745496-7	
.125 .115	5	3	#20-22	9 745496-6	
.125 .115	5	2	#22-26	9 745496-5	
.125 .115	4	1	#26-30	9 745496-4	
.125 .115	4	3	#20-22	9 745496-3	
.125 .115	4	2	#22-26	9 745496-2	
.125 .115	4	1	#26-30	9 745496-1	
PACKAGING	H	CONTACT FINISH	AWG WIRE RANGE	PART NUMBER	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DIN L VARELA - DOCKS 3/26/90	TE Connectivity
0 PLC ± -	1 PLC ± -	J. GERACE 11-16-04	PLUG ASSY, METAL SHELL, SIZE 3, 25 POSN, SERIES HDE-20 FOR MASS TERMINATION
2 PLC ± -	3 PLC ± .005	M. WALMSLEY 11-16-04	108-40011
4 PLC ± -	ANGLES ± °		114-40002
MATERIAL SEE CALL OUT	FINISH SEE TABLE	WEIGHT -	SIZE A1
		CUSTOMER DRAWING	SCALE 4:1 SHEET 1 OF 1 REV U1