

## 1-745498-7 Product Details

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**1-745498-7**

TE Internal Number: 1-745498-7

Active

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### Standard Cable Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

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

[View all Features](#)

### Quick Links

- ▶ [Pricing & Availability](#)
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- ▶ [View Mating Products \(6\)](#)
- ▶ [Product Feature Selector](#)
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### Documentation & Additional Information

#### Product Drawings:

- [PLUG ASSEMBLY, METAL SHELL, SIZE 4, 37 POSITION, SER...](#) (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 \(6\)](#)

### 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
- **Wire Insulation Diameter (mm [in])** = 1.52 [0.060]
- **Mating Connector Lock** = With
- **Mating Connector Lock Type** = Mounting Holes
- **Shell Size** = 4
- **Shell Type** = Full Metal Shell
- **Grounding Indents** = With
- **Grade** = Standard
- **Color** = Black

#### Termination Features:

- **Termination Method to Wire/Cable** = Insulation Displacement Crimp (IDC)

#### Body Features:

- **Wire Range (mm<sup>2</sup> [AWG])** = 0.15 - 0.40 [26-22]
- **Shell Material** = Steel
- **Shell Plating** = Tin
- **Insert Material** = Thermoplastic

#### Contact Features:

- **Contact Type** = Pin
- **Contact Base Material** = Phosphor Bronze
- **Contact Plating, Mating Area, Material** = Gold Flash
- **Solder Tail Contact Plating** = Matte Tin over Nickel
- **Contact Size** = 20

#### Housing Features:

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

#### Configuration Features:

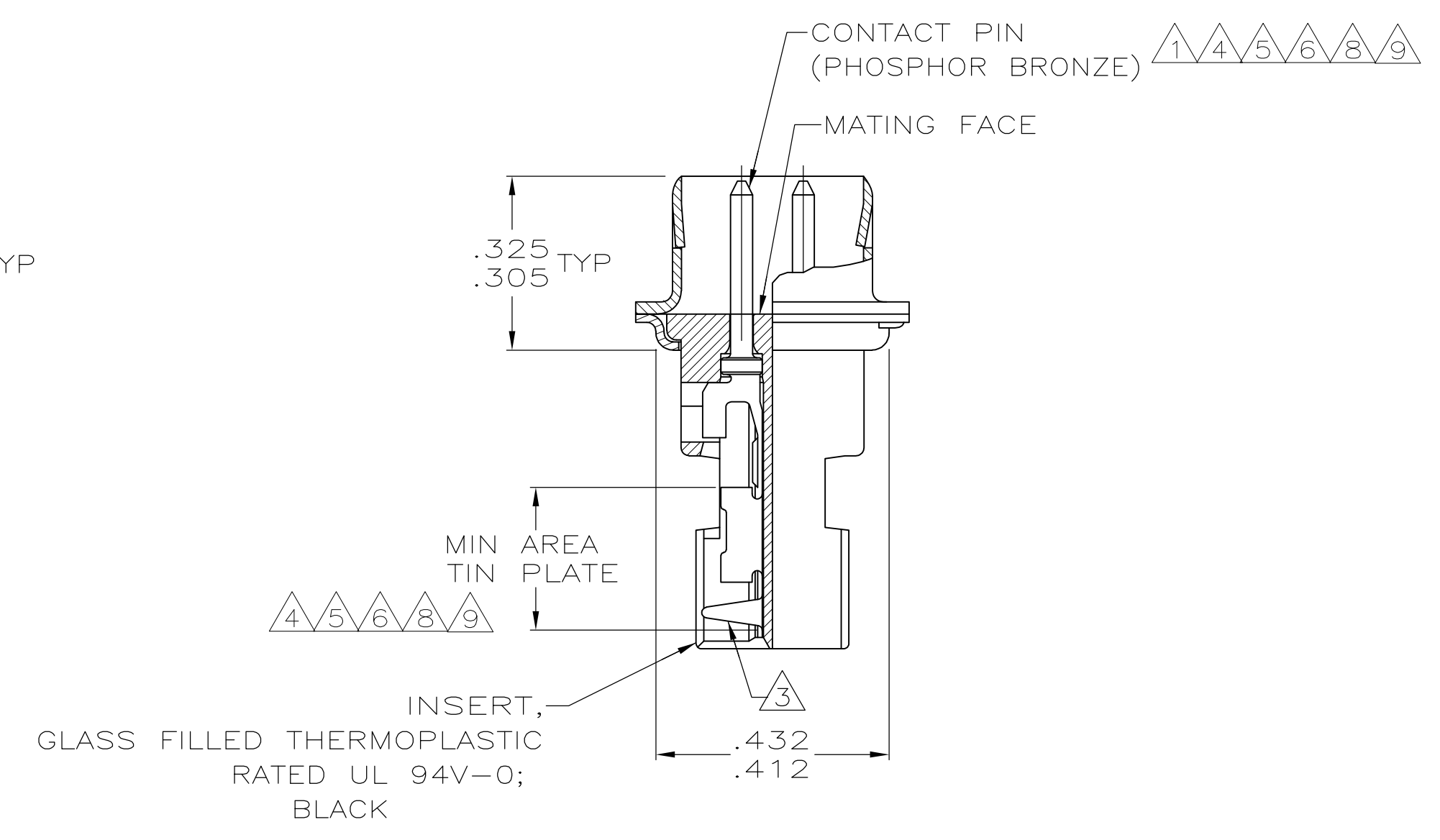
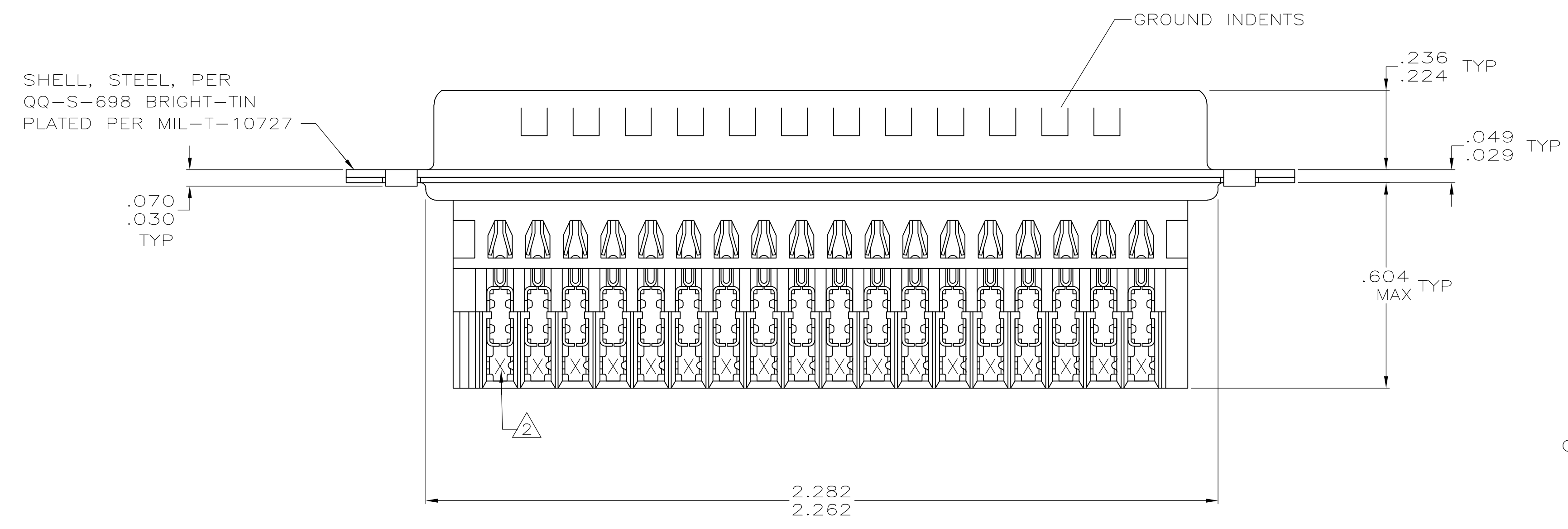
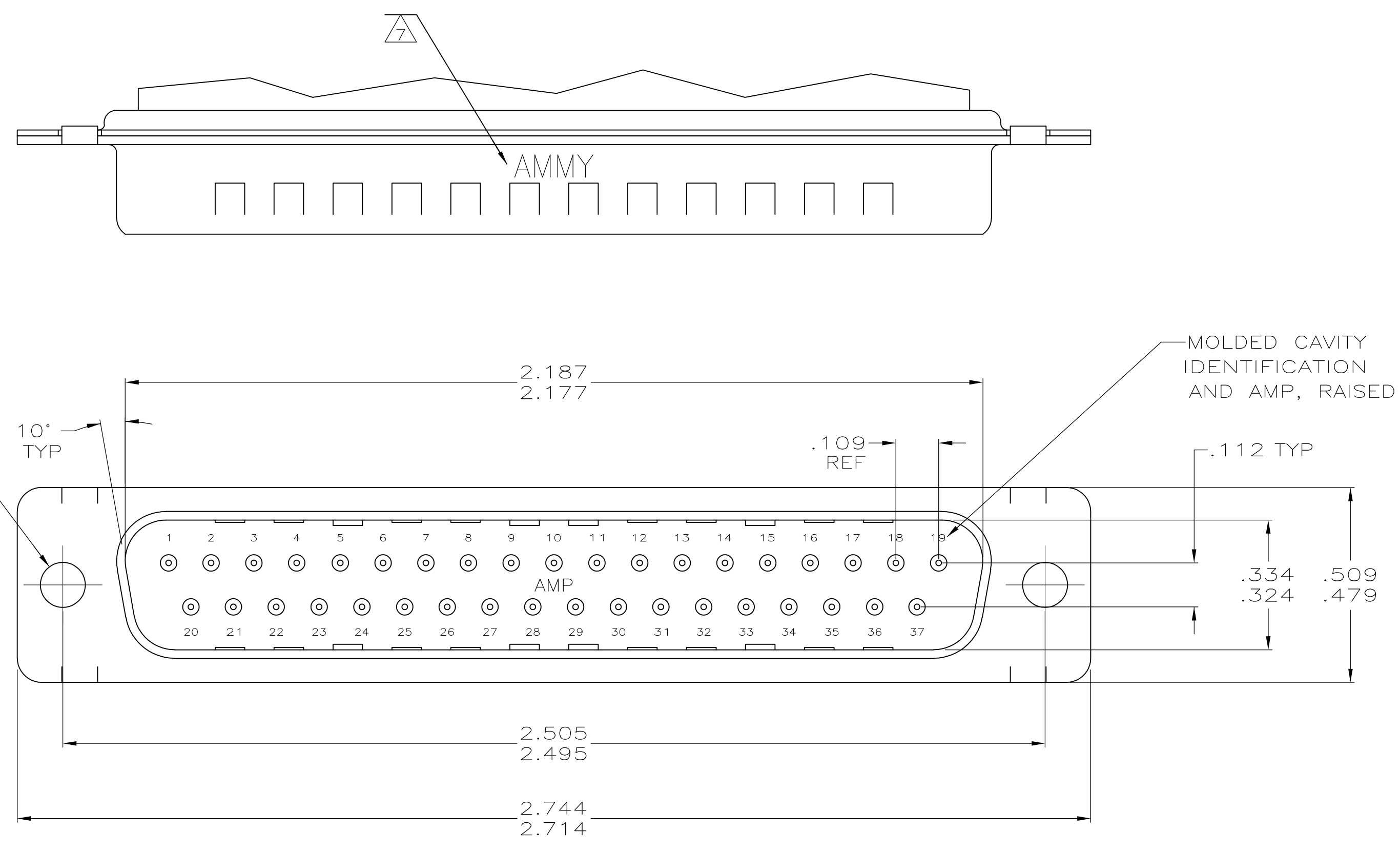
- **Number of Positions** = 37
- **Preloaded** = Yes

#### 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** = 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.; 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.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN L. VARELA - 11-16-04	TE Connectivity	
DIMENSIONS: INCHES		CHK J. GERACE	NAME PLUG ASSEMBLY, METAL SHELL, SIZE 4, 37 POSITION, SERIES HDE-20 FOR MASS TERMINATION	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APRD M. WALMSLEY	PRODUCT SPEC 108-40011	RESTRICTED TO
0. PLC ± .005		NAME	APPLICATION SPEC 114-40002	SIZE
1. PLC ± .005		DATE	11-16-04	CAGE CODE
2. PLC ± .005		DRAWING NO	00779	DRAWING NO
3. PLC ± .005		SCALE	4:1	REV
4. PLC ± .005		REV	U1	
ANGLES ± .2°		CUSTOMER DRAWING		
FINISH SEE TABLE		SCALE 4:1 SHEET 1 OF 2 REV U1		

LOC	DIST	REVISIONS				
		REV	DESCRIPTION	DATE	BY	APPV
GP	00		SEE SHEET 1			

- 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 GOLD PLATED FOR LENGTH OF .150 MIN FROM MATING END, GOLD FLASH IN MATED AREA. .000100-.000200 BRIGHT TIN OR BRIGHT IN TIN-LEAD AREA SHOWN. .000030 NICKEL UNDERPLATE ON ENTIRE CONTACT.
- ⑥ GOLD PLATED FOR LENGTH OF .150 MIN FROM MATING END, .000050 MIN GOLD IN MATED AREA, .000100-.000200 BRIGHT TIN OR BRIGHT IN TIN-LEAD AREA SHOWN. .000050 NICKEL UNDERPLATE ON ENTIRE CONTACT.
- ⑦ SPECIAL DATE CODE IN THIS APPROXIMATE AREA.  
A; MM = MONTH; Y = LAST DIGIT OF YEAR.
- ⑧ 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.
- ⑨ 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.

OBSOLETE	.125	⑨	3	#20-22	1-745498-8
	.115				
OBSOLETE	.125	⑨	2	#22-26	1-745498-7
	.115				
OBSOLETE	.125	⑧	1	#26-30	1-745498-6
	.115				
OBSOLETE	.125	⑧	2	#22-26	1-745498-5
	.115				
OBSOLETE	.125	⑥	2	#22-26	1-745498-3
	.115				
OBSOLETE	.156	⑤	3	#20-22	1-745498-2
	.146				
OBSOLETE	.156	⑤	2	#22-26	1-745498-1
	.146				
OBSOLETE	.156	④	3	#20-22	745498-9
	.146				
OBSOLETE	.156	④	2	#22-26	745498-8
	.146				
OBSOLETE	.125	⑤	3	#20-22	745498-6
	.115				
OBSOLETE	.125	⑤	2	#22-26	745498-5
	.115				
OBSOLETE	.125	④	3	#20-22	745498-3
	.115				
OBSOLETE	.125	④	2	#22-26	745498-2
	.115				
OBSOLETE	.125	④	1	#26-30	745498-1
	.115				
SUPERSEDED BY 745498-1					
		H	CONTACT FINISH	②	AWG WIRE RANGE
					PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN 11-16-04 L. VARELA - DOCKS		TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPROVED: M. WALMSLEY 11-16-04	
0 PLC ± -		1 PLC ± -		NAME: PLUG ASSEMBLY, METAL SHELL, SIZE 4, 37 POSITION, SERIES HDE-20 FOR MASS TERMINATION	
1 PLC ± -		2 PLC ± -		PRODUCT SPEC: 108-40011	
2 PLC ± -		3 PLC ± .005		APPLICATION SPEC: 114-40002	
3 PLC ± -		4 PLC ± -		SIZE: A1	
4 PLC ± -		ANGLES ± °		CAGE CODE: 00779	
MATERIAL: SEE CALL OUT		FINISH: SEE TABLE		DRAWING NO: 745498	
		WEIGHT: -		RESTRICTED TO: -	
		CUSTOMER DRAWING		SCALE: 4:1 SHEET 2 OF 2 REV U1	