



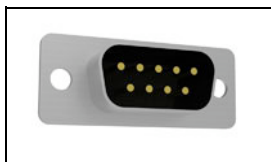
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5-747904-2 Product Details

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5-747904-2

TE Internal Number: 5-747904-2

Active

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Standard Cable Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Connector
- Product Series = HD-20 (Solder Cup)
- 9 Positions
- Without Enclosure
- Connector Style = Plug

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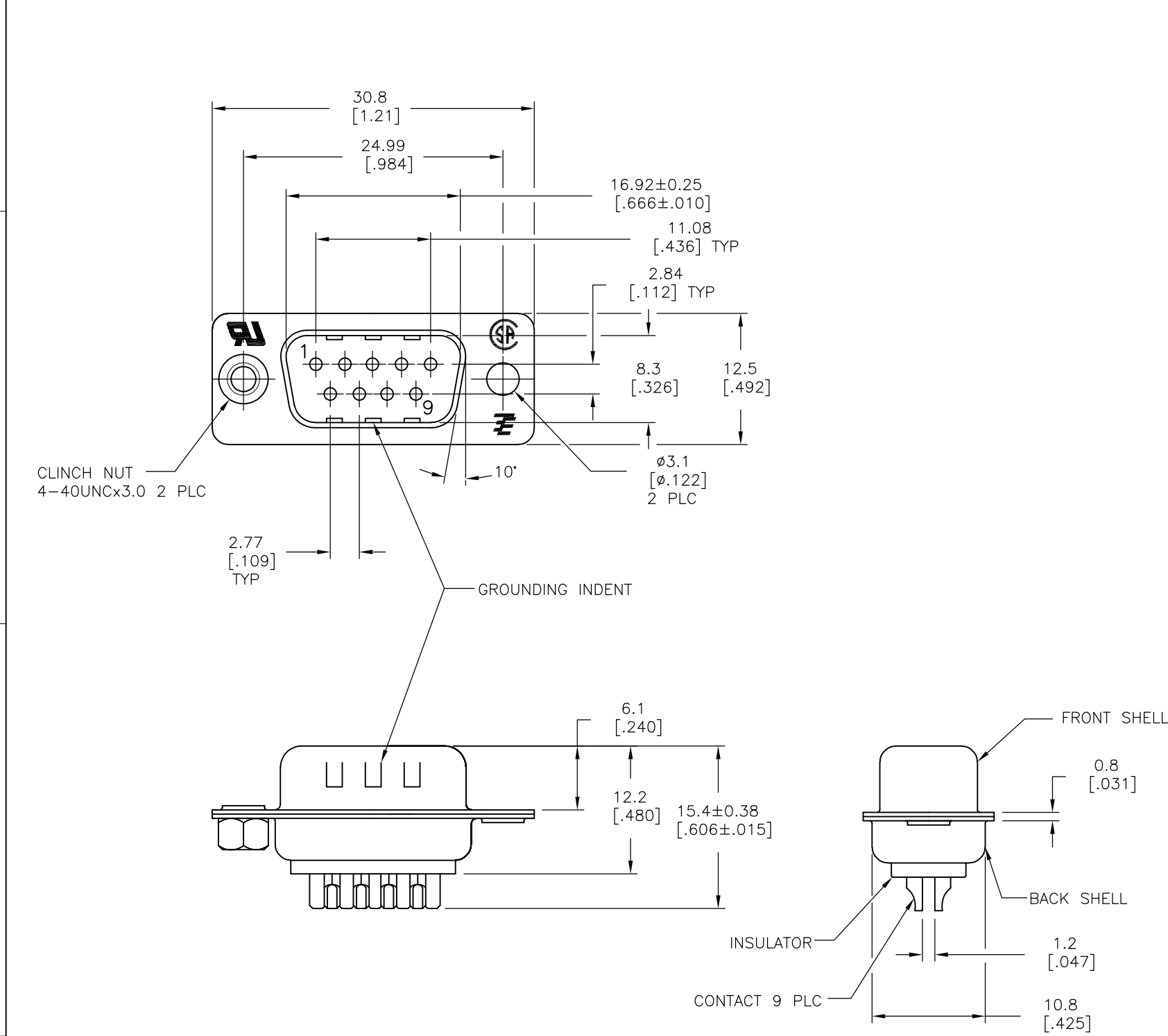
Documentation & Additional Information	
<p>Product Drawings:</p> <ul style="list-style-type: none"> • PLUG ASSY, SOLDER CUP, SIZE 1, 9 POSN, HD-20, AMPLIMITE (PDF, English) <p>Catalog Pages/Data Sheets:</p> <ul style="list-style-type: none"> • AMPLIMITE Subminiature D Connectors - Cable Connectors (PDF, English) <p>Product Specifications:</p> <ul style="list-style-type: none"> • AMPLIMITE HD-20 Subminiature D Solder Cup Plug and R... (PDF, English) <p>Application Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Instruction Sheets:</p> <ul style="list-style-type: none"> • AMPLIMITE HDP-20 Connectors with Solder Cup Contacts (PDF, English) <p>CAD Files: (CAD Format & Compression Information)</p> <ul style="list-style-type: none"> • 2D Drawing (DXF, Version U) • 3D Model (IGES, Version U) • 3D Model (STEP, Version U) 	<p>Additional Information:</p> <ul style="list-style-type: none"> • Product Line Information <p>Additional Product Images:</p> <ul style="list-style-type: none"> • Product Photo <p>Related Products:</p> <ul style="list-style-type: none"> • Tooling

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)	
<p>Product Type Features:</p> <ul style="list-style-type: none"> • Product Type = Connector • Product Series = HD-20 (Solder Cup) • Termination Method to Wire/Cable = Solder • Mating Connector Lock = With • Mating Connector Lock Type = Mounting Holes • Shell Size = 1 • Shell Type = Full Metal Shell • Grounding Indents = With • Grade = Standard • Color = Black • Shell Material = Steel <p>Termination Features:</p> <ul style="list-style-type: none"> • Solder Tail Contact Plating = Tin-Copper over Nickel <p>Body Features:</p> <ul style="list-style-type: none"> • Wire Range (mm² [AWG]) = 0.5 - 0.6 [20] • Shell Plating = Tin • Insert Material = Thermoplastic <p>Contact Features:</p> <ul style="list-style-type: none"> • Contact Type = Pin • Contact Base Material = Phosphor Bronze • Contact Plating, Mating Area, Material = Gold Flash • Contact Size = 20 • Contact Configuration = Solder Cup 	<p>Housing Features:</p> <ul style="list-style-type: none"> • Enclosure = Without • Connector Style = Plug <p>Configuration Features:</p> <ul style="list-style-type: none"> • Number of Positions = 9 • Preloaded = Yes <p>Industry Standards:</p> <ul style="list-style-type: none"> • RoHS/ELV Compliance = RoHS compliant, ELV compliant • Lead Free Solder Processes = Hand solderable with lead free solder • RoHS/ELV Compliance History = Always was RoHS compliant • Insert Flammability Rating = UL 94V-0 <p>Other:</p> <ul style="list-style-type: none"> • Brand = AMP

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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00	W	REVISED PER ECO-13-000398	01JUL2013	CJV CWR



- 1 MATERIAL:
FRONT INSULATOR: PBT, 30 %GF, UL94V-0, BLACK COLOR
BACK INSULATOR: PBT, 30 %GF, UL94V-0, BLACK COLOR
CONTACT: BRASS
FRONT & BACK SHELL: STEEL
CLINCH NUTS: BRASS
- 2 FINISH:
CONTACT: GOLD PLATING 0.00002[.0000008] MIN ON CONTACT AREA 0.00229 [.000090] MIN TIN-LEAD PLATING ALL OVER 0.00127[.000050] MIN NICKEL
- 3 CONTACT: GOLD PLATING 0.00076[.000030] MIN ON CONTACT AREA 0.00229 [.000090] MIN TIN-LEAD PLATING ALL OVER 0.00127[.000050] MIN NICKEL
- 4 SHELL: BRIGHT TIN 0.0241[.000095] MIN FULL SHELL
- 5 SHELL: BLUE ZINC: 0.00508[.000200] - 0.00762[.000300] OVER ENTIRE SHELL
- 6 CONTACT: GOLD PLATING 0.00002[.0000008] MIN ON CONTACT AREA 0.00229 [.000090] MIN HOT DIPPED TIN-COPPER PLATING ALL OVER 0.00127[.000050] MIN NICKEL
- 7 CLINCH NUTS: NICKEL PLATING .00305-.00508[.000120-.000200]
- 8 SPECIFICATION
ELECTRICAL CHARACTERISTICS: CURRENT RATING: 3 AMPERES
DIELECTRIC WITHSTANDING VOLTAGE: AC 1000V r.m.s
INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT DC 500V
CONTACT RESISTANCE: 10 MILLIOHMS MAXIMUM.
- 9 ROHS 2002/95/EC/COMPLIANT
- 10 PLUG ASSEMBLY MATES WITH ANY 9 POSITION RECEPTACLE IN AMPLIMITE SERIES.
- 11 SOLDER CUP WILL ACCOMODATE 20 AWG MAX WIRE
- 12 CONTACT: GOLD PLATING 0.00076[.000030] MIN ON CONTACT AREA 0.00229[.000090] MIN HOT DIPPED TIN-COPPER ALL OVER 0.00127[.000050] MIN NICKEL PLATING

REV	DESCRIPTION	DATE	DWN	APVD	PART NO.		
9	STANDARD	NO	NO	6	4	5-747904-4	
9	STANDARD	YES	YES	6	4	5-747904-8	
9	STANDARD	NO	YES	12	4	5-747904-5	
9	STANDARD	NO	YES	6	4	5-747904-2	
9	OBSOLETE	STANDARD	NO	YES	6	4	747904-9
	OBSOLETE	STANDARD	YES	YES	2	4	747904-8
	OBSOLETE	STANDARD	NO	YES	3	4	747904-5
	OBSOLETE	STANDARD	NO	NO	2	5	747904-4
	OBSOLETE	STANDARD	NO	YES	2	4	747904-2
	PACKAGING TYPE	7	CLINCH NUTS	GROUNDING INDENTS	CONTACTS	SHELLS	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DWN M.BINNER 03MAR03	TE Connectivity		
DIMENSIONS: mm		CHK R.BENDORF 05MAR03			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD R.BENDORF 05MAR03	NAME		
0 PLC ± -		PRODUCT SPEC	PLUG ASSY, SOLDER CUP, SIZE 1, 9 POSN, HD-20, AMPLIMITE		
1 PLC ± 0.25		APPLICATION SPEC	SIZE	CAGE CODE	DRAWING NO
2 PLC ± 0.13		WEIGHT -	A3	00779	C-747904
3 PLC ± 0.05		CUSTOMER DRAWING	SCALE	SHEET	REV
4 PLC ± -			2:1	1 OF 1	W
ANGLES ± 4°					
MATERIAL 1	FINISH SEE TABLE				