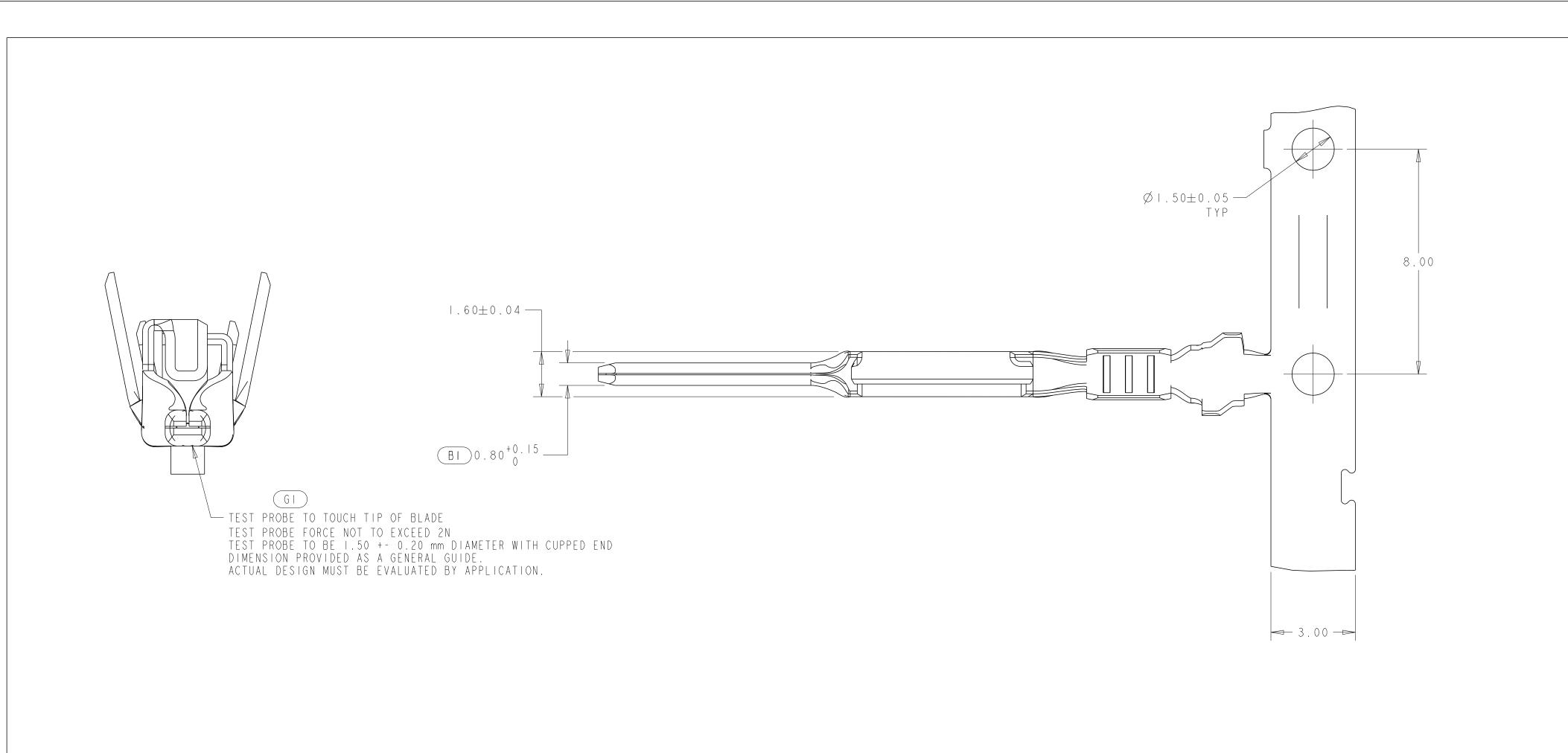
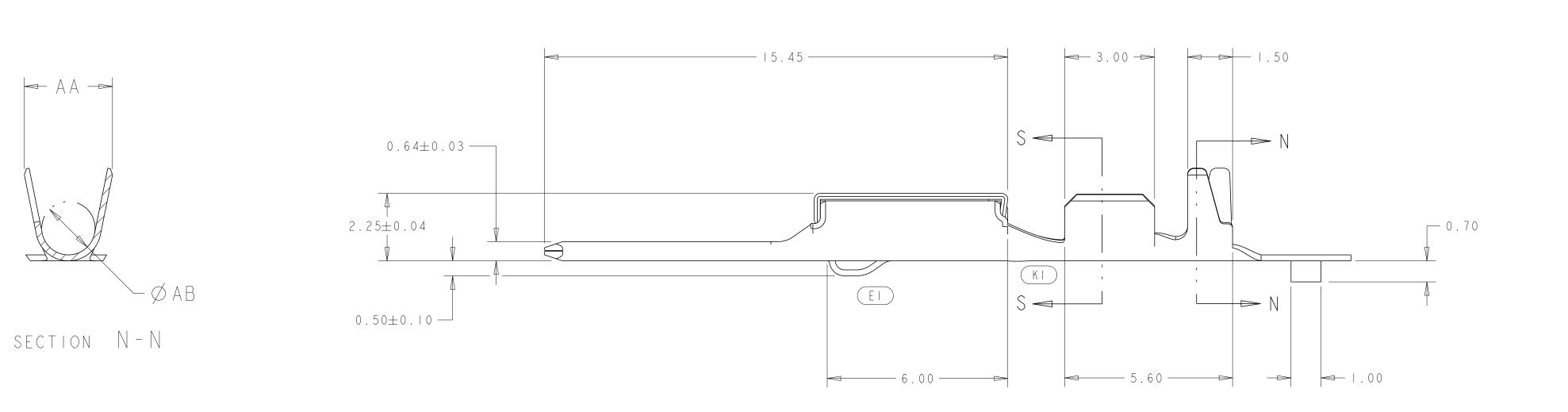
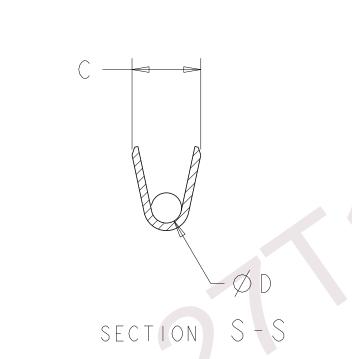
Part Name TRMNL WIR SNP ON MALE Cust. Part Number 7114-6546-02  Shown on Drawling No. 9U5T-14421-BA Org. Part Number 0-1924275-1 (9U5T-14421-BA)  Engineering Change Level AELE-E-11783996-900 Dated 21-févr-12  Additional Engineering Changes N/A Dated N/A  Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (g) 0,1504  Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION CUSTOMER SUBMITTAL INFORMATION  TYCO US North Carolina Yazakl  Supplier Name & Supplier Code Customer Name/Division  233 Burgess Road Buyer/Buyer Code N/A								
Engineering Change Level AELE-E-11783996-900 Dated 21-févr-12  Additional Engineering Changes N/A Dated N/A  Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (g) 0,1504  Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION  TYCO US North Carolina Yazakl  Supplier Name & Supplier Code Customer Name/Division	<u></u>							
Additional Engineering Changes N/A Dated N/A  Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (g) 0,1504  Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION  TYCO US North Carolina Yazakl  Supplier Name & Supplier Code Customer Name/Division								
Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (g) 0,1504  Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION  TYCO US North Carolina Yazakl  Supplier Name & Supplier Code Customer Name/Division								
Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (g) 0,1504  Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION  TYCO US North Carolina Yazakl  Supplier Name & Supplier Code Customer Name/Division								
Checking Aid No. N/A Checking Aid Engineering Change Level N/A Dated N/A  ORGANIZATION MANUFACTURING INFORMATION  TYCO US North Carolina Supplier Name & Supplier Code  Customer Name/Division								
TYCO US North Carolina  Supplier Name & Supplier Code  Customer Name/Division								
Supplier Name & Supplier Code Customer Name/Division	ORGANIZATION MANUFACTURING INFORMATION CUSTOMER SUBMITTAL INFORMATION							
233 Burgess Road Buyer/Buyer Code N/A								
Clanat Address								
Street Address Greensboro US 27409 Application FORD								
City State Zip								
MATERIALS REPORTING								
Has customer-required Substances of Concern Information been reported?  Submitted by IMDS or other customer format:  86751485 / 3								
Are polymeric parts Identified with appropriate ISO marking codes?								
REASON FOR SUBMISSION								
☐ Initial Submission ☐ Change to Optional Construction or Material ☐ Engineering Change(s) ☐ Sub-Supplier or Material Source Change								
☐ Tooling: Transfer, Replacement, Refurbishment or additional ☐ Change in Part Processing								
Correction of Discrepancy Part Produced at Additional Location								
☐ Tooling Inactive > 1 year ☐ Other - Please specify below								
REQUESTED SUBMISSION LEVEL (Check one)								
✓ Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.								
Level 2 - Warrant with product samples and limited supporting data submitted to customer.								
Level 3 - Warrant with product samples and complete supporting data submitted to customer.								
Level 4 - Warrant and other requirements as defined by customer.								
Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.								
SUBMISSION RESULTS								
The results for dimensional measurements material and functional tests appearance criteria statistical process package  These results meet all drawing and specification requirements: YYES NO (If "NO" - Explanation Required)								
Mold / Cavity / Production Process Die								
DECLARATION  I hereby affirm that the samples represented by this warrant are representative of our parts, have been made to the applicable								
Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of / hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.								
EXPLANATION/COMMENTS:	<u></u>							
Is each Customer Tool Properly tagged and numbered? ☐ YES ☐ NO ☑ n/a								
Organization Authorized Signature  Date 23-avr-13								
Print Name Catherine LE MOAN Phone No. 01 34 20 60 87 Fax No. 01 34 20 60	10							
Title Quality Assurance E-mail clemoan@tycoelectronics.com								
FOR CUSTOMER USE ONLY (IF APPLICABLE)								
FOR CUSTOMER USE ONLY (IF APPLICABLE)	12							





0.64mm MALE TERMINAL scale 10:1



## NOTES FOR TERMINAL

- I. PARTS MUST CONFORM TO THE ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) VER. 13, DATED 29/MAR/06
- F2 2. PART MUST CONFORM TO THE LATEST LEVEL OF USCAR-2 DATED 14/JAN/04, EXCEPT FOR 4N TERMINAL BEND RESISTANCE ON O.I3mm<sup>2</sup> GRIP TERMINAL. A TERMINAL INSERTION TOOL MAY BE USEFUL FOR 0.13mm<sup>2</sup> WIRE. 0.13mm<sup>2</sup> GRIP NOT INTENDED FOR
  - 3. REFERENCE TE CONNECTIVITY APPLICATION SPECIFICATION 114-13183
  - 4. N/A

SEALED APPLICATIONS.

- 5. N/A F2 6. N/A
- 7. FORD MOTOR COMPANY APPROVAL REQUIRED FOR ALL SOURCING AND TOOLING OF THIS PART
- 8. FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING RELEASE
- 9. ENGINEERING APPROVAL OF SAMPLE FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION
- IO. CHANGES IN DESIGN COMPOSITION OR PROCESSING FROM THE PART PREVIOUSLY APPROVED FOR PART PRODUCTION REQUIRES PRIOR ENGINEERING APPROVAL.
- II. GENERAL TOLERANCES: ± 0.3 ALL ONE PLACE DIMENSIONS, ± 0.15 ALL TWO PLACE DIMENSIONS, ±1° ALL ANGULAR DIMENSIONS.
- 12. N/A

OF PART PRODUCTION.

- 13. 0.2mm MAXIMUM RADIUS PERMISSIBLE ON EDGES AND FILLETS SHOWN AS SHARP FOR STAMPING PARTS
- 14. N/A
- 15. N/A
- 16. SOURCE IDENTIFICATION MARK AND PRODUCTION DATE CODE MUST BE PERMANENTLY APPLIED ON THE PART WITH 0.65mm LETTER SIZE FROM THE BOTTOM TO THE TOP OF THE CHARACTER AND LEGIBLE WHEREVER PACKAGE SIZE PERMITS OR OTHER AGREEMENTS ARE MADE.
- 17. DRAWING CONFORMS TO AVP- (T401/T406) -001 REVISION C DATED 08/AUG/03
- 18. CONTACTS ARE TERMINATED WITH AMP-O-LECTRIC MODEL "G"; TE CONNECTIVITY PART NO. 354500-1, WITH TE CONNECTIVITY APPLICATOR PART NO: SEE RECOMMENDED CRIMP TOOL TABLE.
- WIRE TYPE THAT IS CAPABLE OF SATISFYING THE ENVIRONMENTAL CONSTRAINTS OF THE APPLICATION.
- J3 20 THIS WIRE HAS NOT BEEN VALIDATED FOR SEALING.
- J3 21 NOT RELEASED FOR PRODUCTION

	RECOMMENDED CRIMP	TOOL	
FORD PART NUMBER	TE CONNECTIVITY PART NUMBER	APPLICATION TOOLING	
9U5T-I442I-BA	1924275-1	SEE TE CONNECTIVITY PART NO 1385873-3	
9U5T-I442I-CA	1924275-2	SEE TE CONNECTIVITY PART NO 1852097-3	
9U5T-14421-ZA 20	1924275-5	SEE TE CONNECTIVITY PART NO 1855452-3	F 3
DU5T-14421-FA 20 21	1924275-6	SEE TE CONNECTIVITY PART NO 1855453-3	J2

AI - CHANGE DRAWING FORMAT SIZE TO AO/E A2 - ADD 9U5T-14421-ZA A3 - ADDED 9U5T-14421-CAA A4 - ADD NOTES 19, 20 A5 - ADD CODE ES-AU5T-IA348-AA TO TABLES ON SHEET I ARCHIVE DATE: 081001 AELE-E-11783996-380 ( ) D. HARDY | J. HALL | G. LEECE BI - ADDED +0.15/-0 TOLERANCE TO 0.80 DIM B2 - WAS 0.80±0.03 AELE-E-11783996-420 DATE: 081114 ( ) R. VESTAL | C. SCHMID | G. LEECE CI - SHT 3 SECTION Z-Z: REMOVED NOTE C2 - SHT 3 SECTION Z-Z: REMOVED DIM C3 - SHT 3 SECTION Z-Z: DIM 1.70  $\pm$ 0.03 WAS 1.80 AELE-E-11783996-447 DATE: 090219 ( ) D. DRUMMOND | C. SCHMID | G. LEECE DI - REMOVED 9U5T-14421-CAA AELE-E-11783996-461 DATE: 090325 ( ) D. DRUMMOND | C. SCHMID | G. LEECE EI - UPDATED MODEL TO SHOW NEW POLARIZATION FEATURE AELE-E-11783996-494 DATE: 090903 ( ) D. DRUMMOND | C. SCHMID | G. LEECE FI RELEASED 9U5T-14421-ZA FOR PRODUCTION AUTHORITY F2 - REVISED NOTE 2; REMOVED NOTE 19 AND REMOVED NOTE 6 F3 - REVISED/ADDED COLUMN F4 - UPDATED TERMINAL & CRIMP TABLE AELE-E-11783996-474 DATE: 091222 ( ) D. DRUMMOND | C. SCHMID | G. LEECE GI - ADDED PROBING DETAIL VIEW AND NOTE DATE: 110329 AELE-E-11783996-764 D. DRUMMOND | C. SCHMID | G. LEECE HI - REVISED WIRE CODE COLUMN AELE-E-11783996-792 DATE: 110505 D. DRUMMOND | C. SCHMID | G. LEECE JI - ADDED DU5T-14421-FA
J2 - UPDATED TABLES, SHT I
J3 - ADDED NOTE 20 & 21
J4 - UPDATED CRIMP TABLES, SHT 2
J5 - RELEASED 9U5T-14421-CA FOR PRODUCTION AUTHORITY AELE-E-11783996-812 DATE: 111006 D. DRUMMOND | C. SCHMID | G. LEECE KI - TRANSITION AREA REVISED FOR IMPROVED BEND RESISTANCE ON 9U5T-14421-ZA ONLY. AELE-E-11783996-900 DATE: 120221 D. DRUMMOND | C. SCHMID | K. LAZAR

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REVISIONS

( )

ORIGINATOR | CHECKER | ENGRAPP | MATL APP

RELEASED 9U5T-14421-BA FOR PRODUCTION AUTHORITY

H. MOLL J. HALL G. LEECE

LTRS

ARCHIVE DATE: 071105

AELE-E-11783996-276

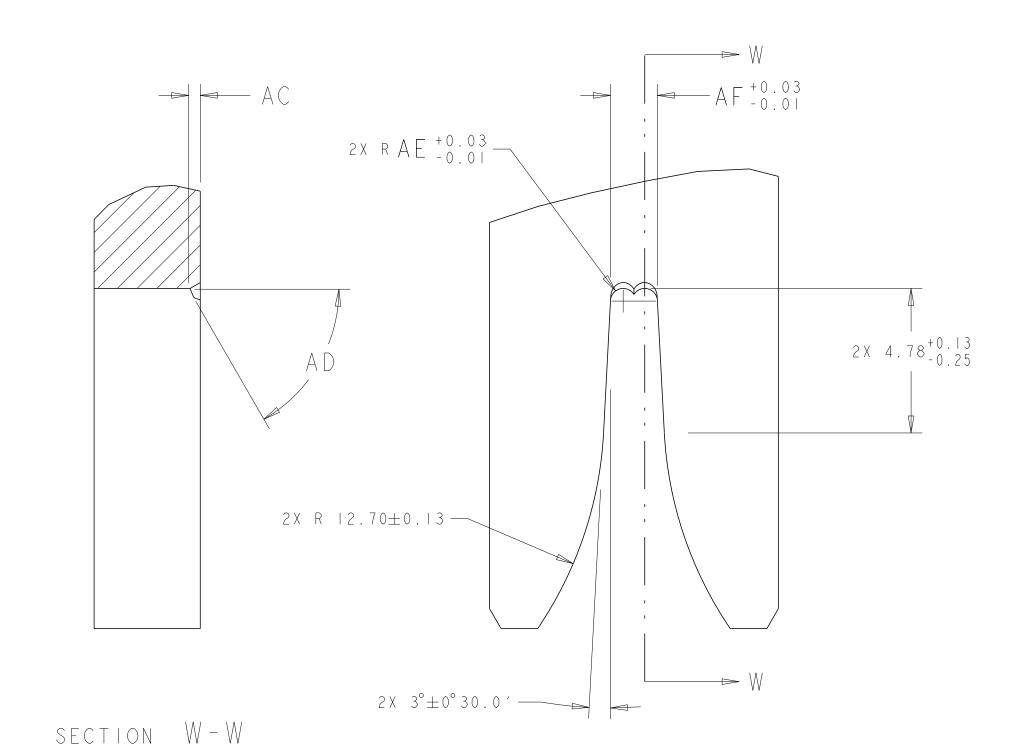
																APPLICABLE WIRE SIZE	(F3)	F 3		MATING PARTS	
	FORD PART NUMBER	TE PART NUMBER	DESCRIPTION	MATL SPEC	PLATING	C	D	AA	AB	APPROX WEIGHT	MATL THK	MAX TEMP	ESB-MILI23-A	WSB-MILI34-AI	ESB-MILI20-A	ISO WIRE SIZE	ES-AU5T-1A348-AA CODE 19	ES-BR33-1A348-AA CODE 19	FORD PART NO	SUPPLIER PART NO	DESCRIPTION
													22 AWG	22 AWG	22 AWG		N A	NA			
	9U5T-14421-BA	1924275-1	0.64 MALE TERMINAL	C 2 6 0	TIN	1.82	0.80	2 0 4	1.78		(	105°C			0.35mm <sup>2</sup>	0.35mm <sup>2</sup>	2SAD, 2SAE HI	N A			
	9031-14421-BA	1924213-1	0.64 MALE TERMINAL 20-22 AWG	C 2 6 U	1 1 1	Ι.ΟΖ	0.00	2.94	1.10		(0.20)	105 C	20 AWG	20 AWG	20 AWG		N A	N A			
															0.50mm <sup>2</sup>	0.50mm <sup>2</sup>	2TAD, 2TAE	N A			
	9U5T-I442I-CA	1924275-2	0.64 MALE TERMINAL 18 AWG	C 2 6 0	TIN	1.96	1.00	2.94	1.78		(0 20)	105°C	I8 AWG	18 AWG	I8 AWG		N A	N A			
	9031-14421-CA	1924213-2	I 8 AWG	(200	1 1 1	1.90	1.00	2.94	1.70		(0.20)	103 C			0.80mm <sup>2</sup>	0.80mm <sup>2</sup>	2TAD, 2TAE	N A			
	9U5T-I442I-ZA	1924275-5	0.64 MALE TERMINAL 0.13mm <sup>2</sup>	C260	TIN	1.50	0.65	1.82	0.85		(0.20)	105°C				0.13mm <sup>2</sup> 20	N A	2 U A Y			
J2	DU5T-14421-FA 21	1924275-6	0.64 FEMALE TERMINA 2X 0.13mm <sup>2</sup> OR 0.35mm	L C 2 6 0	TIN	1.50	0.80	2.40	1.40		(0.20)	105°C				2 X 0 . I 3 mm <sup>2</sup> 20	FOR 0.35mm <sup>2</sup> 2TAD, 2TAE, 2UAD, 2UAE	FOR 0.13mm <sup>2</sup> 20			

		TEF	RMINAL CRIMP & GRI	P REFERENCE	TABLE					
FORD PART NUMBER	F4 WIRE (	A5 F4	WIRE SIZE	STRIP	C . C . W .	C . C . H . ( mm )	I.C.W.	I.C.H. (mm)	MOTES	
	SPECIFICATION	CODE 19	(M=METRIC)	LENGTH (mm)	( mm )		( mm )		NOTES	
	ESB-MILI23-A	NΑ	22 AWG	4.5-5.0	1.40±0.10	0.90±0.05	1.60±0.05	2.00±0.05		
	ESD-MILIZS-A	IN A	20 AWG	4.5-5.0	I.40±0.10	0.95±0.05	1.60±0.05	2.20±0.05		
9U5T-I442I-BA	WSB-MILI34-AI	NA	22 AWG	4.5-5.0	l.40±0.10	0.90±0.05	1.60±0.05	2.00±0.05		
	WOD MILLION AT	IN A	20 AWG	4.5-5.0	I.40±0.10	0.95±0.05	1.60±0.05	2.20±0.05	SEE NOTE 18	
	ESB-MILI20-A	NΑ	0.35 M 22 AWG	4.5-5.0	1.40±0.10	0.90±0.05	1.60±0.05	2.00±0.05		
		IN A	0.50 M 20 AWG	4.5-5.0	I.40±0.10	0.95±0.05	1.60±0.05	2.20±0.05		
	ESB-MILI23-A	NΑ	I 8 AWG	4.5-5.0	l.60±0.05	l.05±0.05	1.60±0.05	2.25±0.05		
	WSB-MILI34-AI	NA	18 AWG	4.5-5.0	1.60±0.05	1.05±0.05	1.60±0.05	2.25±0.05	SEE NOTE 18	
9U5T-I442I-CA	ESB-MILI20-A	NA	0.80 M 18 AWG	4.5-5.0	1.60±0.05	I.05±0.05	I.60±0.05	2.25±0.05		
9U5T-I442I-ZA	ES-BR33-IA348-AA	2 U A Y	0.13 M/20	4.5-5.0	l.07±0.05	0.68±0.02	I.30±0.05	I.30±0.05	SEE NOTE 18	
^			2X 0.13 M ^	4.5-5.0	1.17±0.05	0.78±0.03	1.60±0.05	1.90±0.05	SFF	
DU5T-14421-FA 2	ES-BR33-IA348-AA	2 U A Y	0.35 M 20	4.5-5.0	l.17±0.05	0.82±0.03	l.60±0.05	2.00±0.05	SEE NOTE 18	

REFERENCE CPSC (180107) PART MUST COMPLY WITH MATERIAL SPECIFICATION WSS-M99P9999-AI TO HELP SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT DRAFTED IN ACCORDANCE WITH FORD MOTOR 3RD ANGLE PROJ DIMENSIONS ARE COMPANY ENGINEERING CAD AND DRAFTING IN MILLIMETERS STANDARDS CURRENT AT INITIAL RELEASE CAD TYPE | CAD LOC. | CAD FILE PRO/E 1924275\_FORD IS MASTER OPER. NO. UNIT DRAWING 9U5T-14421-BA N/A DESIGN DETAIL TITLE JI /2 | DU5T-14421-FA TRMNL WIR RH/LH SNP ON MALE N/AJ5 9U5T-14421-CA SCALE 9U5T-14421-BA PART NUMBER

 $\rightarrow$   $AA \rightarrow$ 

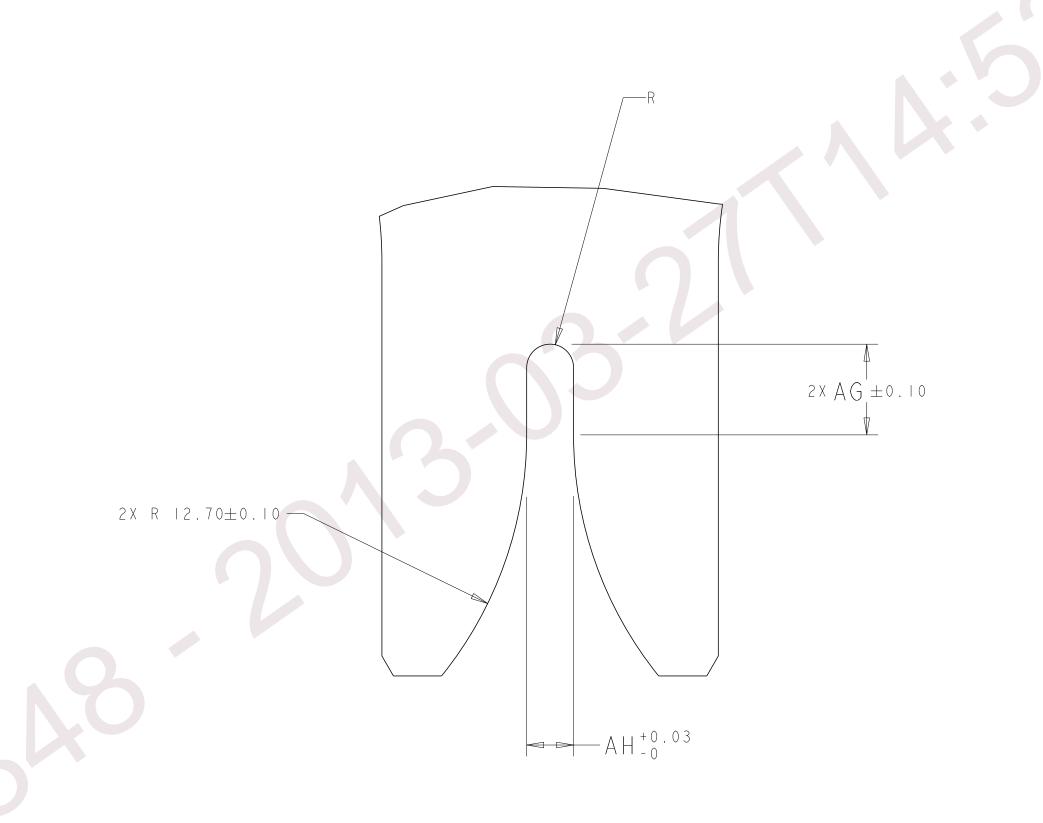
## WIRE CRIMPER scale 8:1

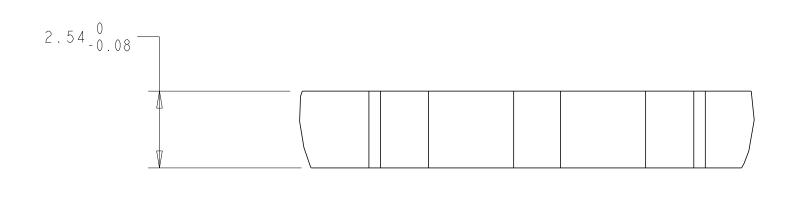


T			\
$3.51\pm0.05$			
V			

J4	0.13mm <sup>2</sup>	0.25	45°	0.29	1.07
USCAR-21 TESTING NOT COMPLETED	2 X 0.13mm <sup>2</sup> OR 0.35mm <sup>2</sup>	0.25	60°	0.31	1.17
	20-22 AWG	0.38	60°	0.36	1.35
	18 AWG	0.38	60°	0.42	1.55
	WIRE SIZE	AC	AD	AE	AF

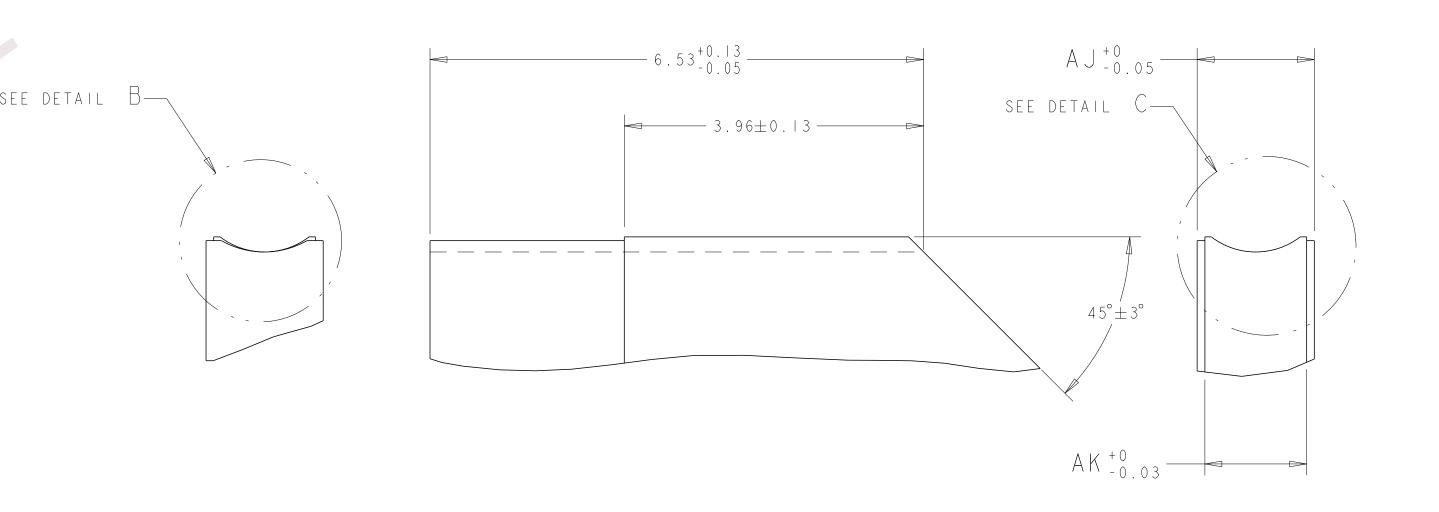
INSULATION CRIMPER scale 8:1

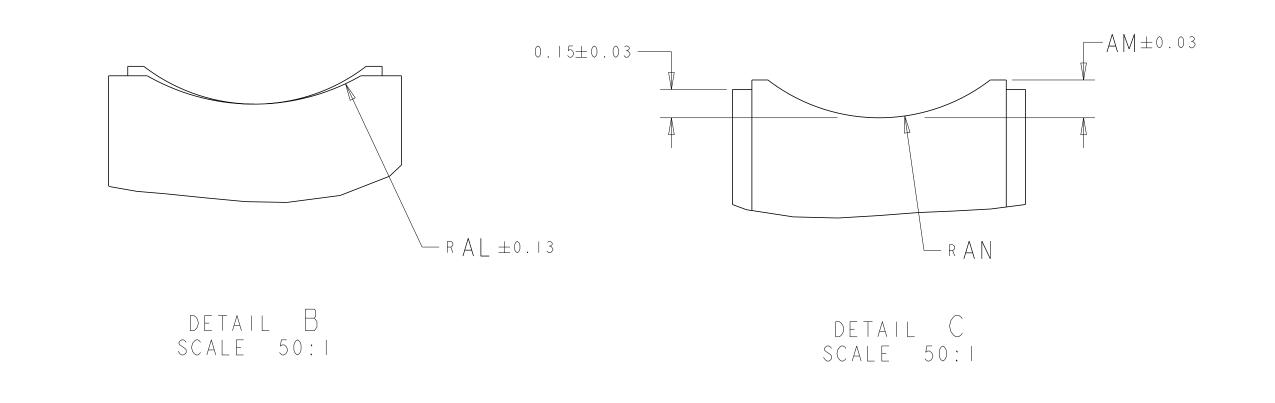




J4	0.13mm <sup>2</sup>	2.00	1.17
USCAR-21 TESTING NOT COMPLETED	2 X 0.13mm <sup>2</sup> OR 0.35mm <sup>2</sup>	3.00	1.55
	20-22 AWG	3.00	1.55
	18 AWG	3.00	1.55
	WIRE SIZE	AG	АН

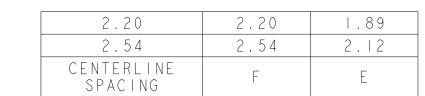
ANVIL scale 20:1

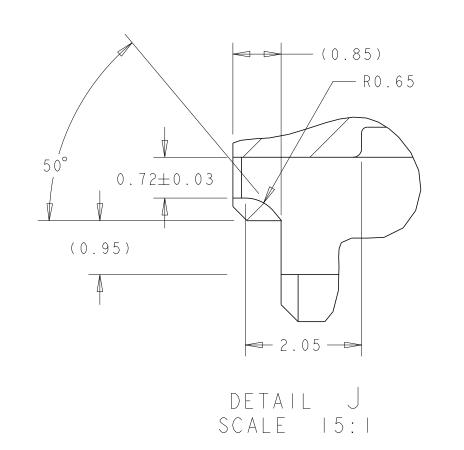


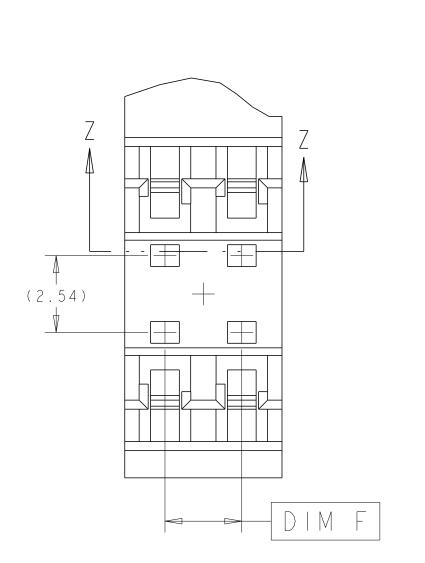


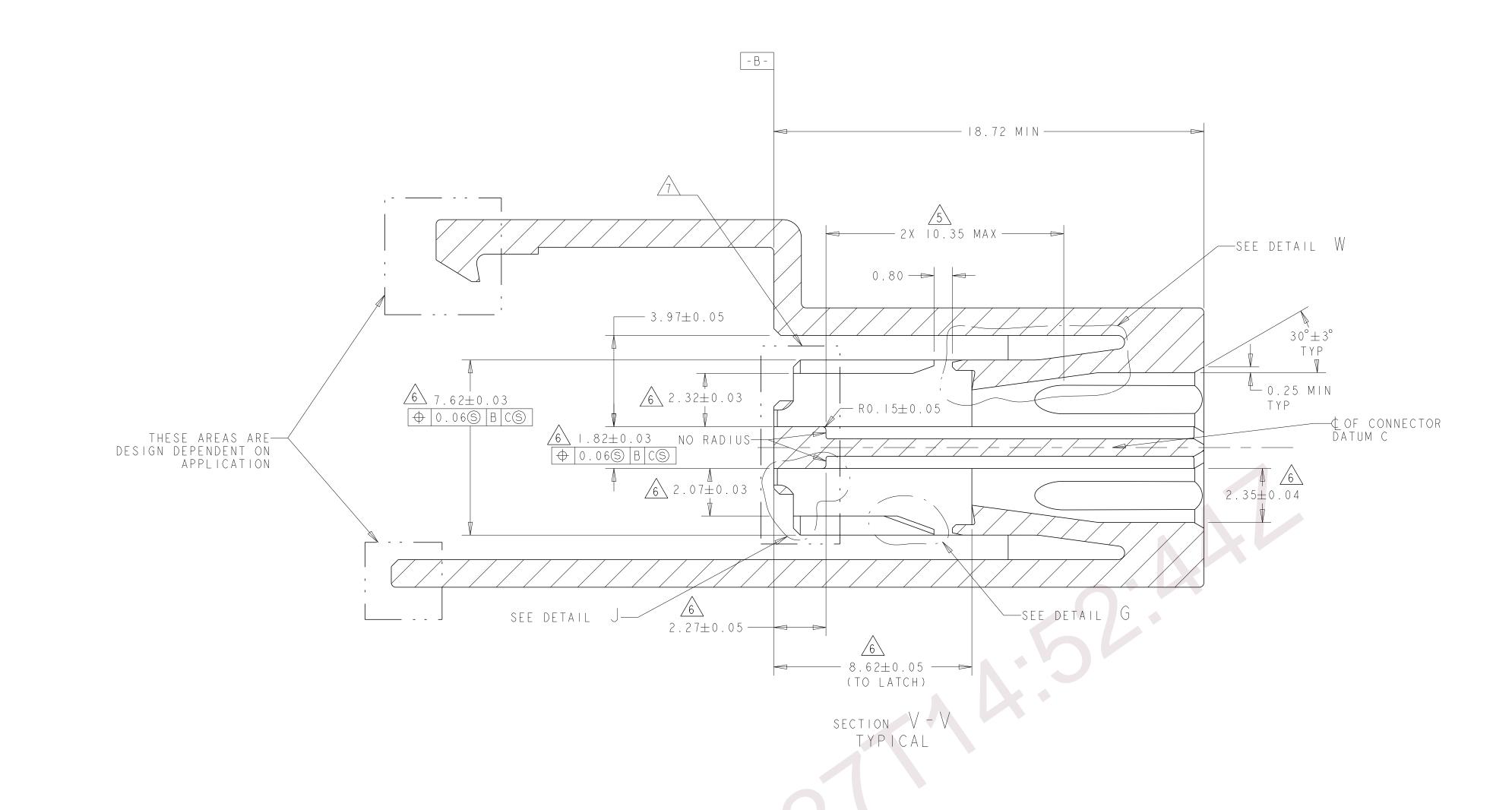
J4	0.13mm <sup>2</sup>	1.17	1.07	0.53	0.10	0.64
USCAR-21 TESTING NOT COMPLETED	2 X 0 . I 3 mm <sup>2</sup> OR 0 . 35 mm <sup>2</sup>	1.55	1.17	1.14	0.25	0.58
	20-22 AWG	1.55	1.35	1.14	0.20	0.96
	18 AWG	1.55	1.55	1.14	0.20	1.14
	WIRE SIZE	AJ	AK	AL	AM	AN

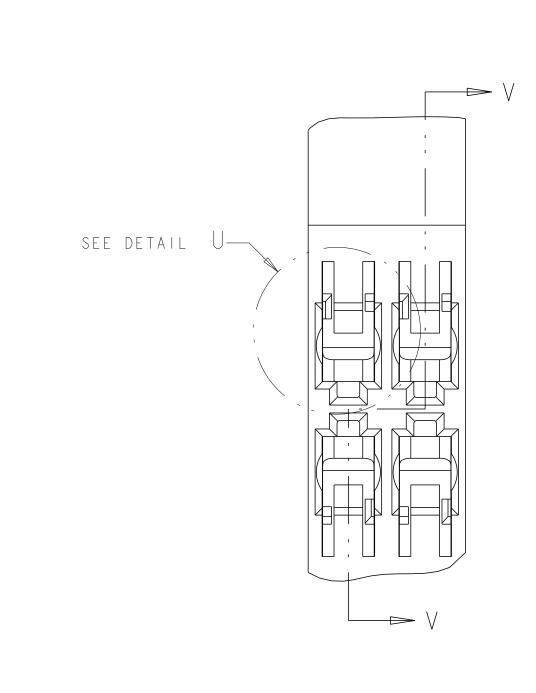


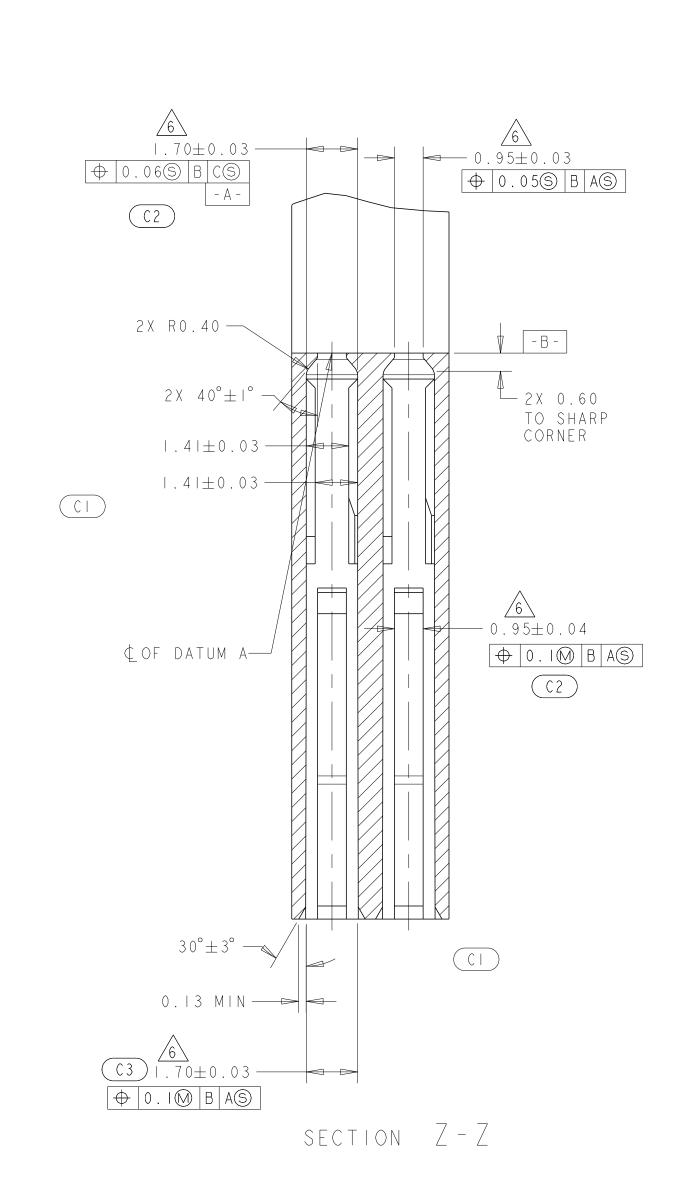


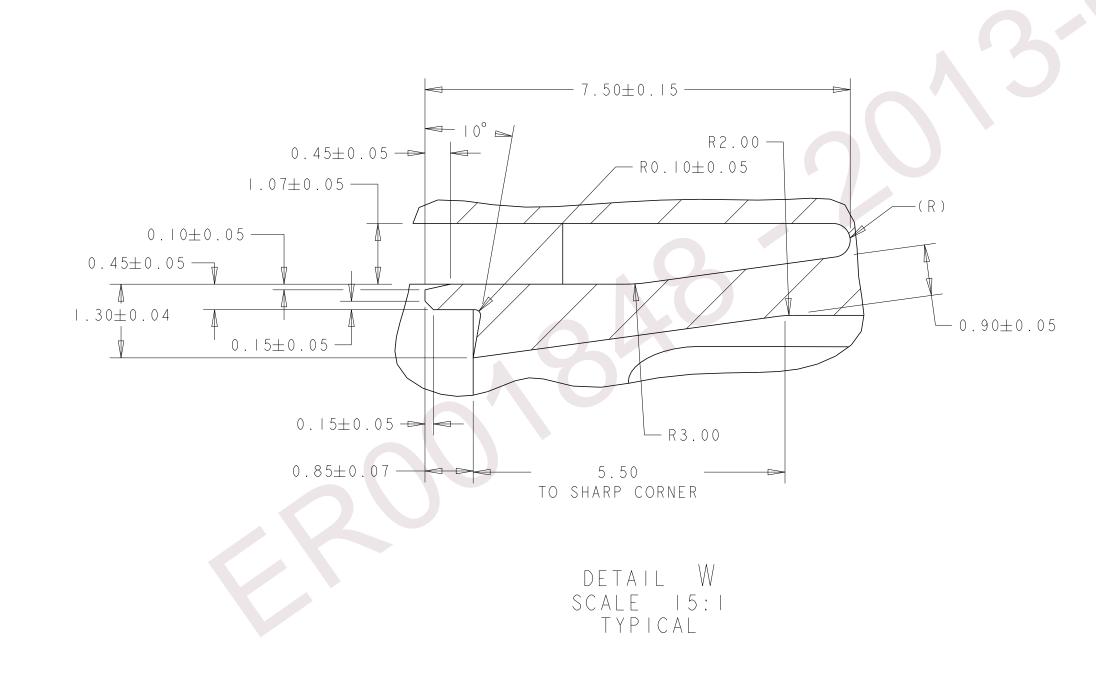


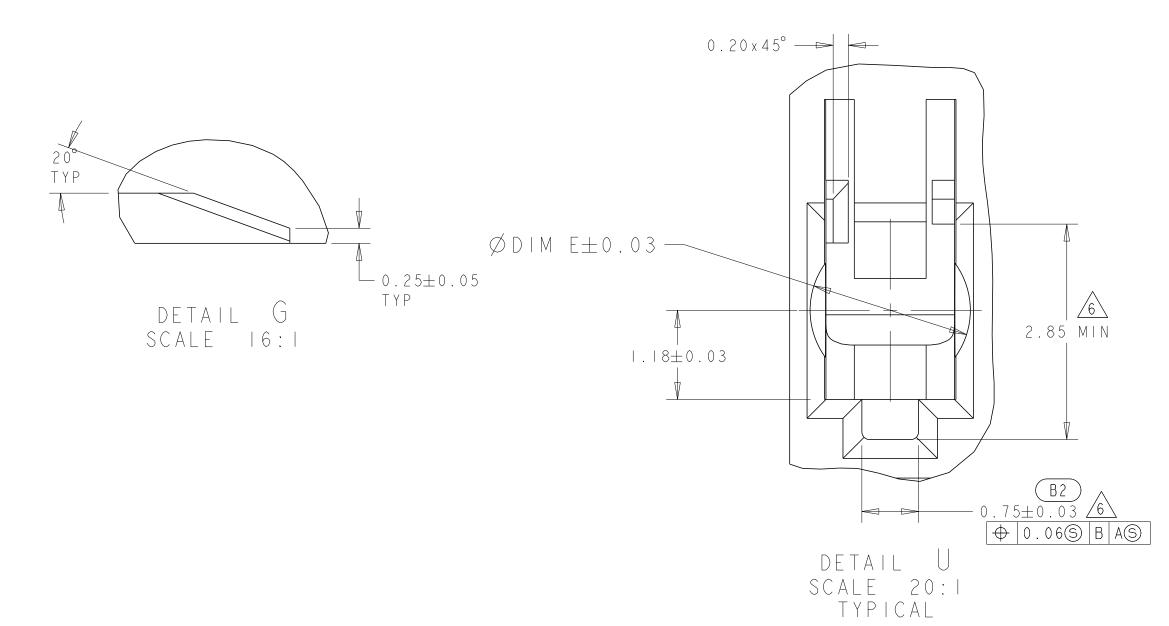


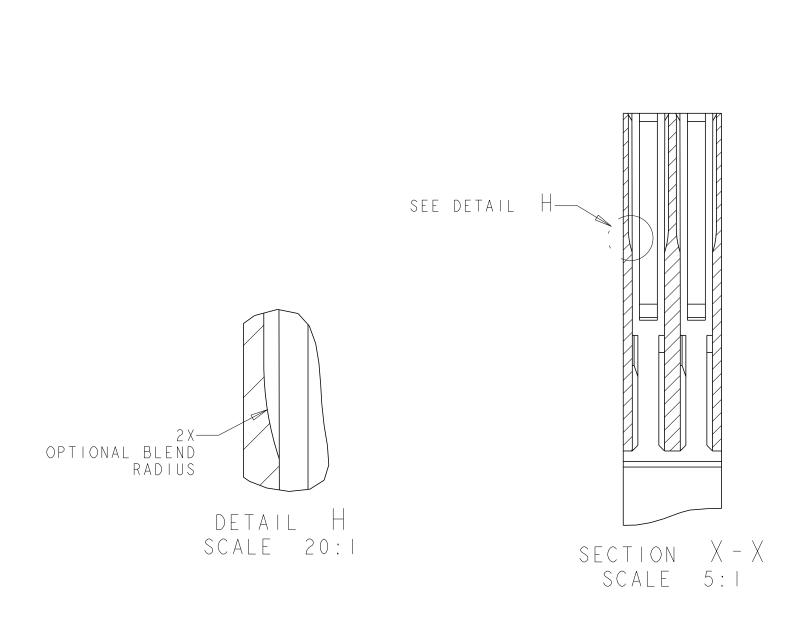












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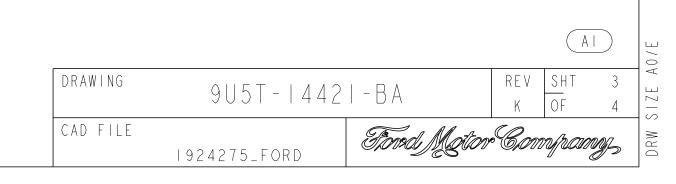
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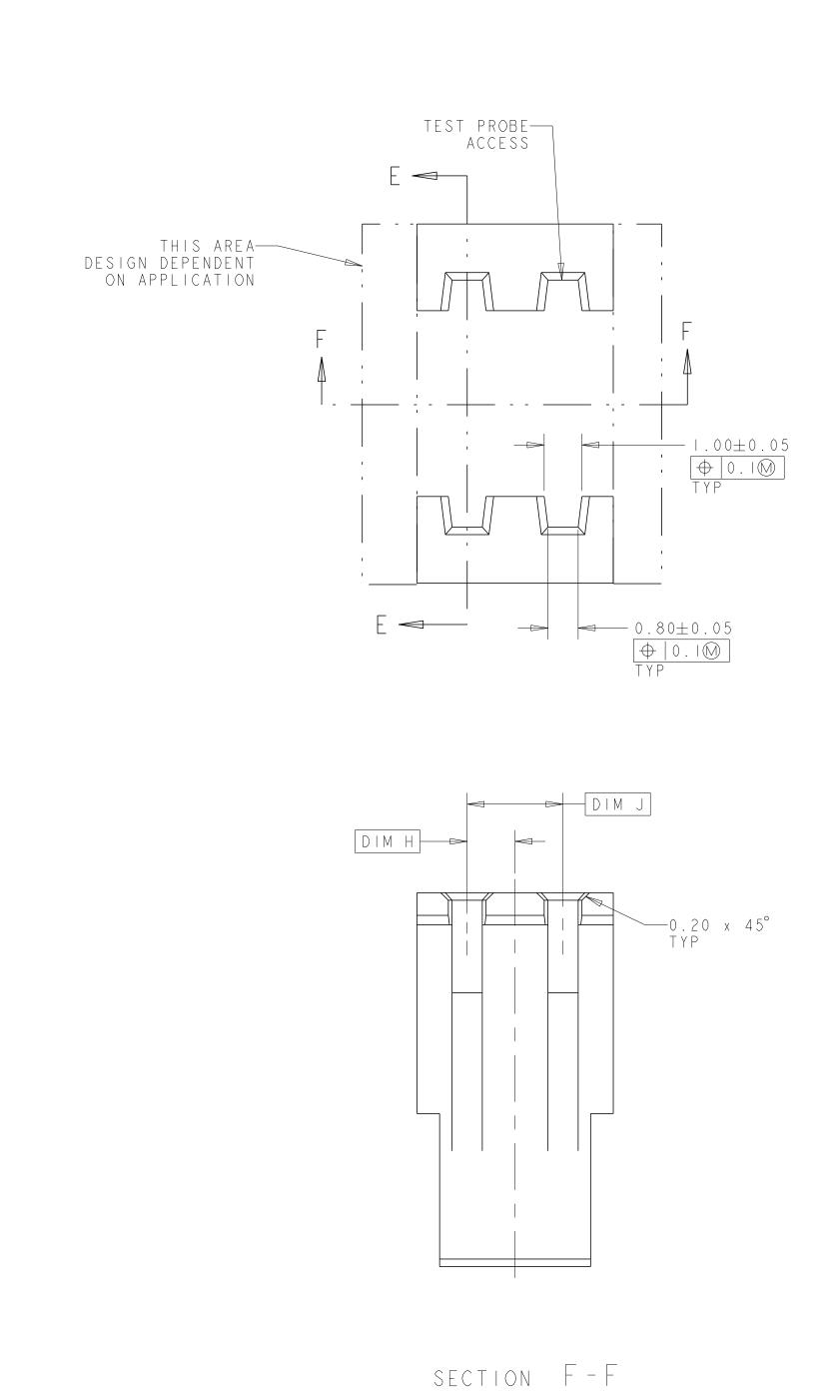
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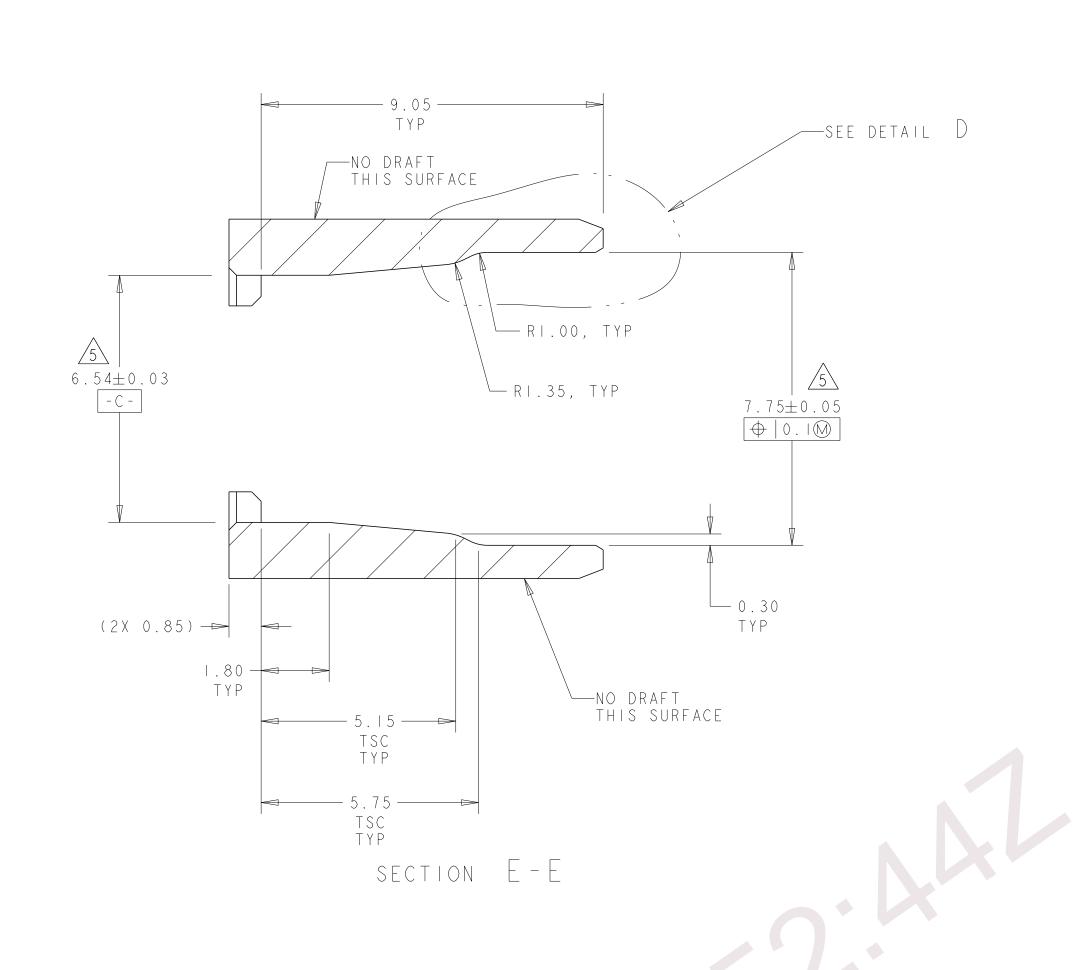
CAVITY DETAIL NOTES

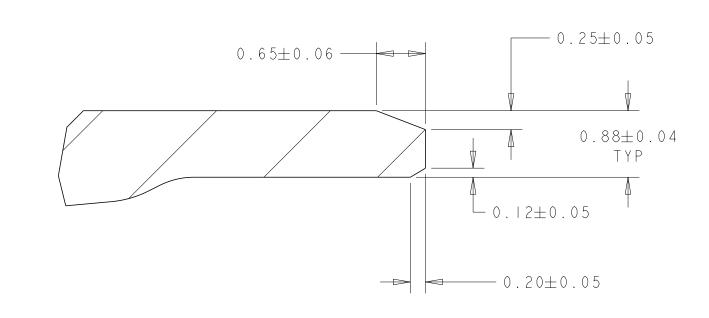
- I. CAVITY DESIGN SHOWN IS BASED ON THE UTILIZATION OF A SPECIFIC MATERIAL (NYLON 6/6 35% GLASS FILLED).
  USER OF THIS THIS CAVITY DESIGN IS RESPONSIBLE FOR ANY NECESSARY MODIFICATIONS NECESSARY FOR A SPECIFIC APPLICATION OR MATERIAL.
- 2. UNLESS SPECIFIED ALL RADIUS TO BE 0.30 MIN
- 3. GENERAL TOLERANCES, ±0.10 ALL TWO PLACES DIMENSIONS,
- ±0°30′ ON ALL ANGULAR DIMENSIONS}

  4. UNDIMENSIONED FEATURES ARE AT THE DISCRETION OF
- THE COMPONENT DESIGNER
- TO FULL DIAMETER
- NOTED DIMENSIONS ARE CONSIDERED
  - NECESSARY FOR PROPER PART
    FUNCTION (IIX). OTHER DIMENSIONS ARE CONSIDERED AS
    REFERENCE AND MAY NEED TO VARY BASED ON SPECIFIC
    APPLICATIONS AND REQUIREMENTS
- THIS AREA DESIGN DEPENDENT ON ALIGNMENT PLATE.
  ALIGNMENT PLATE RECOMMENDED FOR LARGE CIRCUIT
  CONNECTORS.









DETAIL D SCALE 20:1 TYPICAL

2.20	1.10	2.20
2.54	1.27	2.54
CENTERLINE SPACING	Н	J

## TPA DETAIL NOTES

- I. TPA DESIGN SHOWN IS BASED ON THE UTILIZATION OF A SPECIFIC MATERIAL (NYLON 6/6, 35% GLASS FILLED). USER OF THIS THIS CAVITY DESIGN IS RESPONSIBLE FOR ANY NECESSARY MODIFICATIONS NECESSARY FOR A SPECIFIC APPLICATION OR MATERIAL.
- 2. UNLESS SPECIFIED ALL RADIUS TO BE 0.20±0.10
- 3. GENERAL TOLERANCES,  $\pm$ 0.10 ALL TWO PLACES DIMENSIONS,  $\pm$ 0 $^{\circ}$ 30 $^{\prime}$  ON ALL ANGULAR DIMENSIONS
- 4. UNDIMENSIONED FEATURES ARE AT THE DISCRETION OF THE COMPONENT DESIGNER
- NOTED DIMENSIONS ARE CONSIDERED NECESSARY FOR PROPER PART FUNCTION (2X). OTHER DIMENSIONS ARE CONSIDERED AS REFERENCE AND MAY NEED TO VARY BASED ON SPECIFIC APPLICATIONS AND REQUIREMENTS

ASSEMBLY DETAIL

