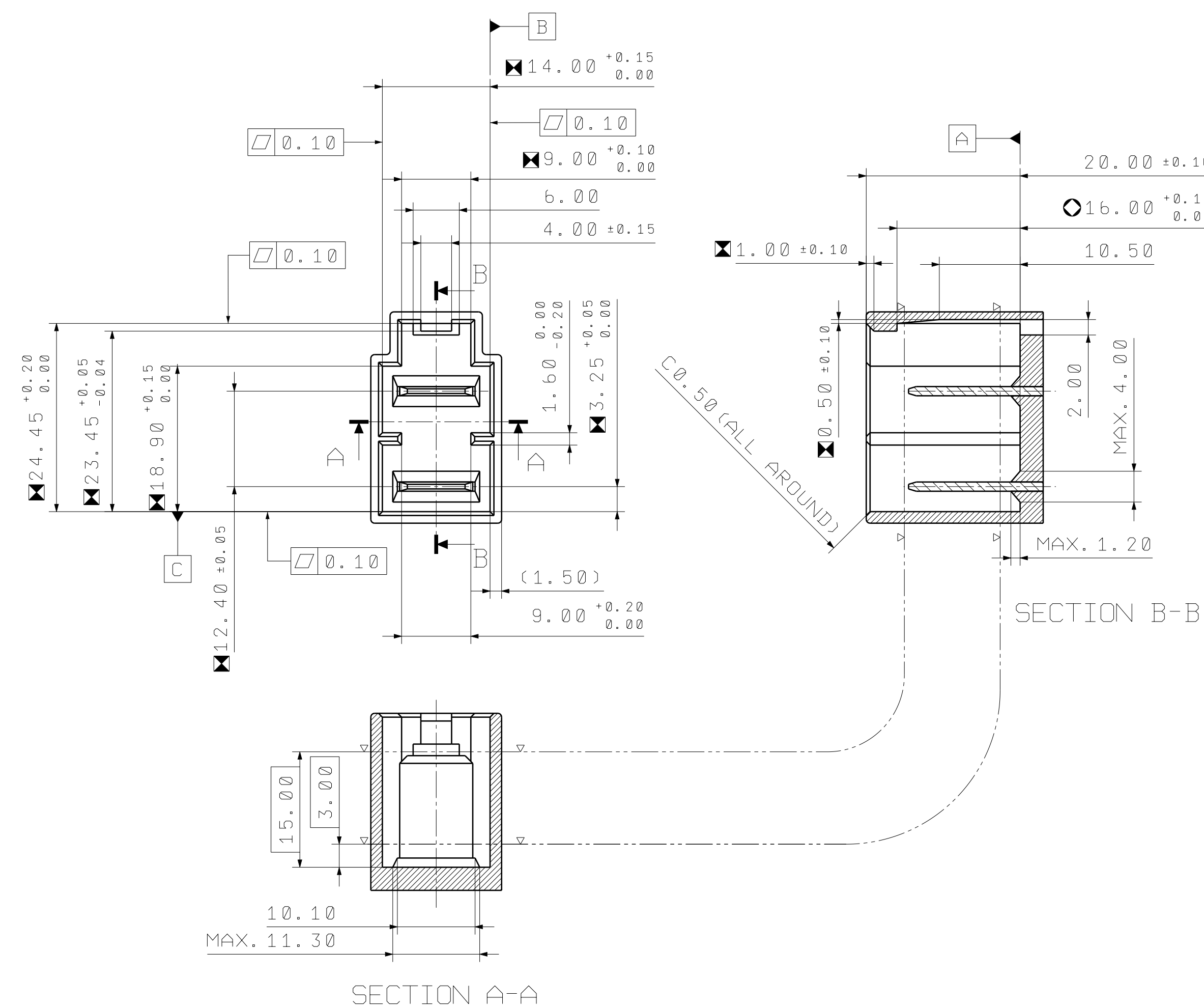
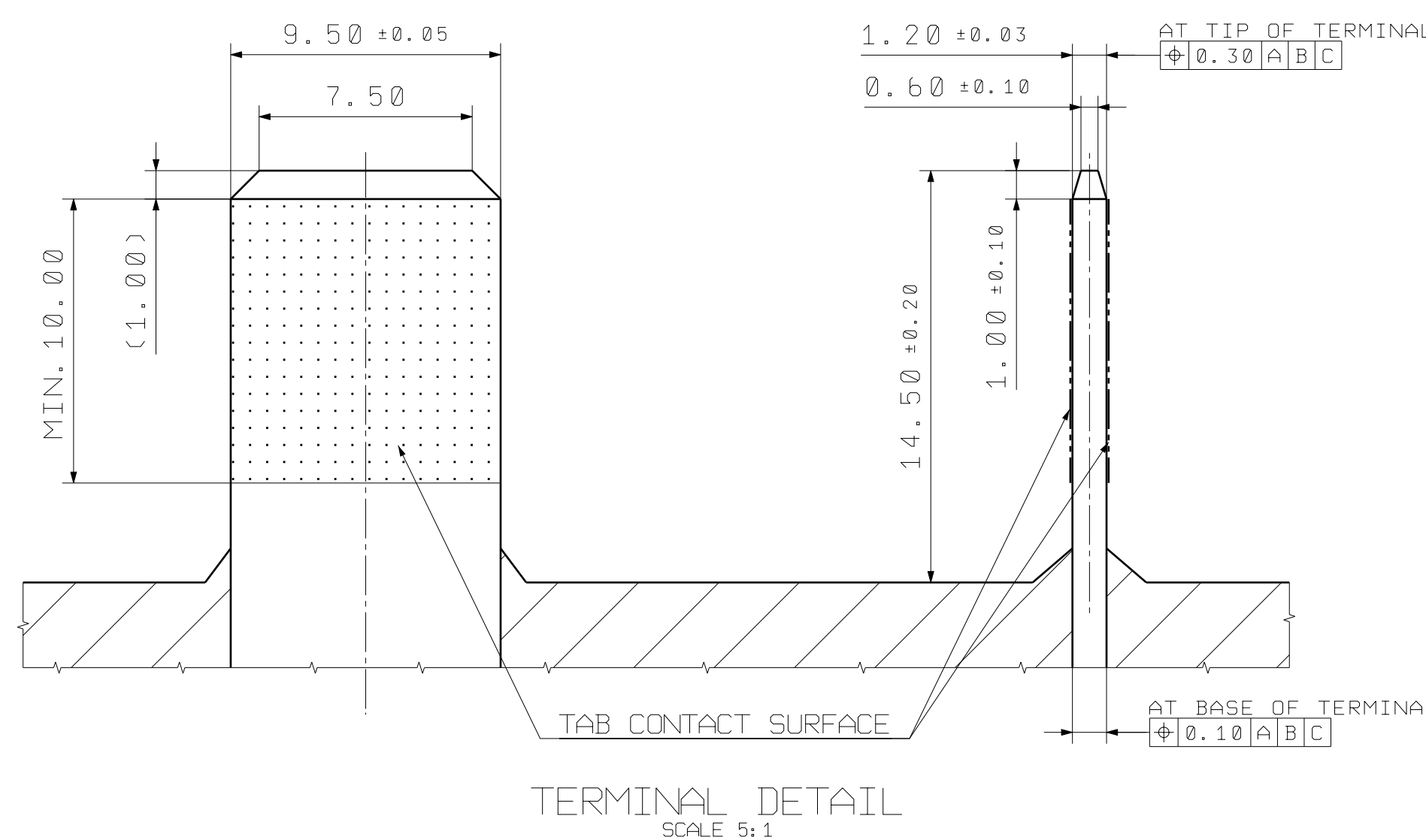


A1 CONNECTOR INTERFACE



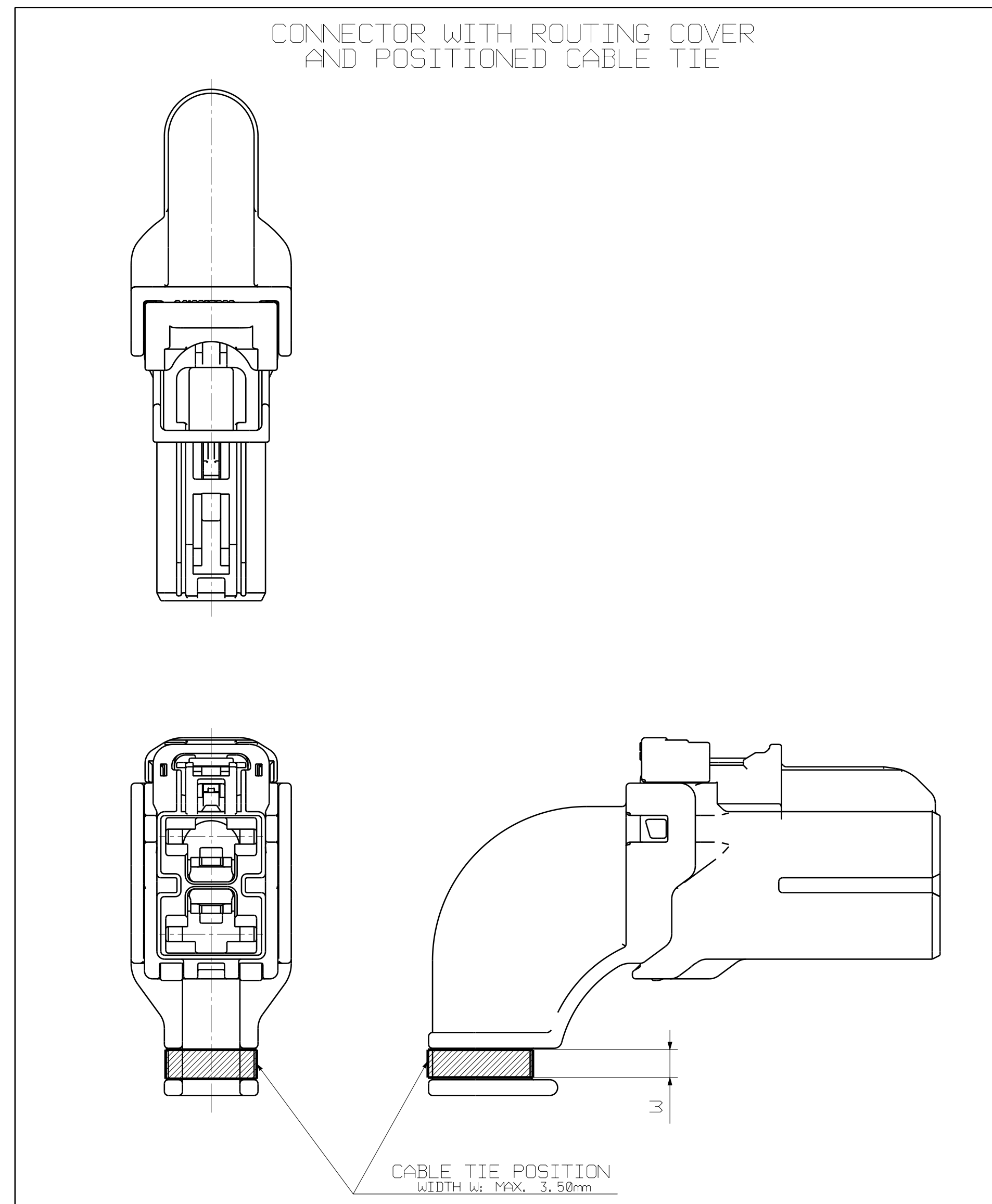
NOTES :

1. UNLESS OTHERWISE SPECIFIED ALL RADII TO BE 0.50mm.
2. PRODUCT MUST BE FREE OF FLASH AND IMPREFFECTIONS THAT MIGHT AFFECT FIT OR FUNCTION.
FINAL PRODUCT MUST BE FREE OF FLITTERS AND BEADING, OR ANY OTHER METAL OR NON-METAL PARTICLES, WHICH ARE RESULT OF MOLDING, STAMPING, OR ASSEMBLING PROCESS, OR ANY KIND OF MANIPULATION WITH THE PRODUCT, THAT MAY AFFECT FIT OR FUNCTION (ELECTRICAL, MECHANICAL, SEALING, ETC.).
3. ALL DEFINED CHARACTERISTIC HAVE TO BE ASSURED IN COMPLETE DELIVERY CHAIN.
4. ALL DRAFT ANGLES OF THE TOOLING DIE MUST BE WITHIN THE SPECIFIED TOLERANCE.
5. RECOMMENDED HOUSING MATERIAL: PBT-GF50 OR MATERIAL THAT PROVIDES SIMILAR PERFORMANCE TO FULFILL ALL FUNCTION REQUIRED.
6. TAB MATERIAL: Cu ALLOY WITH CONDUCTIVITY THAT FITS TO THE UNIT SIDE MANUFACTURER ELECTRICAL PERFORMANCE REQUIREMENTS.
7. PLATING:
TIN: ELECTRODEPOSITED NICKEL (Ni)
UNDERLAYER MATTE (STRESS FREE) PREPLATING 1-2 μ m
CONTACT AREA: ELECTRODEPOSITED TIN (Sn) PREPLATING 1-3 μ m.
Ra<0.35 μ m
8. FOR THE CORRECT TAB MATERIAL SELECTION THE FINAL APPLICATION AND IT'S ATTACHMENT AREAS HAS (HAVE) TO BE CONSIDERED BY THE DESIGN OWNER. MATING PART SHALL HAVE THE SAME PLATING.
10. ~~X~~ DENOTES DIMENSION NECESSARY FOR PROPER PART FUNCTION.
MANUFACTURING MUST ASSURE THAT DIMENSION IS MAINTAINED FOR THE LIFE OF TOOL. DIMENSION SHALL BE USED FOR REQUALIFICATION.
11. $\odot$ DENOTES SIGNIFICANT CHARACTERISTIC THAT MUST BE INCLUDED IN CONTROL PLAN. CHECK METHOD TO BE DETERMINED BY MANUFACTURING SOURCE (I.E. DIMENSIONAL, VISUAL, GAUGE, ETC.).
12. ∇ FOR GENERAL GEOMETRICAL TOLERANCE SEE TABLE (ECCENT-ECCENTRICITY)
13. ∇ DENOTES MEASURING PLANES.
14. MAX. ALLOWED WARPAGE 0.1 FROM DEFINED DIMENSION FROM MEASURING PLANE.

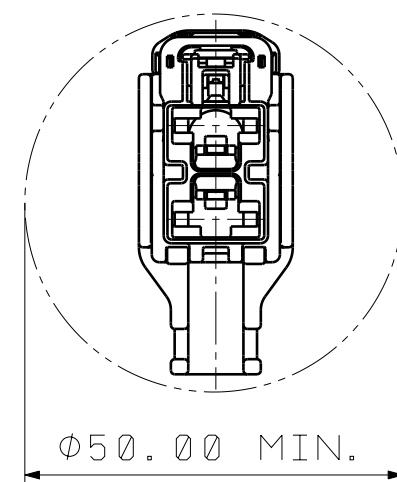
GENERAL TOLERANCE							
	10MAX	50MAX	100MAX	250MAX	250OVR	ANGLE	ECCENT
(A)	±0.15	±0.2	±0.3	±0.5	±0.75	±30°	±0.1
B	±0.2	±0.3	±0.55	±0.95	±1.4	±30°	±0.1
C	±0.3	±0.5	±0.8	±1.4	±2	±30°	±0.15

APPLICABLE COMPONENTS						
ITEM	DESCRIPTION	MANDATORY (YES/NO)	TERMINAL CAVITY MIN/MAX ØD	PLATING-MATERIAL	FORD COMPONENT PART NO.	YAZAKI COMPONENT PART NO.
1	G294/9.5mm TERMINAL	NO	Ø6.45x11.55	COPPER ALLOY	N/A	N/A
2	ROUTING COVER	YES	N/A	PBT	HU5T-14N003-EA	7174-1171-30

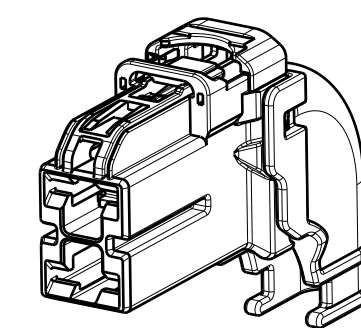
ITEM	PIA DESCRIPTION	COLOR/PLATING	FORD COMPONENT PART NO.	YAZAKI COMPONENT PART NO.	MATERIAL/SPEC NO.	RECYCLING CODE	APPROX. WEIGHT	NUMBER OF ITEMS REQUESTED	
1	HOUSING (F) CODE A	BLUE	N/A	7189-5053-90	PBT/US-M99P23-C	>PBT<		1	
2	HOUSING (F) CODE B	BLACK	N/A	7189-5054-30	PBT/US-M99P23-C	>PBT<			1
3	CPA	RED	N/A	7158-6069-50	PBT-GF15/US-M99P23-C	>PBT-GF15<		1	1



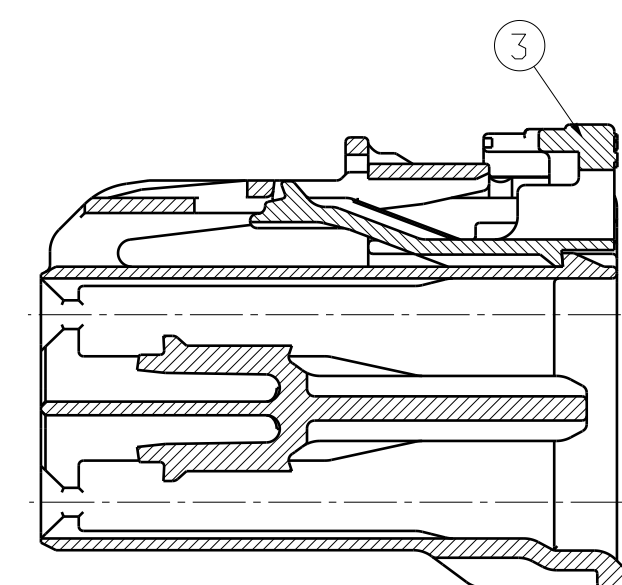
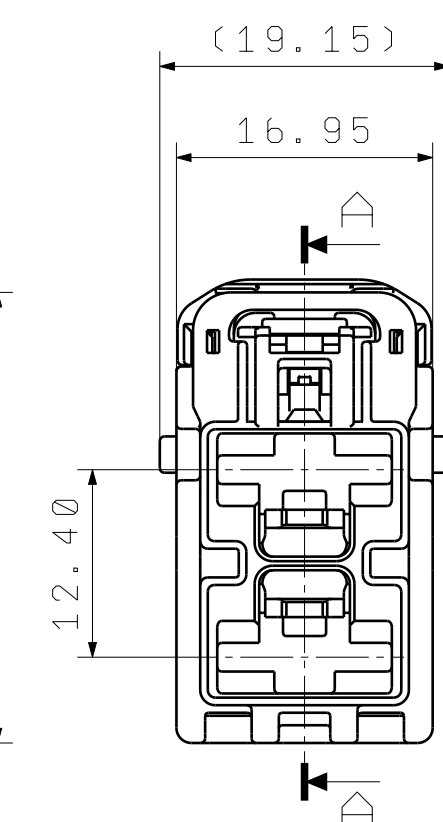
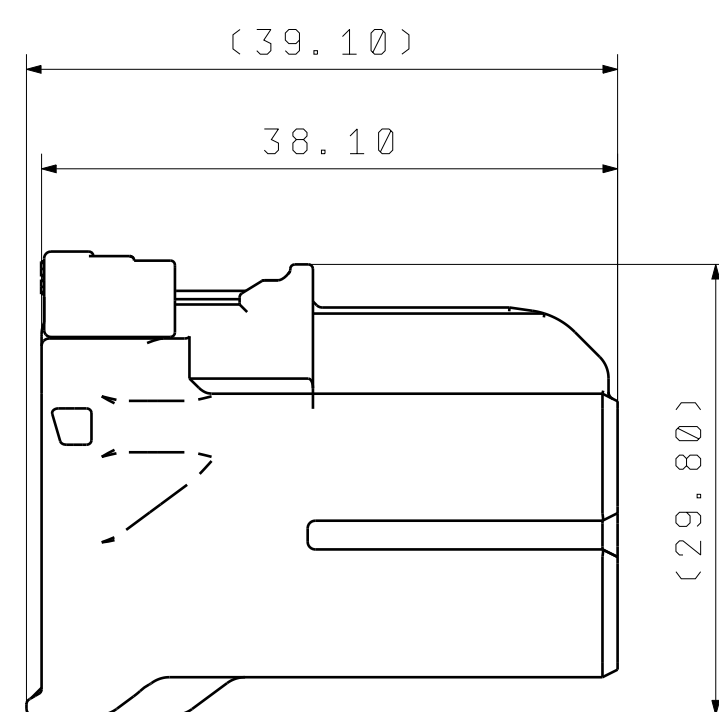
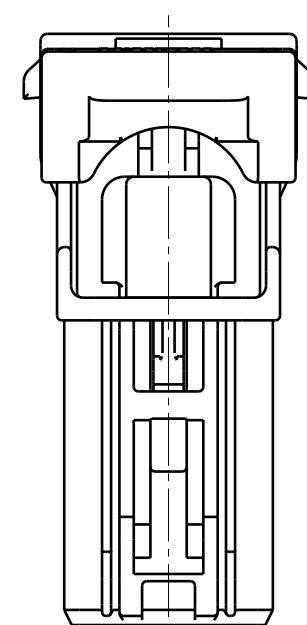
CONNECTOR ASSEMBLY CHART					
ASSEMBLY PART NO.'S			MATING COMPONENT		
FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.	MAX. TEMP.	VIBRATION CLASS	FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.
N/A	7289-5053-90	100°C	V1	DUST-144A59-NA	7122-4129-90
HUST-14409-NA	7289-5054-30	100°C	V1	WAT-144068-DA WAT-144059-EA	7122-4123-30 7122-4320-30



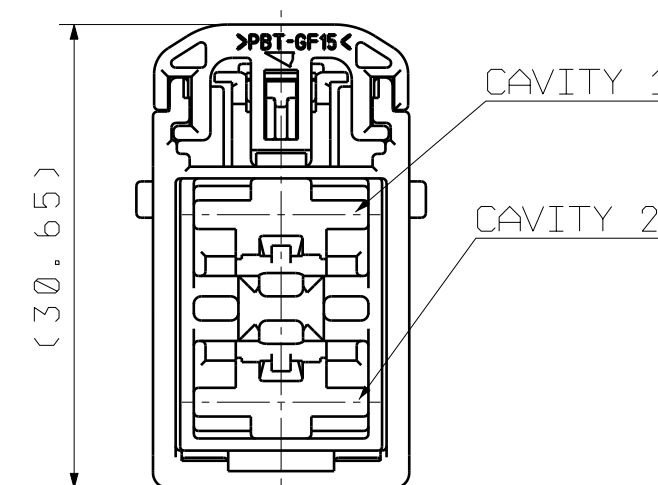
MINIMUM THROUGH
HOLE DIMENSION
(1.0 mm CLEARANCE AROUND)
SCALE 1:1



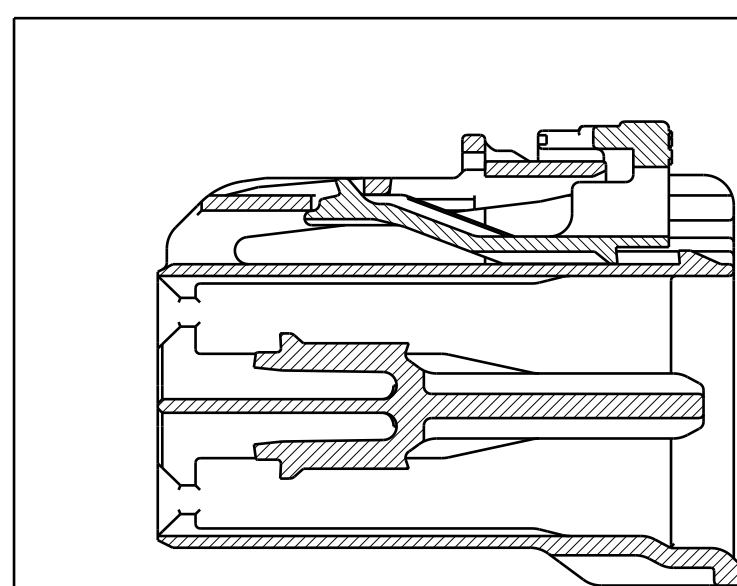
ISOMETRIC VIEW
SCALE 1:1



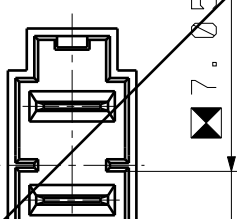
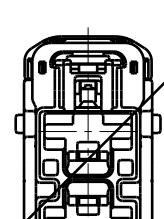
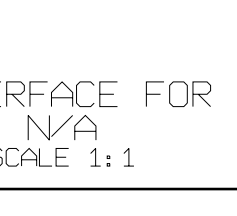
SECTION A-A
(WITH CPA)



REAR VIEW
(WIRE INSERTION VIEW)



CPA IN FULL SET POSITION

CODE A  7.05 ± 0.10 INTERFACE FOR N/A SCALE 1:1	CODE A  7.05 ± 0.10 N/A SCALE 1:1	CODE A  N/A PACKAGING MODEL FOR REFERENCE ONLY SCALE 1:1
CODE B  8.65 ± 0.10 INTERFACE FOR HU5T-14489-NA (SCALE 1:1)	CODE B  8.65 ± 0.10 HU5T-14489-NA (SCALE 1:1)	CODE B  HU5T-14489-NA PACKAGING MODEL FOR REFERENCE ONLY (SCALE 1:1)

NOTES:

1. N/A
2. N/A
3. MAXIMUM MATING FORCE FULLY POPULATED WITH TIN TERMINALS = 75 [N].
4. N/A
5. N/A
6. CONNECTOR IS RATED AS ERGONOMIC CLASS 3 BASED ON USCAR-25 REV 1.
CONNECTOR PUSH SURFACE AREA IS 341mm².
7. N/A
8. ALL PLASTIC PARTS MUST HAVE MATERIAL IDENTIFICATION SYMBOLS CLEARLY MARKED, WHEREVER PACKAGE SIZE PERMITS.
9. ENGINEERING APPROVAL REQUIRED FOR ALL SOURCING AND TOOLING OF THIS PART
10. FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING RELEASE.
11. ENGINEERING APPROVAL OF SAMPLE FROM EACH SUPPLIER IS REQUIRED
PRIOR TO AUTHORIZATION OF PART PRODUCTION.
12. CHANGES IN DESIGN COMPOSITION OR PROCESSING FROM THE PART
PREVIOUSLY APPROVED FOR PART PRODUCTION REQUIRES PRIOR
ENGINEERING APPROVAL.
13. PARTS ARE TO BE FREE OF SCRATCHES, DISCOLORATION, SALT RESIDUE OR OTHER
IMPERFECTIONS THAT MAY AFFECT FUNCTION OR FIT OF PART.
14. DIMENSIONS IN PARENTHESIS ARE FOR REFERENCE.

GENERAL TOLERANCE							
	10MAX	50MAX	100MAX	250MAX	250OVR	ANGLE	ECCENT
A	±0.15	±0.2	±0.3	±0.5	±0.75	±30°	±0.1
B	±0.2	±0.3	±0.55	±0.95	±1.4	±30°	±0.1
(C)	±0.3	±0.5	±0.8	±1.4	±2	±30°	±0.15

THE MASTER SOURCE OF INFORMATION FOR THIS DRAWING IS IN
A PE COMPUTER DATABASE. CHANGES ARE NOT PERMITTED WITHOUT
PRIOR CONSENT OF THE RELEVANT ENGINEERING CAD ACTIVITY.

LTRS		REVISIONS	
ORIGINATOR	CHECKER	ENGR APP	MATL APP
RELEASED HUST-14489-NA			
AELE-E-11784007-305		28012015	
YAZAKI	WPAZEUS	ASANKOV1	
REDRAWN TO LATEST DRAWING STANDARDS AFTER FIRST REVISION			
A1: UPDATED CONNECTOR INTERFACE			
AELE-E-11784007-411		20170206	
YAZAKI	WPAZEUS	ASANKOV1	
B1: ADDED PART NUMBERS IN TABLE			
AELE-E-11784007-462		20171115	
YAZAKI	WPAZEUS	ASANKOV1	

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P (F) UNSEALED 9.5 mm CONNECTOR WITH ROUTING COVER			
PLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD			
A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT			
CORDANCE WITH FORD MOTOR			
ENGINEERING CAD AND DRAFTING			
SION28.1			
CAD FILE		HU5T-14489-N-DWG-01	
DRAWING		HU5T-14489-NA	
TITLE		SLV WIR CONN FEM	
DIVISION		N/A	
PLANT		N/A	
DATE		50128	
TAIL		3RD ANGLE PROJ.	
SEC		• DIMENSIONS ARE IN MILLIMETERS	
UNIT		IS MASTER	
V/A		SH 1	
ANIC		OF 1	
FETY		RA/LH	
V/A		N/A	