



Part Name <u>SLV WIR CONN FEM</u>		Cust. Part Number <u>HU5T-14489-NA</u>	
Shown on Drawing No. <u>HU5T-14489-NA</u>		Org. Part Number <u>7289-5054-30</u>	
Engineering Change Level <u>AELE-E-11784007-4b2</u>		Dated <u>15/11/2017</u>	
Additional Engineering Changes <u>N/A</u>		Dated <u>N/A</u>	
Safety and/or Government Regulation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No. <u>N/A</u>	Weight (kg) <u>0,0071</u>	
Checking Aid No. <u>N/A</u>	Checking Aid Engineering Change Level <u>N/A</u>	Dated <u>N/A</u>	
<b>ORGANIZATION MANUFACTURING INFORMATION</b>		<b>CUSTOMER SUBMITTAL INFORMATION</b>	
Yazaki Saltano de Ovar, PE, Ida <u>454241126</u>		NURSAN	
Organization Name & Supplier/Vendor Code		Customer Name / Division	
Avenida D. Manuel I, Zona Industrial de Ovar		Buyer/Buyer Code	
Street Address		Ford	
Ovar	3880-109	Portugal	
City	Region	Postal Code	Country
<b>MATERIALS REPORTING</b>		Application	
Has customer-required Substances of Concern information been reported?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a	
Submitted by IMDS or other customer format:		<b>IMDS</b>	
		<b>IMDS ID: 560060075/1</b>	
Are polymeric parts identified with appropriate ISO marking codes?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> n/a	
<b>REASON FOR SUBMISSION (Check at least one)</b>			
<input type="checkbox"/> Initial submission	<input type="checkbox"/> Change to Optional Construction or Material		
<input type="checkbox"/> Engineering Change(s)	<input type="checkbox"/> Supplier or Material Source Change		
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing		
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts produced at Additional Location		
<input type="checkbox"/> Tooling Inactive > than 1 year	<input checked="" type="checkbox"/> Other - please specify below		
<b>Customer Request</b>			
<b>REQUESTED SUBMISSION LEVEL (Check one)</b>			
<input type="checkbox"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.			
<input checked="" type="checkbox"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer.			
<input type="checkbox"/> Level 3 - Warrant with product samples and complete supporting data submitted to customer.			
<input type="checkbox"/> Level 4 - Warrant and other requirements as defined by customer.			
<input type="checkbox"/> Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.			
<b>SUBMISSION RESULTS</b>			
The results for <input checked="" type="checkbox"/> dimensional measurements	<input type="checkbox"/> material and functional tests	<input type="checkbox"/> appearance criteria	<input type="checkbox"/> statistical process package
These results meet all drawing and specification requirements: <input checked="" type="checkbox"/> Yes		<input type="checkbox"/> NO (If "NO" - Explanation Required)	
Mold / Cavity / Production Process <u>Mold PI-1 / 6 cavities</u>			
<b>DECLARATION</b>			
I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of <b>9.800 / 8</b> 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.			
<b>EXPLANATION/COMMENTS:</b>			
Is each Customer Tool properly tagged and numbered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> n/a			
Organization Authorized Signature <u>Graça Ferreira</u>		Date <u>25 January 2023</u>	
Print Name <u>Graça Ferreira</u>	Phone No. _____	FAX No. _____	
Title <u>QE</u>	E-mail <u>tdc@yazaki-europe.com</u>		
<b>FOR CUSTOMER USE ONLY (IF APPLICABLE)</b>			
PPAP Warrant Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> Rejected <input type="checkbox"/> Other _____			
Customer Signature _____		Date _____	
Print Name _____	Customer Tracking No. (optional) _____		

	<h1>TEST REPORT</h1>	Report no.:
		LKE-Z22-000210
<b>PTC Laboratory</b> Av. D. Manuel I - Zona Industrial de Ovar 3880-109 Ovar - Portugal		Revision no: N

C U S T O M E R	Name:	YSE-M - Qualidade		
	Address:	Av. D. Manuel I - Zona Industrial de Ovar		
		3880-109 Ovar		
		Portugal		
	Order no. request or test request no.	KQE-Z21-8382	Date :	21-04-2021
	Distribute to:	Graça Ferreira		
	Delivery type:	e-mail		
	Samples to be resend:	NO		

L O C A L	PTC-Lab test request no.:	LRE-Z21-05224		
	Tests done in:			
		PTC-Lab:	YES	Other:
	Environmental conditions <sup>(NA)</sup> :			
	Temperature:	19,6°C	Relative Humidity:	63,3%



S A M P L E	Name:	SLV WIR CONN FEM		
	Material:	---	Other important data:	
	Supplier:	YSE-M		
	Supplier no.:	7289-5054-30		
	Yazaki no.:	7289-5054-30	Car Maker:	Ford
	Customer no.:	---		
Customer Information field				


T E S T	Specification/Method/Procedure:	See description on the following pages		
	Spec./Met./Proc. Level or issue:	See description on the following pages		
	Operations performed:	See description on the following pages		
	Anomalies occurred:	NO		
	Test equipment used:			
		Microscope   D1Q-0006 - calibration valid until 02-2022		
				

TEST RESULTS: see following pages.

**Items marked with (NA) are out of the accreditation scope.**

**Expressed opinions in this report are not enclosed in the accreditation scope.**

N	10-01-2022	Issue	 Rui Fonseca	 05-01-2022 Emília Cunha
Revision no.	Date	Revision description	p/ Approved Technical Respons.	Prepared / Date Operator

 <b>PTC Laboratory</b> Av. D. Manuel I - Zona Industrial de Ovar 3880-109 Ovar - Portugal	<b>TEST REPORT</b> <b>(Continuation)</b>	<b>Report no.:</b> <b>LKE-Z22-000210</b>
		Revision no: N

### 1. Dimensional analysis.

(According with method EA-EN-OPT-xx-P-013 Level 0.00 of 18/APR/2017 and with specification HU5T-14489-NA; Level AELE-E-11784007-462 of 2017-11-15.)

**1.1. Test performed on:** 28-12-2021 to 05-01-2022

#### 1.2. Sampling:

1.2.1. Number of tested samples: 6

1.2.2. Other information:

Die No. Conn: PI-1

Volume Conn: ---

Cavs.: 6/8

Volume F/H: ---

#### 1.3. Performed operations:

##### - Description:

- Fix the sample on the equipment table.
- Dimensional analysis.

#### 1.4. Results:

Dim No	Nominal Value	Upper Tol.	Upper Limit	RESULTS (mm)						O K	N O K
		Lower Tol.	Lower Limit	3	4	5	6	7	8		
1	(19,15)			19,158	19,099	19,131	19,127	19,152	19,102		
2	16,95	+0,5	17,450	16,995	16,951	16,962	16,959	16,993	16,969	X	
		-0,5	16,450								
3	12,40	+0,5	12,900	12,310	12,324	12,321	12,308	12,311	12,308	X	
		-0,5	11,900								
4	(30,65)			30,621	30,625	30,591	30,659	30,641	30,637		
5	(39,10)			38,907	38,925	38,939	38,932	38,918	38,914		
6	38,10	+0,5	38,600	37,951	37,926	37,934	37,914	37,936	37,916	X	
		-0,5	37,600								
7	(29,80)			29,719	29,725	29,711	29,744	29,796	29,725		

**1.5. Legend:** Passed (OK) - The test results fulfill the acceptance criteria.

Failed (NOK) - The test results do not fulfill the acceptance criteria.

**1.6. Remarks:** The results are the average of three measurements performed on each sample.  
The result is considered to conform to the acceptance criteria. A probability of a False Acceptance (PFA) or False Rejection (PFR) is 50% against the acceptance criteria.

#### 1.7. Global uncertainty of measurement (mm):

**2D Microscope (D1Q-0006):**  $\pm 0,007$

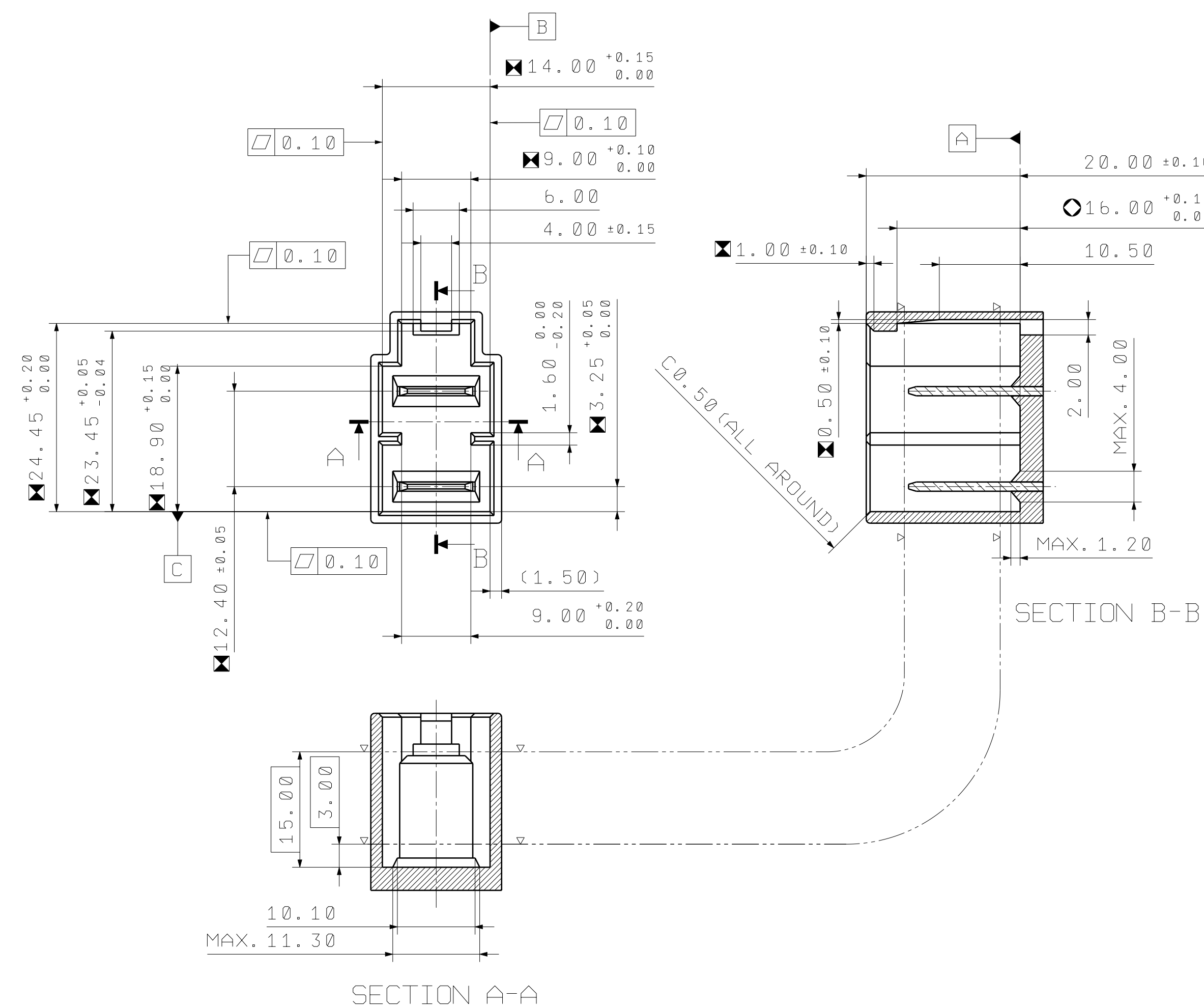
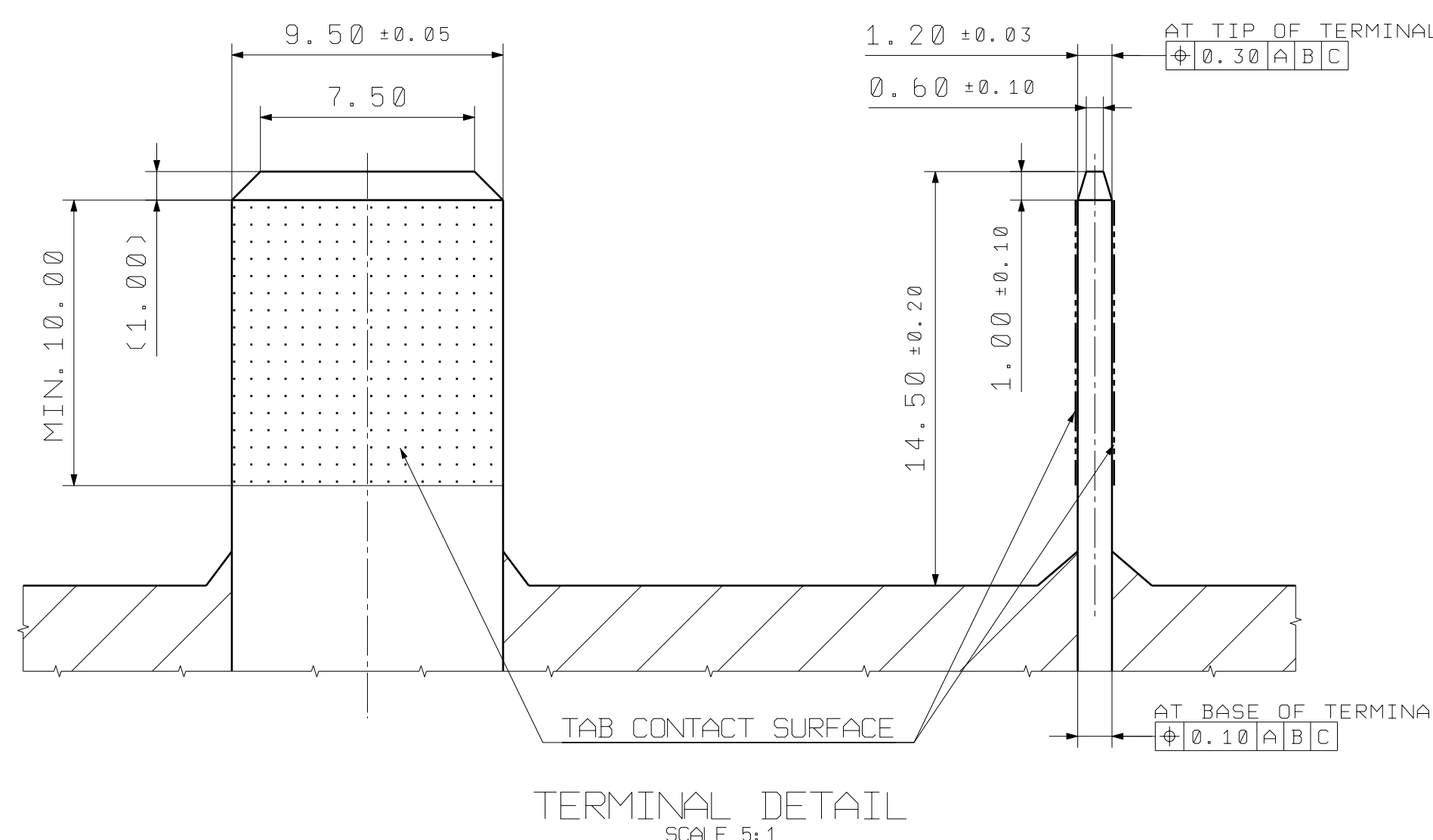
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2, which for a normal distribution provides a level of confidence of approximately 95%.

**END**

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*These laboratory test results are exclusively relating to the tested samples in their incoming conditions. The sampling and its data are customer responsibility.*

## A1 CONNECTOR INTERFACE



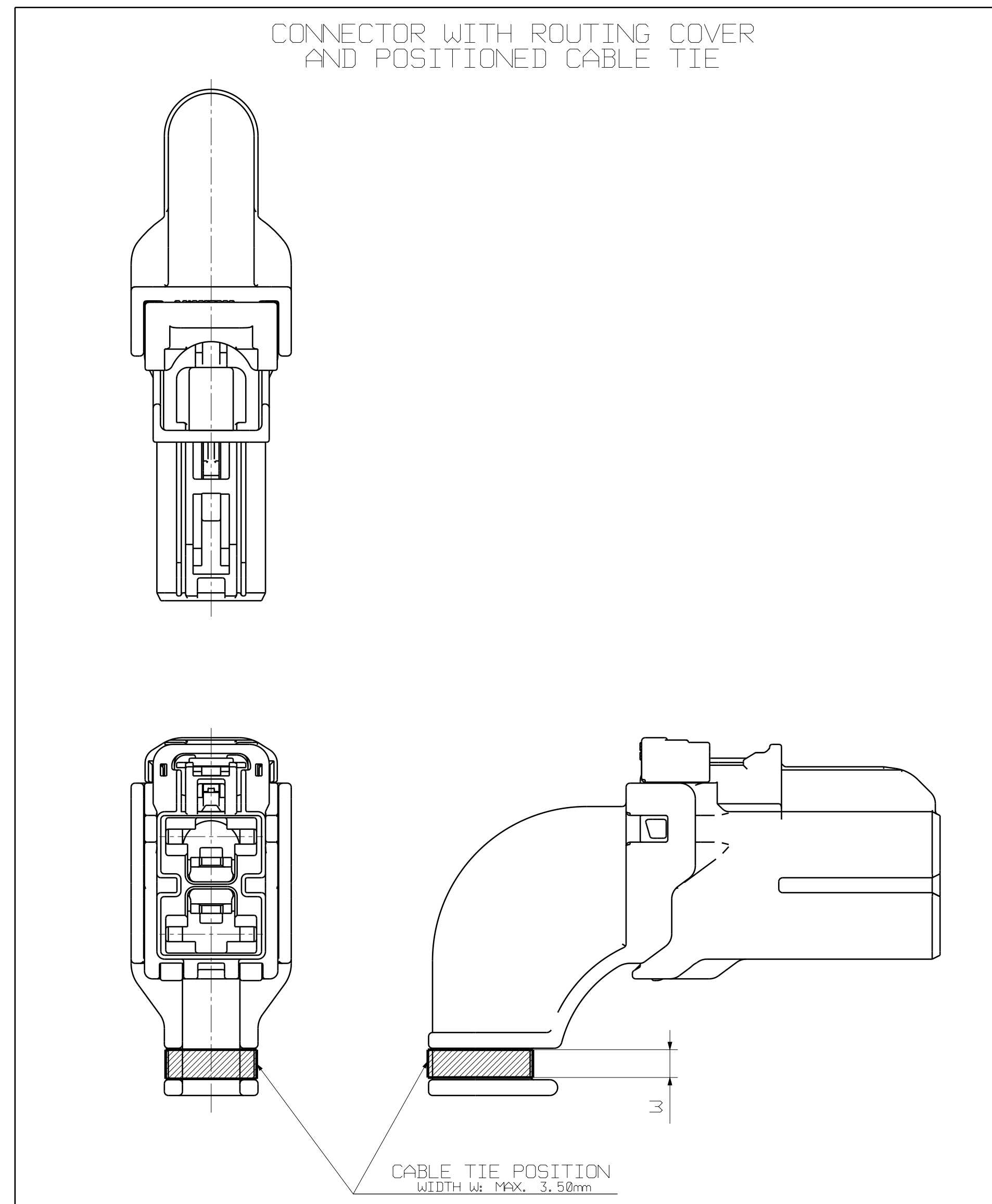
NOTES :

1. UNLESS OTHERWISE SPECIFIED ALL RADII TO BE 0.50mm.
2. PRODUCT MUST BE FREE OF FLASH AND IMPERFECTIONS 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-GF30 OR MATERIAL THAT PROVIDES SIMILAR PERFORMANCE TO FULLFILL LOCKING FUNCTION REQUIRED.
6. HOUSING MATERIAL: Cu ALLOY WITH CONDUCTIVITY THAT FITS TO THE UNIT SIDE MANUFACTURER ELECTRICAL PERFORMANCE REQUIREMENTS.
7. PLATING:  
TIN: UNDERLAYER DEPOSITED NICKEL (Ni)  
UNDERLAYER MATTE (STRESS FREE) PREPLATING 1-2 µm  
CONTACT AREA: ELECTRODEPOSITED TIN (Sn) PREPLATING 1-3 µm.  
Ra<0.35 µm
8. FOR THE CORRECT TAB MATERIAL SELECTION THE FINAL APPLICATION AND IT'S ATTACHMENT AREAS HAS (HAVE) TO BE CONSIDERED BY THE DESIGN OWNER.  
DENOTES PART SHALL HAVE THE SAME PLATING.
10. **X** DENOTES DIMENSION NECESSARY FOR PROPER PART FUNCTION.  
FOR THE LIFE OF TOOL, DIMENSION SHALL BE USED FOR REGULARIFICATION.
11. **◇** 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.**

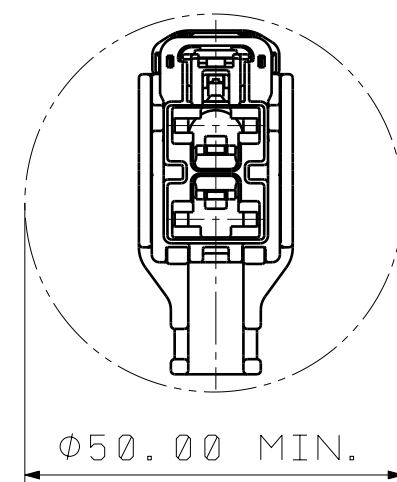
GENERAL TOLERANCE							
	10MAX	50MAX	100MAX	250MAX	250OVR	ANGLE	ECCENT
(A)	±0.15	±0.2	±0.3	±0.5	±0.75	±30°	±0.1
B	±0.2	±0.3	±0.55	±0.95	±1.4	±30°	±0.1
C	±0.3	±0.5	±0.8	±1.4	±2	±30°	±0.15

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

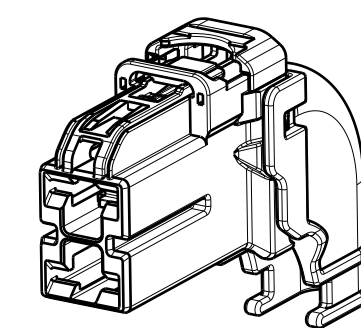
ITEM	PIA DESCRIPTION	COLOR/PLATING	FORD COMPONENT PART NO.	YAZAKI COMPONENT PART NO.	MATERIAL/SPEC NO.	RECYCLING CODE	APPROX. WEIGHT	NUMBER OF ITEMS REQUESTED
1	HOUSING (F) CODE A	BLUE	N/A	7189-5053-90	PBT-WS5-M99P23-C	>PBT<		1
2	HOUSING (F) CODE B	BLACK	N/A	7189-5054-30	PBT-WS5-M99P23-C	>PBT<		1
3	CPA	RED	N/A	7158-6069-50	PBT-GF15-WS5-M99P23-C	>PBT-GF15<		1 1



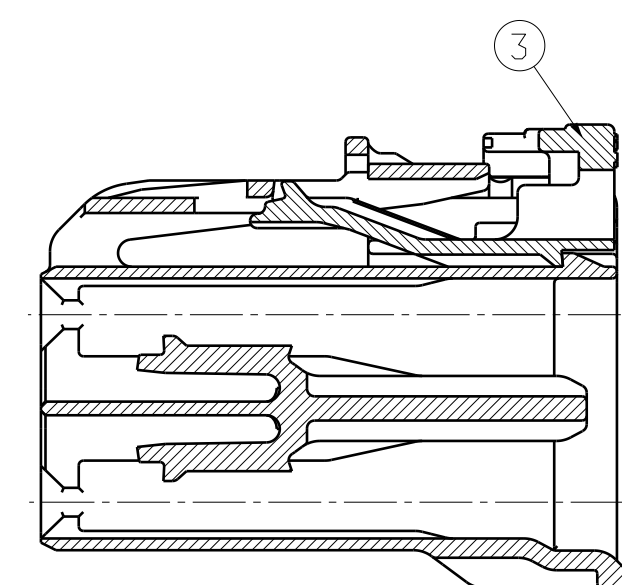
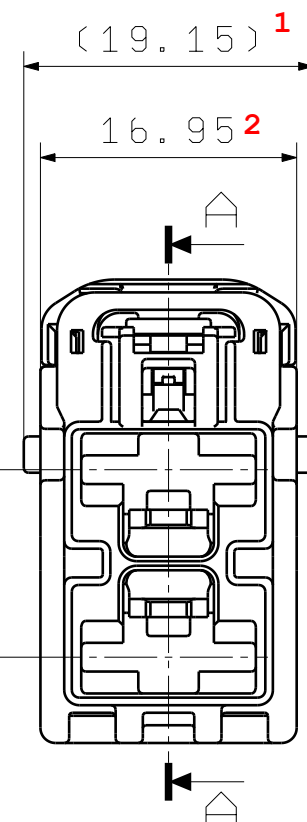
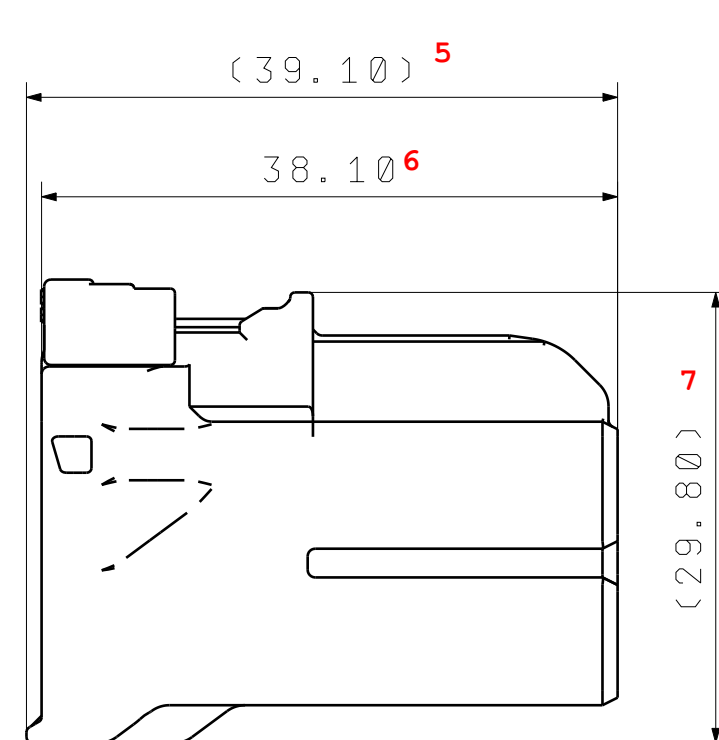
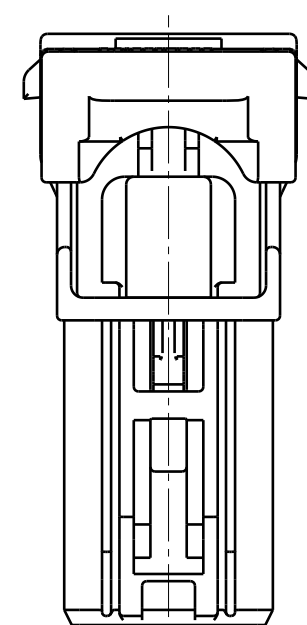
CONNECTOR ASSEMBLY CHART					
ASSEMBLY PART NO.'S			MATING COMPONENT		
FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.	MAX. TEMP.	VIBRATION CLASS	FORD COMPONENT PART NO.	SUPPLIER COMPONENT PART NO.
N/A	7289-5053-90	100°C	V1	DUST-144459-NA	7122-4129-90
HUST-14489-NA	7289-5054-30	100°C	V1	XWAT-144086-NA JUST-144459-EA	7122-4123-30 7122-4320-30



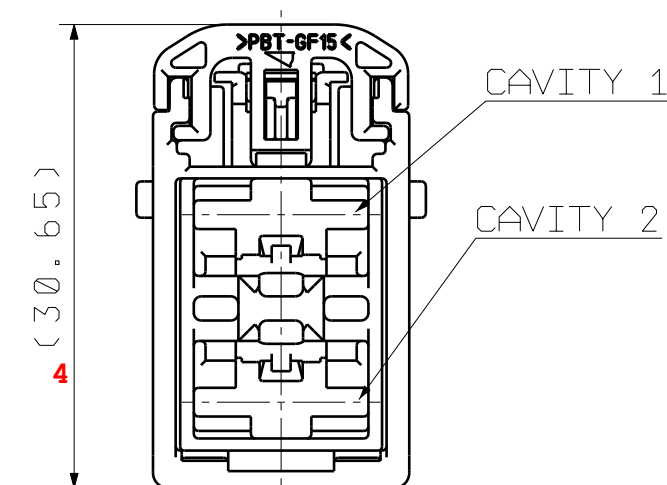
MINIMUM THROUGH  
HOLE DIMENSION  
(1.0 mm CLEARANCE AROUND)  
SCALE 1:1



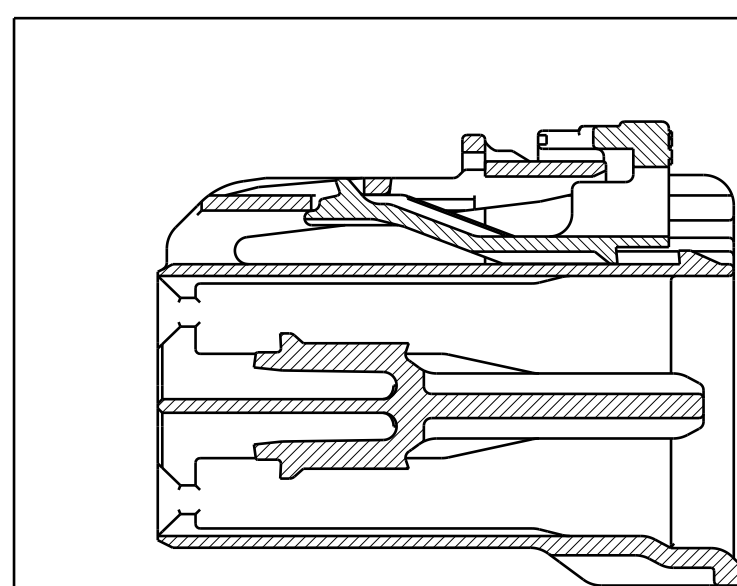
ISOMETRIC VIEW  
SCALE 1:1



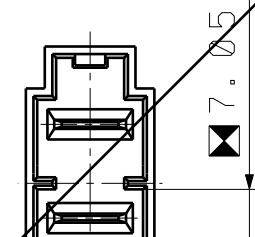
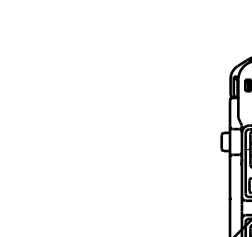
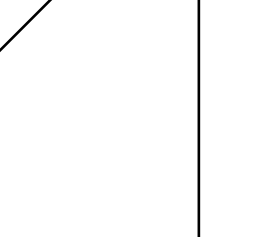
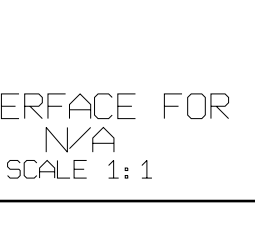
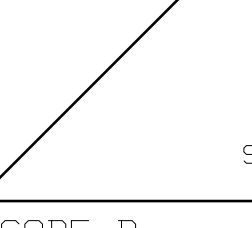
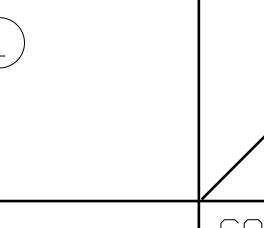
SECTION A-A  
(WITH CPA)



REAR VIEW  
(WIRE INSERTION VIEW)



CPA IN FULL SET POSITION

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

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 341mm<sup>2</sup>.
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	WPCZCWS	ASANKOV1	
REDRAWN TO LATEST DRAWING STANDARDS AFTER FIRST REVISION			
A1 UPDATED CONNECTOR INTERFACE			
AELE-E-11784007-411		20170206	
YAZAKI	WPCZCWS	ASANKOV1	
B1 ADDED PART NUMBERS IN TABLE			
AELE-E-11784007-462		20171115	
YAZAKI	WPCZCWS	ASANKOV1	

<p>THIS DRAWING HAS BEEN PREPARED BY OR ON BEHALF OF FORD MOTOR COMPANY. FORD RETAINS ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN PERFORMING SERVICES DIRECTLY OR INDIRECTLY TO FORD. UNAUTHORIZED USE, COPYING OR MODIFICATION, INCLUDING THE REMOVAL OF THIS NOTE, MAY CONSTITUTE A VIOLATION OF CIVIL OR CRIMINAL LAWS ENFORCEABLE BY FORD OR GOVERNMENTAL AGENCIES.</p> <p>COPYRIGHT (C) FORD MOTOR COMPANY (YEAR AS INITIAL RELEASE)</p>			
<p>UNSEALED 9.5 mm CONNECTOR WITH ROUTING COVER</p>			
<p>WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD</p>			
<p>TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT</p>			
<p>CORDANCE WITH FORD MOTOR</p>			
<p>ERING CAD AND DRAFTING</p>			
<p>ION 28.1</p>		<p>3RD ANGLE PROJ. DIMENSIONS ARE IN MILLIMETERS</p>	
LOC.	CAD FILE	DATE	
Co	HU5T-14489-N-DWG-01	IS MASTER	
DRAWING		HU5T-14489-NA	
TITLE	SHT 1		OF 1
SLV WIR CONN FEM	REV/LH		N/A
DATE	N/A		
50128	PLANT		N/A
<p>FORD MOTOR COMPANY</p>			

**Certificado de inspeção (EN 10204-3.1)**

Lote	Nome do produto	Número de fornecimento	Entrega prevista
0001114262	POCAN B 1305 901510 P.1000/25PE-S.HP-CP1W	3017353738 / 000010	13.07.2022

Os testes foram realizados especificamente.

Método de Inspeção/ Característica	Resultado	Especificação	Unidade
1) ISO 180/1U Resistência Impacto Izod aIU ( 23°C)	120,9	>= 90,0	kJ/m²
2) Sim. a DIN EN ISO 1133-1 MVR 250°C; 2,16kg	48,4	39,0 - 56,0	cm³/10

Contact for inquiries regarding this Certificate of Analysis:

Mr. Michael Weber

Mall: michael.weber@lanxess.com

The data presented above relate to characteristics. They do not represent any assurance or warranty. This information does not release the customer from the obligation to carry out incoming inspections of goods, either as agreed or as required under the regulations.

This information has been issued by computer and is valid without signature.

Authorized inspection representative: Dr. Dietmar Klein



# **Certificado de Inspeção**

De acordo com EN10204 3.1

De: **Performance Specialty Prod. Iberica  
Valle de Tamón-Nubledo**

Para: **DOHM OPERADOR LOGISTICO  
TRAVESSA DE GONDINHAES  
P-4415-207 PEDROSO, VILA NOVA DE GAIA**

**33469 CARRENO  
SPAIN**

Ref. seu pedido: **4500873777**  
Ref. seu produto: **5902740000 (CRASK602 NC010 1000 KG OCTABIN PCG)**

Produto: **CRASK602 NC010 1000 KG OCTABIN PCG**  
Identificação: **EUQWENB204**

País de origem: **Germany**  
Local de embarq: **GENK CLEARED WHSE 8933 B9** **16 Maio 2022**  
No. Pedido DuPont: /  
Documento de Entrega: **2501318693 / 7802916642**

Confirmamos que este produto esta de acordo com os critérios de Produto Padrão DuPont.

Os valores seguintes são resultado de medições feitas em uma amostra representativa para o número de lote de acordo com o plano de amostragem definido.

Característica	Método de Teste	Unidade	Valor	Limites	
				Inferior	Superior
Water Content at Packout, %	ISO 15512	%	0,030		0,100
Ash Content %	ISO 3451/1	%	14,9	13,0	17,0
Melt Viscosity, Pa.s	ISO 11443	Pa.s	204,0	160,0	260,0
Intrinsic viscosity		dl/g	0,85		
Visc. Numb.		cm <sup>3</sup> /g	105		

Favor consultar a literatura do produto ou seu representante local DuPont em nosso escritório de vendas. Este certificado foi produzido eletronicamente e, portanto, não requer uma assinatura.

Grupo de Qualidade

ESTE CERTIFICADO DE PRODUTO É INTRANSFERÍVEL E É VÁLIDO SOMENTE PARA A PRIMEIRA AQUISIÇÃO DESTE PRODUTO FEITA PELO CONSUMIDOR FINAL DIRETAMENTE DA DUPONT OU DE UM DISTRIBUIDOR AUTORIZADO DUPONT. PRODUTO E / OU CERTIFICADO DE PRODUTO OBTIDO DE FONTE NÃO AUTORIZADA É FALSO E A DUPONT NÃO DÁ GARANTIAS E NÃO ASSUME QUALQUER RESPONSABILIDADE EM RELAÇÃO AO USO OU CERTIFICADO DESSE PRODUTO. Chamar + 800-3876-6838 para uma lista de distribuidores sua área. Copyright © 2006 du Pont de Nemours International SA Todos os direitos reservados.

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PORTUGAL

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**C e r t i f i c a d o d e C o n f o r m i d a d e**  
**ISO/IEC 17050-1:2004**

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Seu pedido de 07.01.2021

Pedido N° : 5500267885  
Material : Renol Vermelho NB33050178-XT  
Material N° : MAAF0065

Nossa compra de 25.01.2021

Entrega N° : 52386942 / 900001  
Pedido : 14837017  
Material : Renol Vermelho NB33050178-XT  
Material N° : NB33050178  
Lote N° : ITNA421395  
Standard : ITMA212024

O produto descrito acima está conforme, até a data 25.01.2021 de validade,  
Especificação Técnica para

**Renol Vermelho NB33050178-XT**

19.01.2021

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