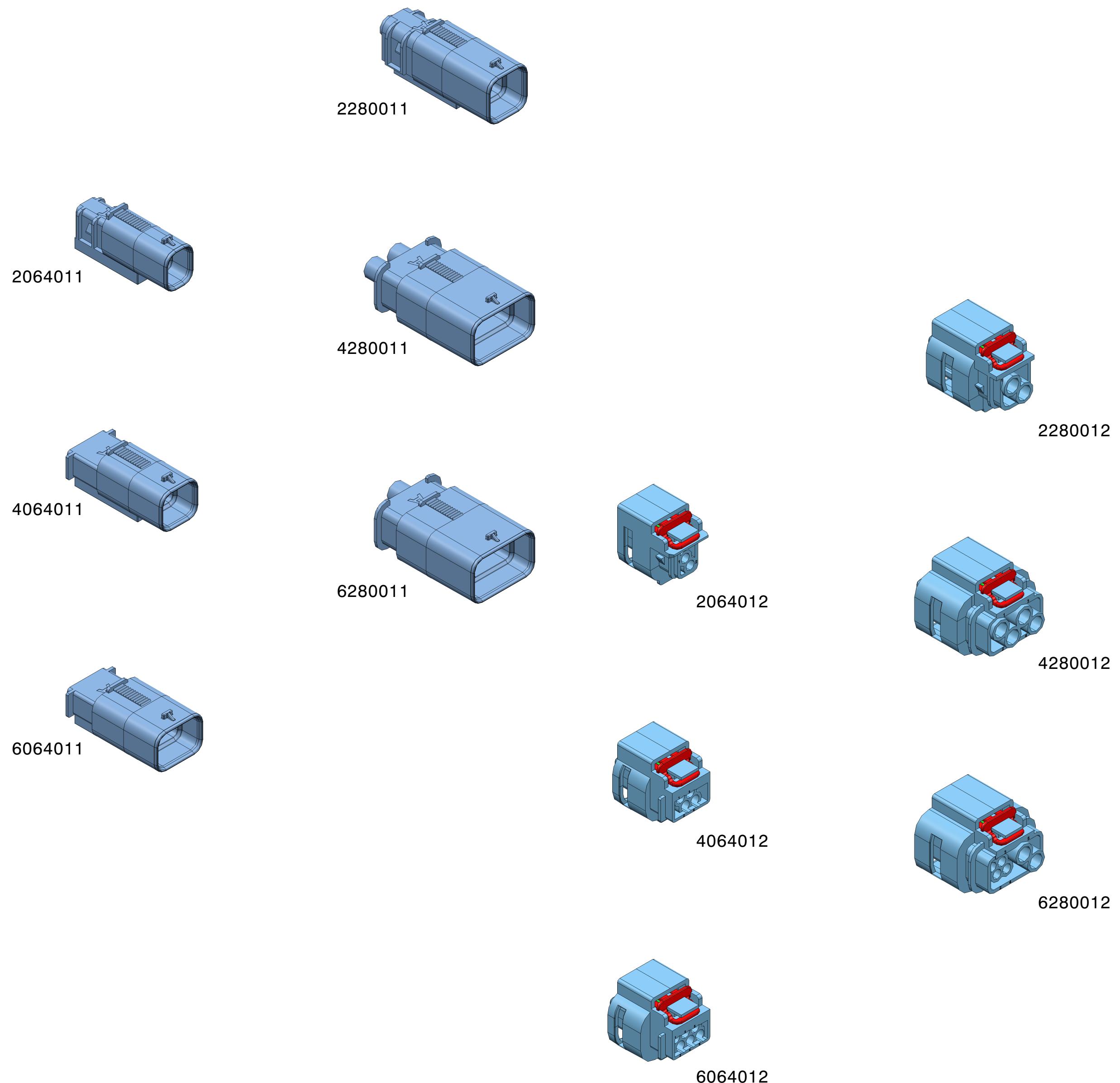


LOW VOLTAGE CONNECTOR STANDARD

CA	DATE	REV	DESCRIPTION	DRWN
CA-00243183	04JUN2024	01	MASS PRODUCTION CONNECTOR RELEASE	J. PANG



CATEGORY	PART NUMBER FEMALE CONNECTOR	PART NUMBER MALE CONNECTOR	STYLE CODE 1 (COLOR)	STYLE CODE 2 (KEY)	PEDIGREE	INTERFACE SPECIFICATION	PEDIGREE	TAB QUANTITY 0.64X0.64MM	TAB QUANTITY 2.8X0.8MM
LOW POWER (LP)	2064012	2064011	0 - BLUE 1 - BLACK	O A B C D	C	2064000-TS	B	2	0
	4064012	4064011			C	4064000-TS	B	4	0
	6064012	6064011			C	6064000-TS	B	6	0
HIGH POWER (HP)	2280012	2280011	0 - BLUE 1 - BLACK	O A B C D	C	2280000-TS	B	0	2
	4280012	4280011			C	4280000-TS	B	0	4
	6280012	6280011			C	6280000-TS	B	4	2

LICENSING

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REGULATORY COMPLIANCES

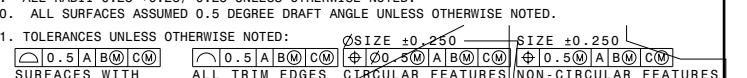
- R1. ALL MATERIALS AND COATINGS MUST COMPLY WITH ALL APPLICABLE INTERNATIONAL ENVIRONMENTAL RELATED REGULATIONS, INCLUDING BUT NOT LIMITED TO EU DIRECTIVES WYTA, ELV, RRR, RoHS, WEEE, REACH AND BATTERY DIRECTIVE 2006/66/EC, WHICH ARE DESCRIBED IN DETAIL AT THE GADS LIST IN ITS LATEST VERSION AT THE TIME OF USE. (<http://www.gads1.org>).
- REFERS TO TESLA INC. PART NUMBER 00000000 FOR FULL INFORMATION.
- R2. ALL MATERIALS AND COATINGS MUST COMPLY WITH EU DIRECTIVE 2000/53/EC (ELV DIRECTIVE).
- R3. COMPONENT TO CONFORM TO EU DIRECTIVE 2003/138/EC (MATERIAL CODING DIRECTIVE).
- R4. TOOL TO USE REMOVABLE MOLD INSERT(S) AT INDICATED AREA(S) WILL CONTAIN PART DATA INDICATING THE MOLD NUMBER, MANUFACTURE LEVEL, MANUFACTURED DATE, RECYCLING MARK, TESLA LOGO AND CONTRACT MANUFACTURER ID.
- R5. MATERIAL MUST COMPLY WITH FMVSS 303 OR BETTER.

GENERAL NOTES

- G1. THE MASTER SOURCE OF INFORMATION FOR THIS DOCUMENT IS A COMPUTER DATABASE.
- G2. 3D CAD DATA SUPPLIED IS TO BE USED TO PRODUCE PRODUCTION TOOLING AND FOR INSPECTION.
- G3. PRINTED DOCUMENT IS UNCONTROLLED - DOCUMENT OBSOLETE WHEN PRINTED.
- G4. THIS ASSEMBLY SHALL COMPLY WITH GRADE B BATCH TRACEABILITY REQUIREMENTS PER TESLA INC SPECIFICATION BMS-000015.
- G5. PART NUMBER AND REV B PART NUMBER IN THE AREA SHOWN PER TESLA PART LABELING SPECIFICATION BMS-000007.
- G6. THIS COMPONENT MUST BE PACKAGED IN ACCORDANCE WITH TESLA INC SPECIFICATION BMS-000000.
- G7. COMPONENTS TO BE PLACED IN POLY BAG. BAG TO BE MARKED WITH PART NUMBER, REVISION, QUANTITY, P.O. NUMBER, MANUFACTURING DATE AND VENDOR.
- G8. COMPONENTS TO BE PLACED IN CARTON MARKED FOR SHIPPING IN ACCORDANCE WITH TESLA INC. SPECIFICATION BMS-0000093.
- G9. ANY PARTS THAT ARE CONTRACTED TO MANUFACTURE THIS COMPONENT SHALL BE PROPERTY OF TESLA MOTORS, INC., AND SHALL BE PERMANENTLY MARKED WITH "TESLA INC.", TOOLING PART NUMBER AND DATE.
- G10. IN ADDITION TO THE DRAWINGS, ALL PARTS SUBJECT TO TESLA SHALL MEET ALL REQUIREMENTS OF: TESLA RS-0002480 - LOW VOLTAGE CONNECTOR STANDARD PERMANENT MARKING SPECIFICATION TESLA RS-0000003 - 48V CONNECTOR RELIABILITY RELATIONSHIP TEST INSPECTION.
- G11. A FULL SHROUD ON THE MATING CONNECTOR AS SHOWN IS REQUIRED TO PREVENT SCREW DAMAGE TO THE HEADER PINS.
- G12. CPA TO BE SHIPPED IN DISENGAGED POSITION.

DIMENSIONAL NOTES

- D1. INTERPRET SPECIFICATIONS PER GEOMETRIC DIMENSIONING & TOLERANCING ASME Y14.5-2009.
- D2. CAD UNITS ARE MILLIMETERS AT 1:1. TOOLING SUPPLIER TO ALLOW FOR MATERIAL SHRINKAGE.
- D3. LENGTH DIMENSIONS SPECIFIED IN THE DRAWING VIEWS OF THIS DOCUMENT SUPERSEDE DIMENSIONS PROVIDED IN OTHER DOCUMENTS.
- D4. HARDCOPY IS NOT SCALE, DO NOT SCALE IMAGES.
- D5. DIMENSIONS ARE THEORETICAL SIZE CORRECTED.
- D6. THIS PART HAS BEEN CAD DESIGNED AND TOOLED WITH THE DATUM REFERENCES AS SHOWN. THE DATUM REFERENCES USED ON THIS DRAWING TAKES PRIORITY OVER THE EWP DRAWING GUIDELINE DATUM REFERENCE REQUIREMENT.
- D7. SEEING DIMENSIONS INDICATED IN LIGHT BLUE AND MUST BE FREE OF PARTING LINES AND DEFECTS. SURFACE Rz < 2.5μm
- D8. PARTING LINE MISMATCH NOT TO EXCEED 0.05mm FLASH NOT TO EXCEED 0.05mm.
- D9. ALL RADII 0.25 ±0.25 ±0.25 UNLESS OTHERWISE NOTED.
- D10. ALL SURFACES TO BE FINISHED DRAFT ANGLE UNLESS OTHERWISE NOTED.
- D11. TOLERANCES UNLESS OTHERWISE NOTED:



MATERIAL SPECIFICATIONS

- M1. MANUFACTURING PROCESS: INJECTION MOLDING.
- M2. REGRINDING IS PERMITTED, IF REGRIND IS USED IN PRODUCTION, SAMPLES MADE FROM MAXIMUM INTENDED AMOUNT OF REGRIND MUST BE VALIDATED TO PERFORMANCE REQUIREMENTS SPECIFIED IN THIS DOCUMENT.
- M3. CLEANLINESS: PART TO BE FREE OF MOLD RELEASE ON ALL SURFACES.
- M4. APPROVED PLASTIC PROCESSORS: FREE OF ALL FOREIGN MATERIALS, BUT NOT LIMITED TO, SPLASH, INCLUDED PARTICLES, BURNED PLASTIC MARKS AND SIMILAR IMPERFECTIONS.
- M5. EJECTOR PIN, PARTING LINE AND GATE LOCATION MUST BE APPROVED BY TESLA INC.
- M6. NO SUBCONTRACTORS MAY USE TESLA MATERIALS OR ASSOCIATED PROCESSING MATERIALS WITHOUT THE PRIOR WRITTEN CONSENT OF TESLA INC.

TERMINAL NOTES

- T1. RECOMMENDED MATERIAL: COPPER OR CUNISI ALLOY (50% IACS MIN)
- T2. RECOMMENDED FINISH: 100% LEAD FREE TIN + NICKEL UNDERPLATING (>20 CYCLES), SILVER + NICKEL UNDERPLATING (<5 CYCLES)
- T3. TAE TO BE FREE OF BURRS IN EXCESS OF 10% OF MATERIAL THICKNESS UNLESS OTHERWISE SPECIFIED.
- T4. LOOSE BURRS OR SLIVERS ARE NOT PERMISSIBLE
- T5. PARTS ARE TO BE FREE OF DUST AND CONTAMINANTS
- T6. TO BE PLATED IN TESLA INC.
- T7. TOTAL TWIST ALONG LENGTH OF TERMINAL NOT TO EXCEED 5° IN EITHER DIRECTION
- T8. NO CHANGES SHALL BE MADE TO TERMINAL MATERIAL OR PLATING WITHOUT THE PRIOR WRITTEN CONSENT OF TESLA INC.
- T9. MATERIAL AND PLATING SPECIFICATIONS DEPENDENT ON MANUFACTURING AND ASSEMBLY PROCESS
- T10. 0.64 TERMINAL MUST FOLLOW ECWAP-001: 064-T002 4 BEAM APPLICATION UNLESS OTHERWISE NOTED
- T11. 2.8 TERMINAL MUST FOLLOW ECWAP-001: 280-T001 UNLESS OTHERWISE NOTED
- T12. 6.3 TERMINAL MUST FOLLOW ECWAP-001: 630-T001 UNLESS OTHERWISE NOTED

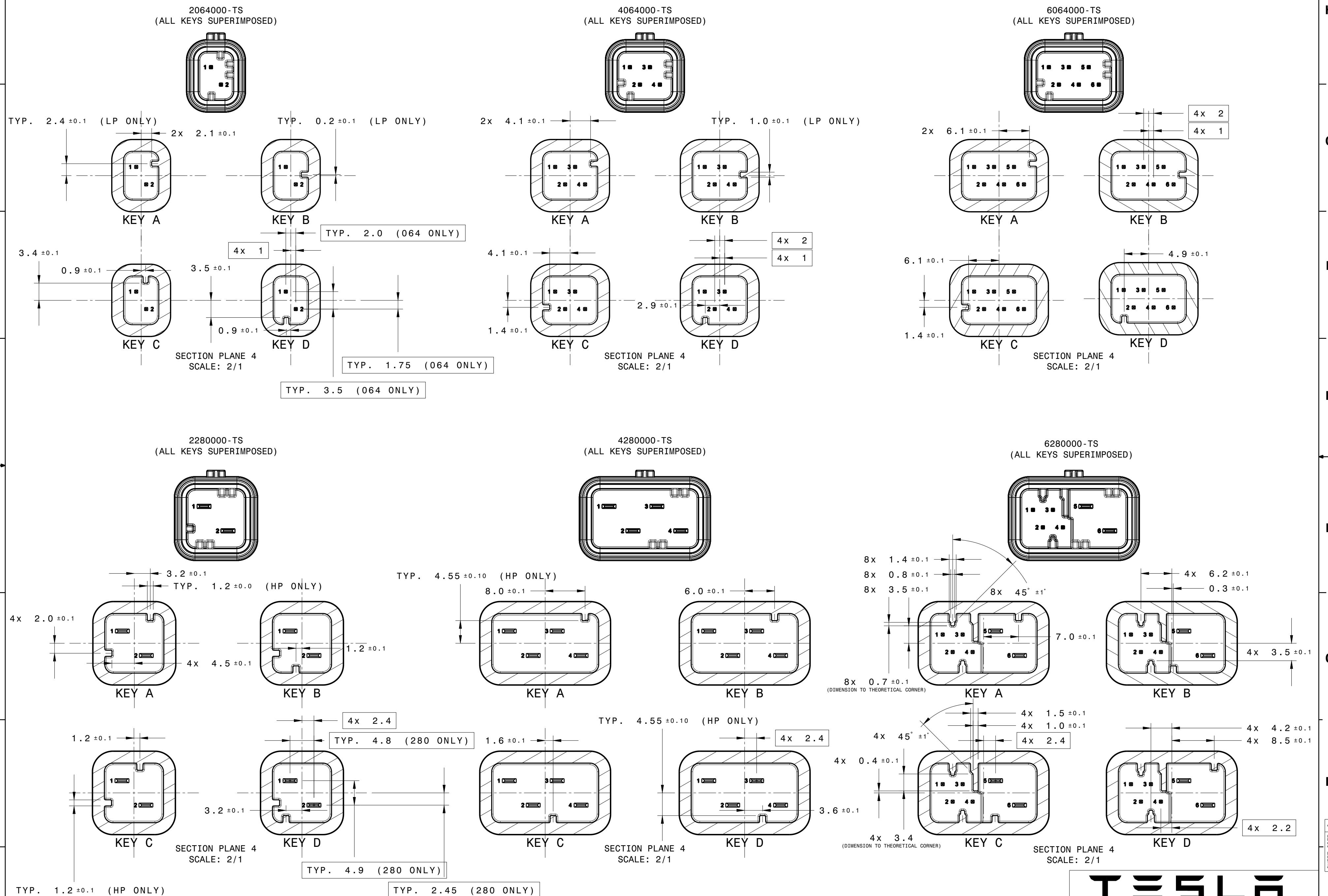
CAD FILE NAME	TRACEABILITY GRADE
3SH-07710087	B

DRAWN BY	J. PANG	DATE	04JUN2025

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MATERIAL	N/A	FINISH	N/A	EST. MASS (g)	N/A	SHEET SIZE
THIRD ANGLE PROJECTION						
				DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.	SCALE	C
ITEM NAME	LOW VOLTAGE CONNECTOR STANDARD					
ITEM NUMBER	DRW-00456412	REVISION			SHEET	
		C.1	1 of 12			

INTERFACE KEY DETAIL



NOTE:
ALL CENTERLINE PLANES ESTABLISHED BY DATUM B
ALL RIBS 0.5 DEGREE DRAFT ANGLE (PLANE 4 NEUTRAL PLANE)
ALL DIMENSIONS ON PAGE:  0.2 A B



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LOW VOLTAGE CONNECTOR STANDARD

LOW VOLTAGE CONNECTOR STANDARD

DBW-00456412 REVISION SHEET

DRW-00450412 C.1 2 of 12

6 1

2 1

LOW POWER (LP) INTERFACE DIMENSIONS

6064000-TS SHOWN FOR ILLUSTRATION PURPOSES. ALL KEYS SHOWN SUPERIMPOSED.
DIMENSIONS W,X,Y,Z USED TO ESTABLISH MAIN PROFILE. KEYS AND RIBS IGNORED.

DIMENSION W

INTERFACE	PLANE 1	PLANE 2	PLANE 4
2064000-TS			
4064000-TS	13.91	*14.30	14.42
6064000-TS			

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION Y

INTERFACE	PLANE 1	PLANE 2	PLANE 4
2064000-TS	11.21	*11.60	11.72
4064000-TS	15.21	*15.60	15.72
6064000-TS	19.21	*19.60	19.72

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION X

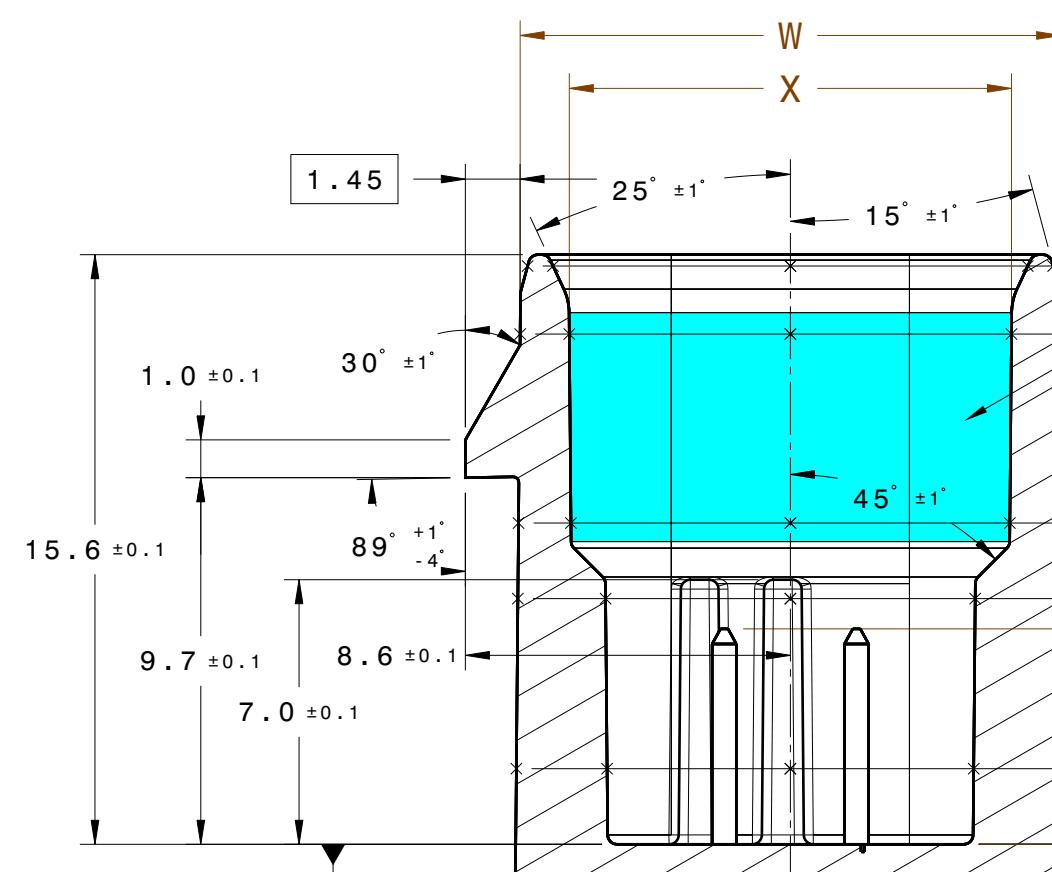
INTERFACE	PLANE 1	PLANE 2	PLANE 3	PLANE 4	PLANE 5
2064000-TS					
4064000-TS	12.56	*11.7	11.61	9.78	*9.70
6064000-TS					

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION Z

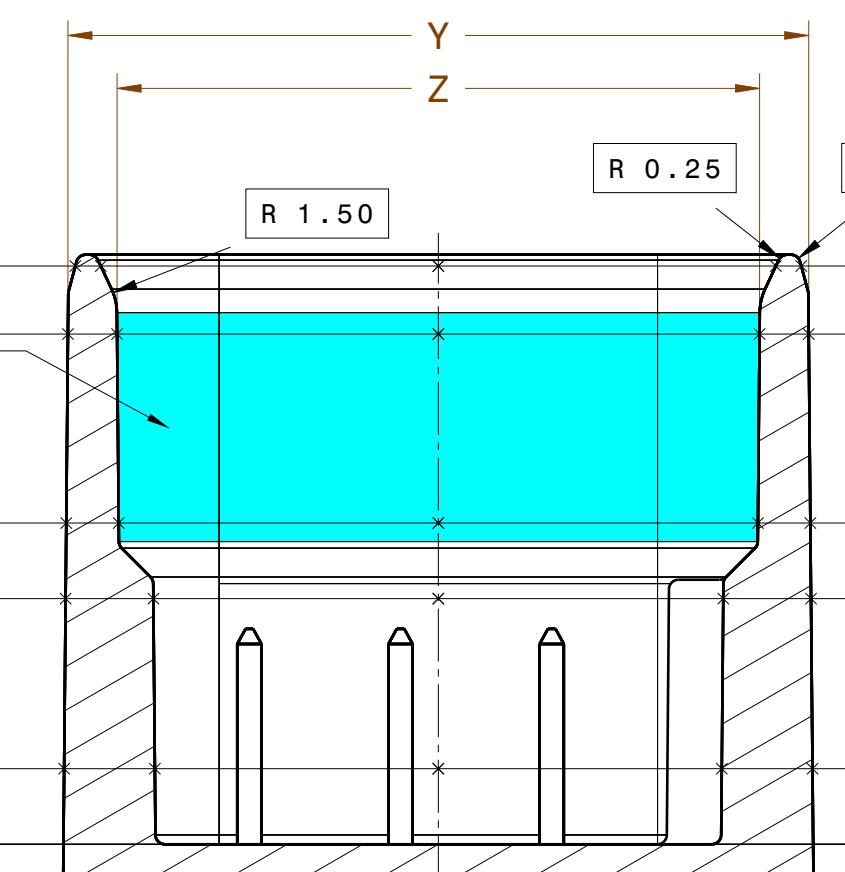
INTERFACE	PLANE 1	PLANE 2	PLANE 3	PLANE 4	PLANE 5
2064000-TS	9.86	*9.00	8.91	7.08	*7.00
4064000-TS	13.86	*13.00	12.91	11.08	*11.00
6064000-TS	17.86	*17.00	16.91	15.08	*15.00

* DENOTES NEUTRAL DRAFT PLANE



SECTION A-A

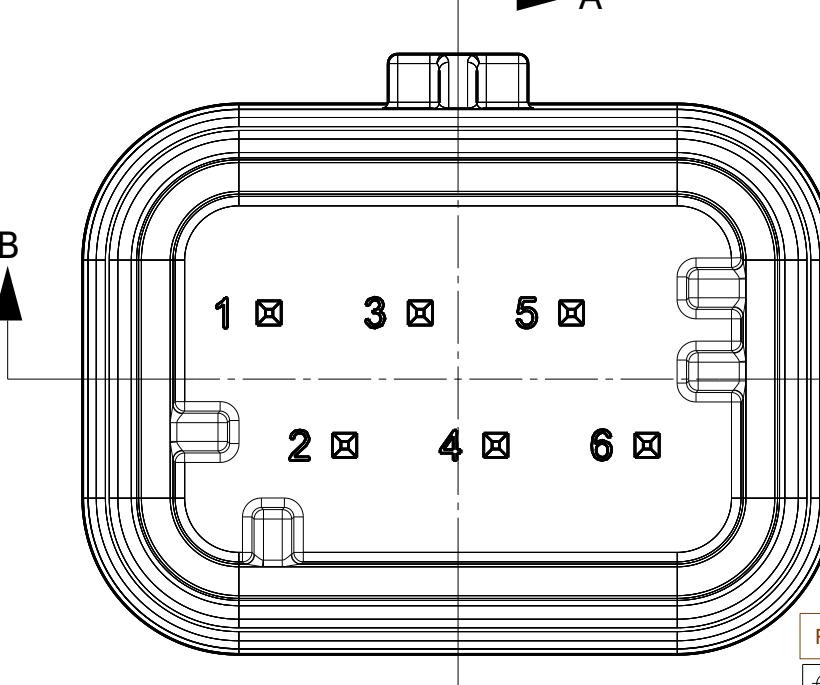
SCALE: 5/1



SECTION B-B

SCALE: 5/1

2.0
PLANE 5
6.5
PLANE 4
8.5
PLANE 3
13.5
PLANE 2
15.3
PLANE 1



ALL CORNERS CONCENTRIC

R 1.7

REFER TO EWCAP 064-T
0.2 A BREFER TO EWCAP 064-T
0.2 A B

RIBS IGNORED IN PROFILE MEASUREMENT

0.1 A

B

RIBS IGNORED IN PROFILE MEASUREMENT

0.1 A

B

SECTION PLANE 5
SCALE: 5/1SECTION PLANE 2
SCALE: 5/1

TRUE MEASURED AT TOP OF TERMINAL

0.15 A B

C

ALL CORNERS CONCENTRIC

R 2.7

REFER TO EWCAP 064-T
0.3 A B

0.15 A B

C

OUTER SURFACE
0.2 A B

0.3 A B

0.15 A B

0.3 A B

HIGH POWER (HP) INTERFACE DIMENSIONS

6280000-TS SHOWN FOR ILLUSTRATION PURPOSES. ALL KEYS SHOWN SUPERIMPOSED.
DIMENSIONS W,X,Y,Z USED TO ESTABLISH MAIN PROFILE. KEYS AND RIBS IGNORED.

DIMENSION W

INTERFACE	PLANE 1	PLANE 2	PLANE 4
2280000-TS			
4280000-TS	16.11	*16.50	16.62
6280000-TS			

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION Y

INTERFACE	PLANE 1	PLANE 2	PLANE 4
2280000-TS	16.01	*16.40	16.52
4280000-TS	25.61	*26.00	26.12
6280000-TS			

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION X

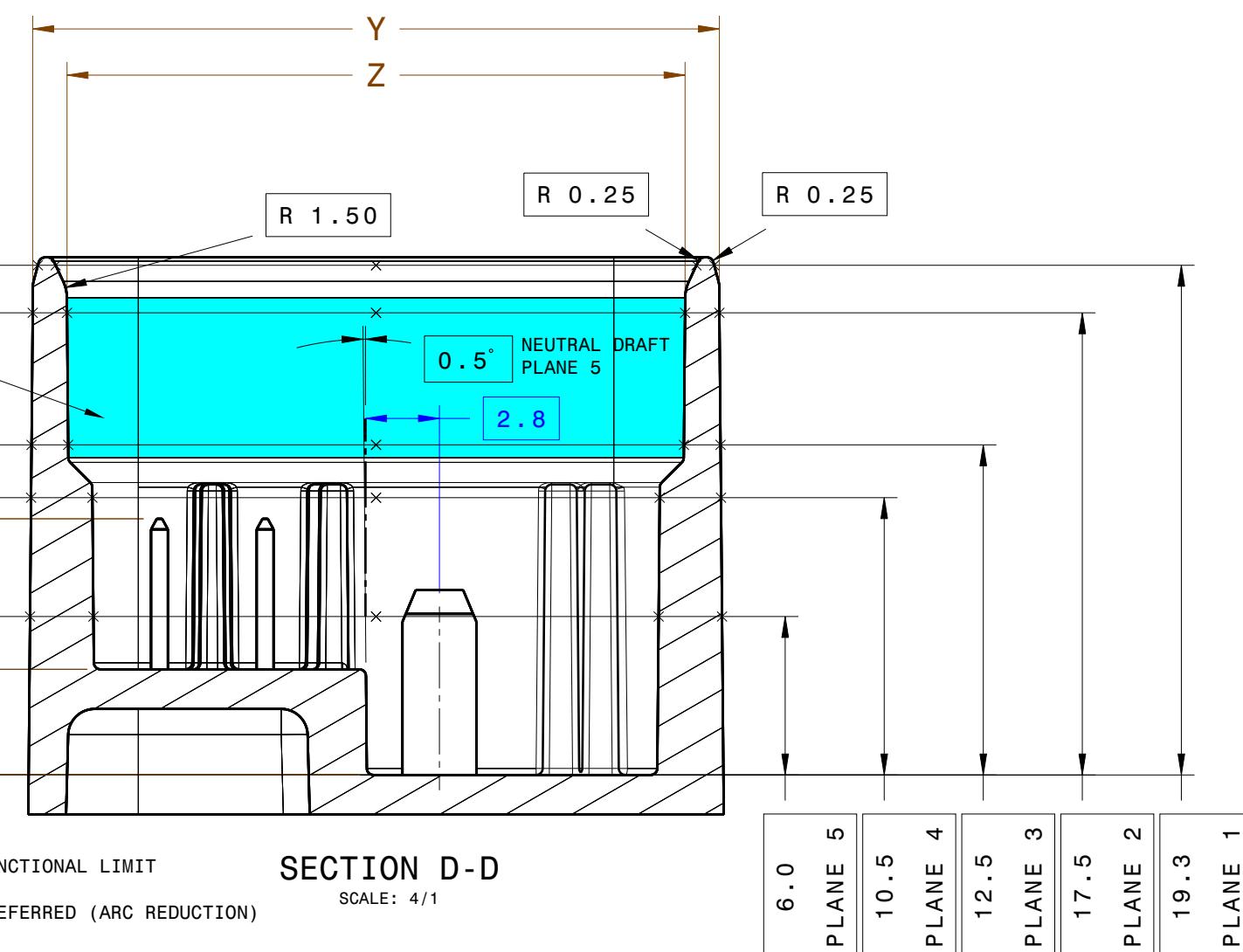
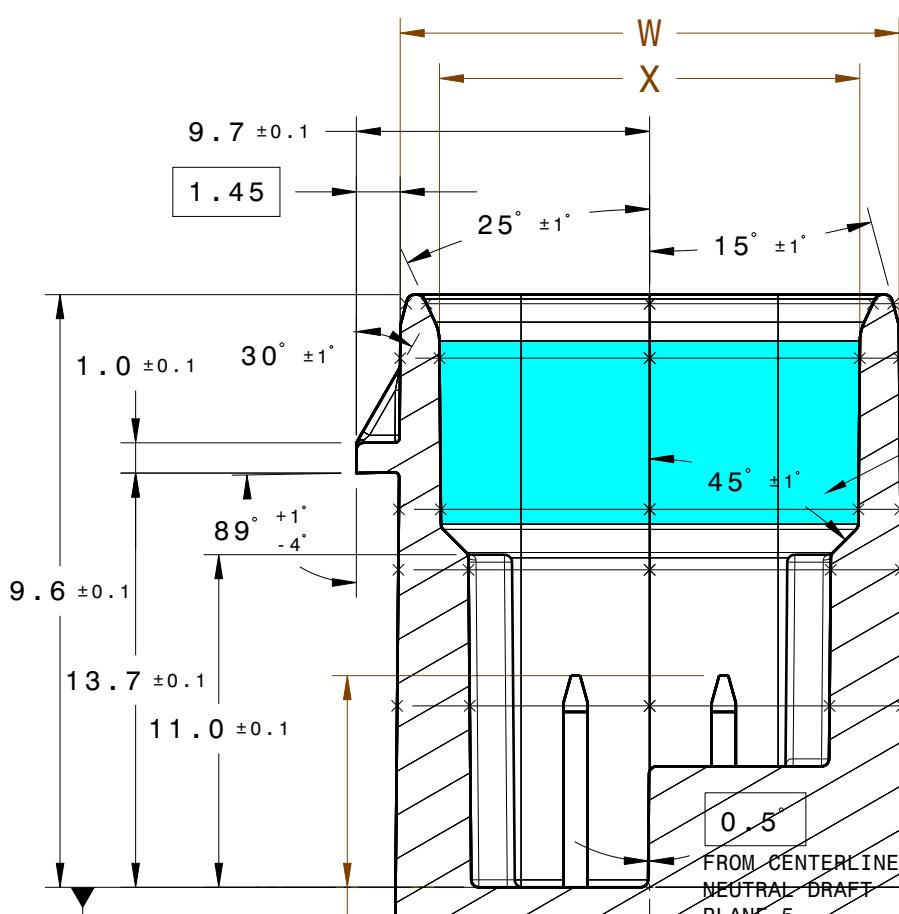
INTERFACE	PLANE 1	PLANE 2	PLANE 3	PLANE 4	PLANE 5
2280000-TS					
4280000-TS	14.76	*13.90	13.81	11.98	*11.90
6280000-TS					

* DENOTES NEUTRAL DRAFT PLANE

DIMENSION Z

INTERFACE	PLANE 1	PLANE 2	PLANE 3	PLANE 4	PLANE 5
2280000-TS	14.66	*13.80	13.71	11.88	*11.80
4280000-TS	24.26	*23.40	23.31	21.48	*21.40
6280000-TS					

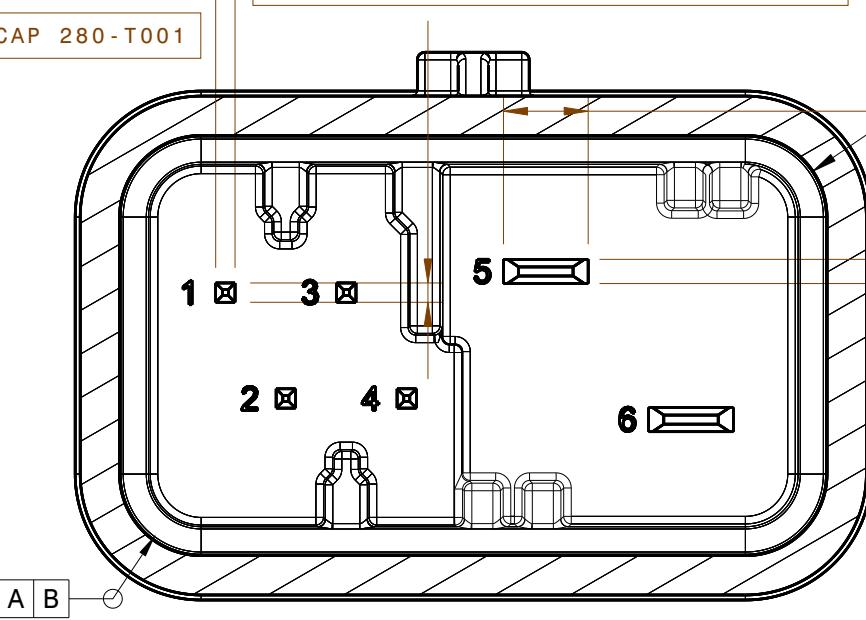
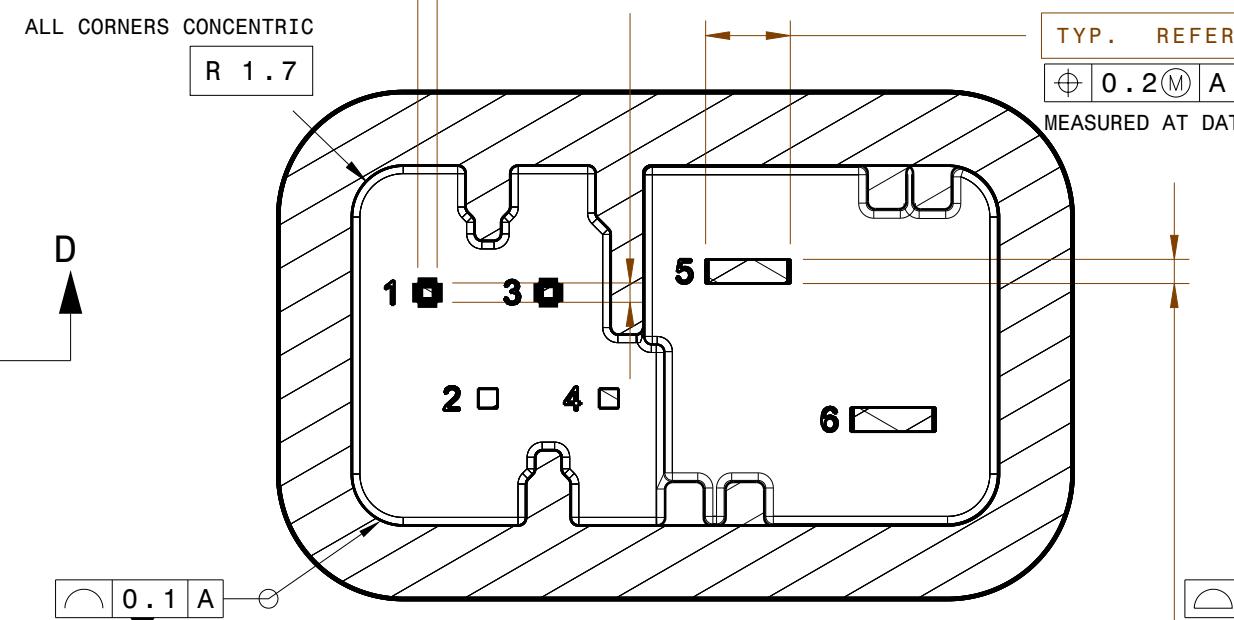
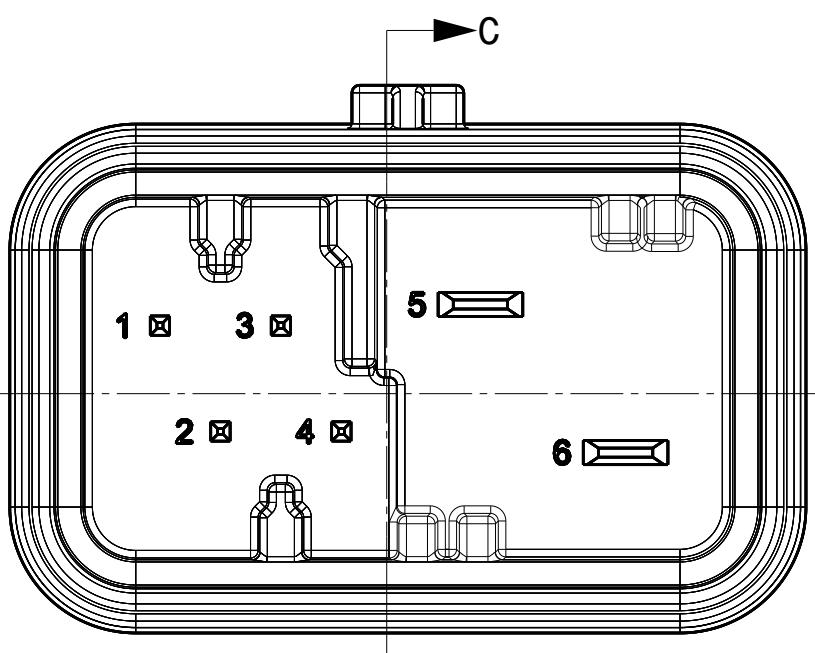
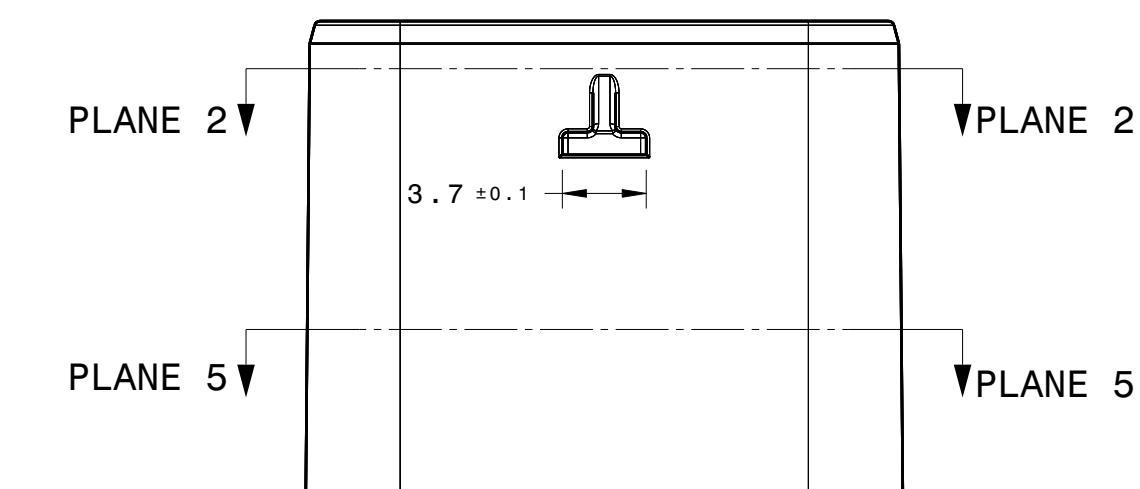
* DENOTES NEUTRAL DRAFT PLANE



TYP. 3.0 MAX.
3 +Y (PLANE 2) MIN.
3 +Y (PLANE 2) MIN.

SURROUNDING STRUCTURE

HEADER KEEP OUT ZONE
SCALE: 3/1



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ITEM NAME: LOW VOLTAGE CONNECTOR STANDARD

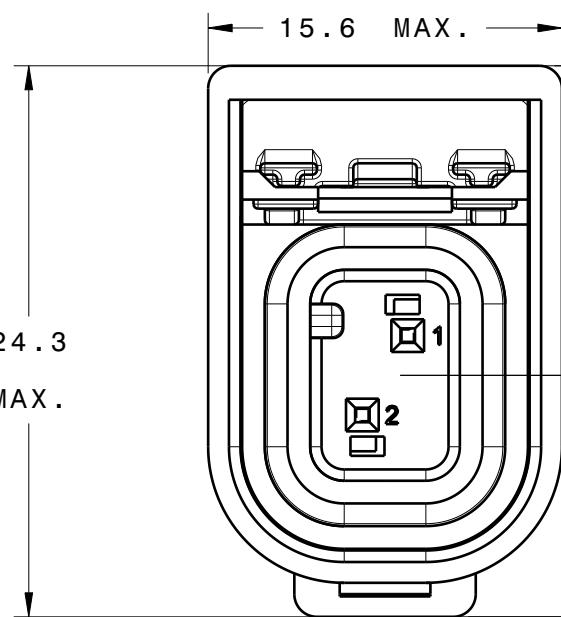
ITEM NUMBER: DRW-00456412

REVISION: C.1

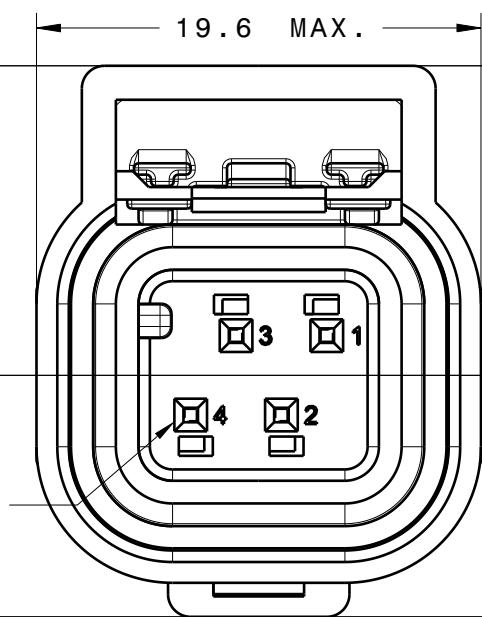
SHEET: 4 of 12

FRONT CONNECTOR VIEW

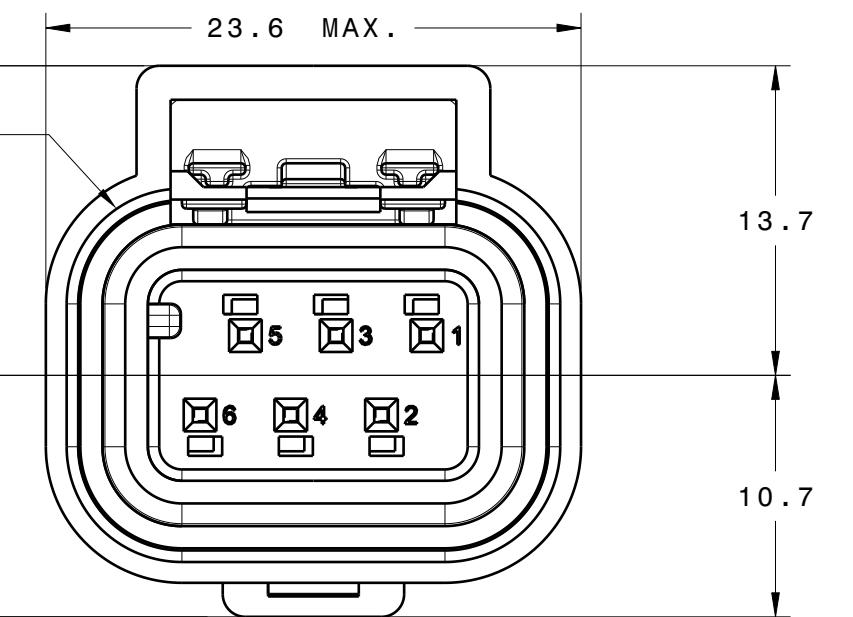
MAXIMUM EXTERNAL DIMENSIONS SHOWN TO ENSURE PACKAGING. ANY TEST OR ASSEMBLY FIXTURES MUST LOCATE TO CONTROLLED INTERFACE, NOT EXTERNAL DIMENSIONS.



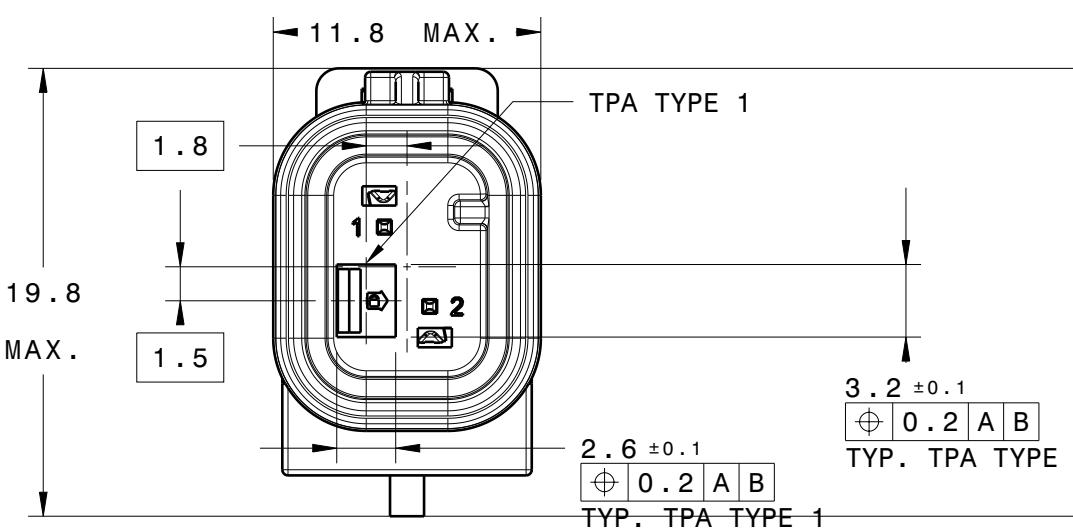
2064012



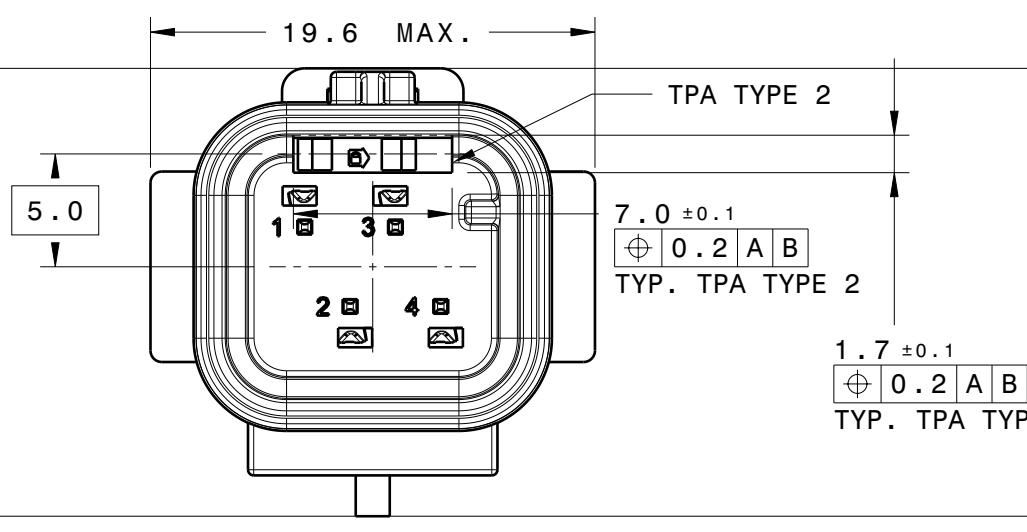
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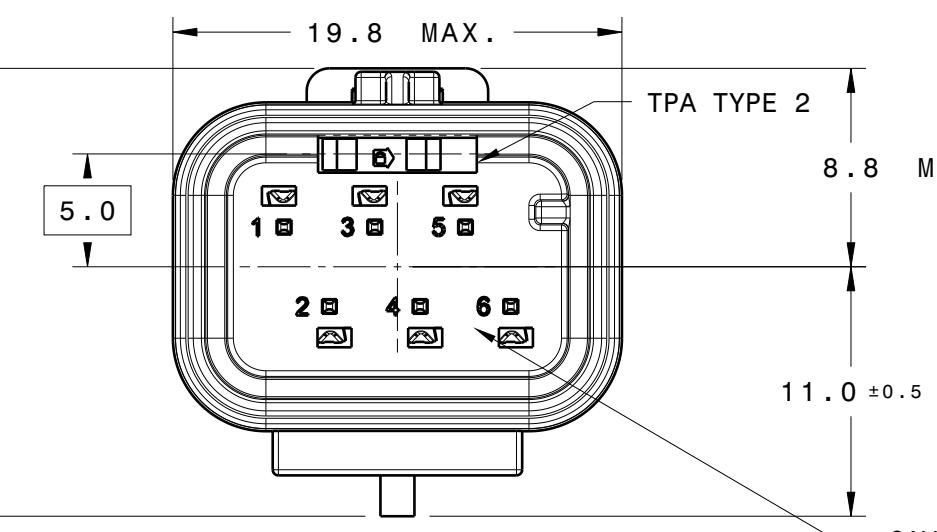
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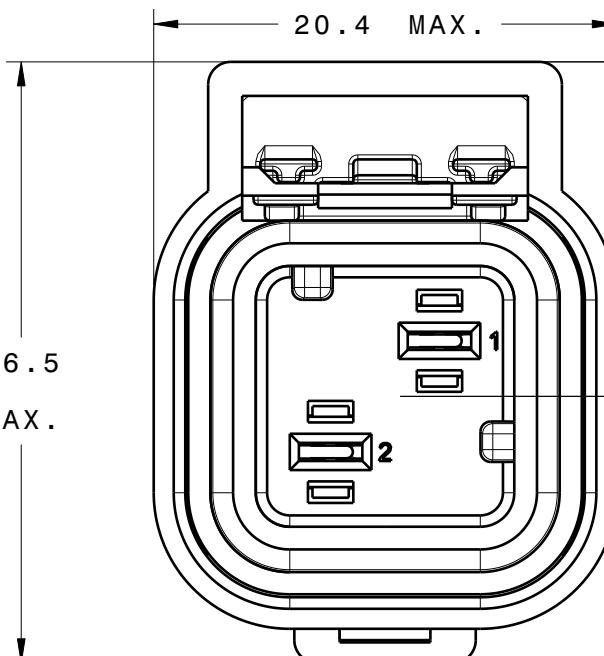


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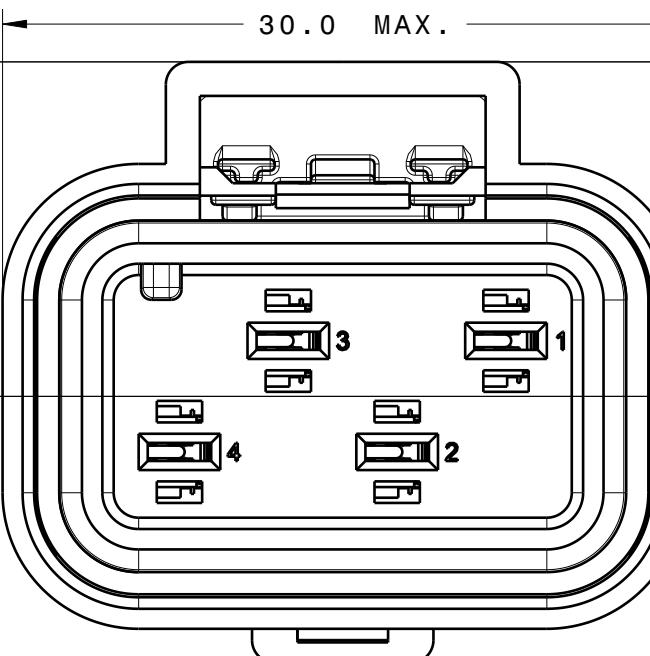


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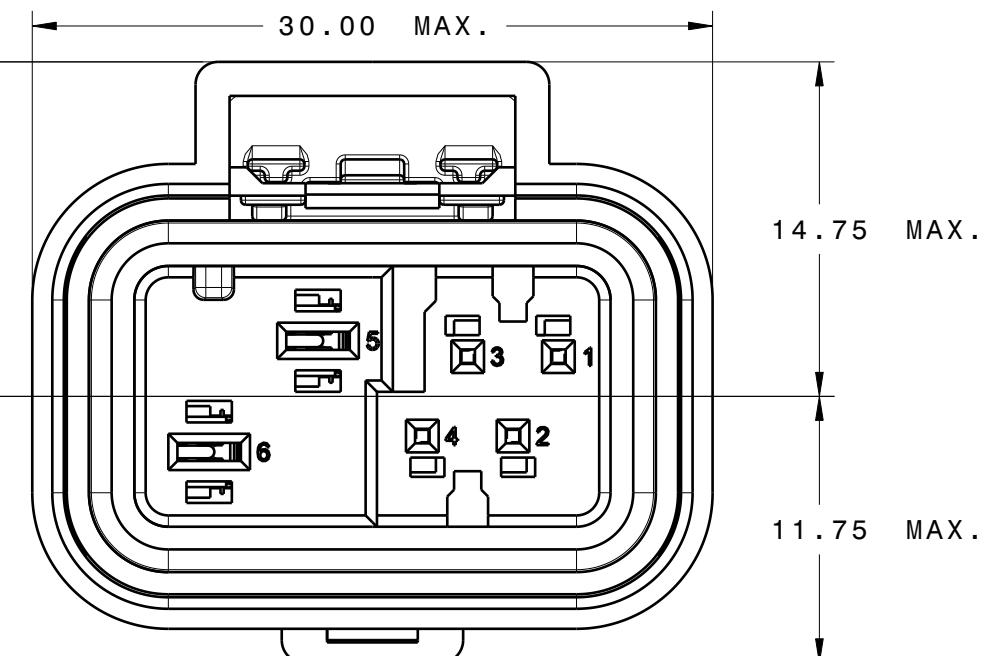
CAVITY NUMBERING:
ENGRAVING POSITION AND SIZE MAY VARY FROM
DRAWING HOWEVER MUST BE CLEARLY VISIBLE.
REQUIRED FOR ALL CAVITIES ON BOTH FRONT AND
REAR OF ALL CONNECTORS.



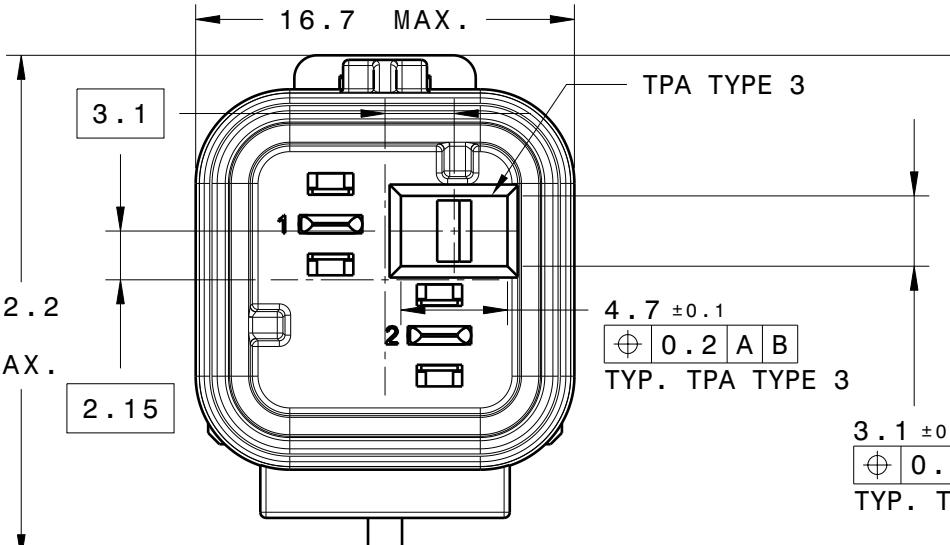
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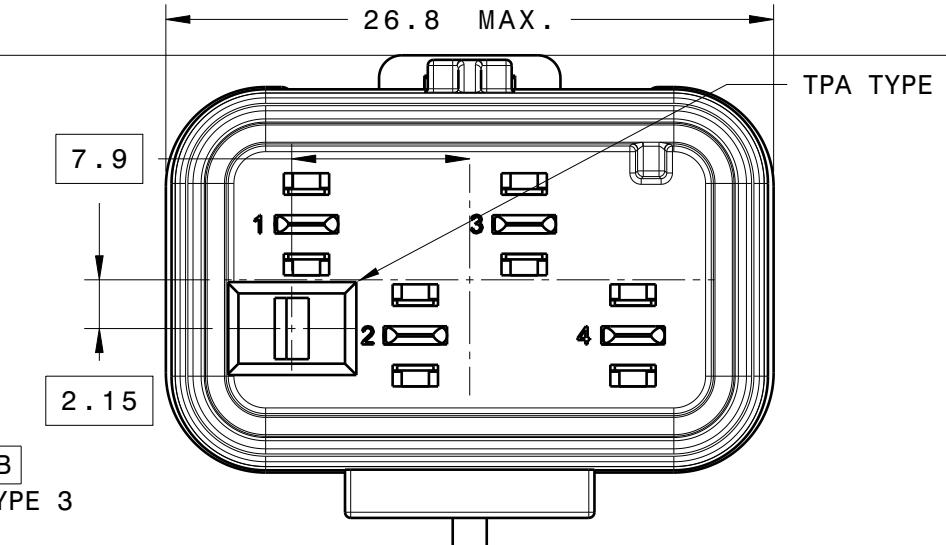
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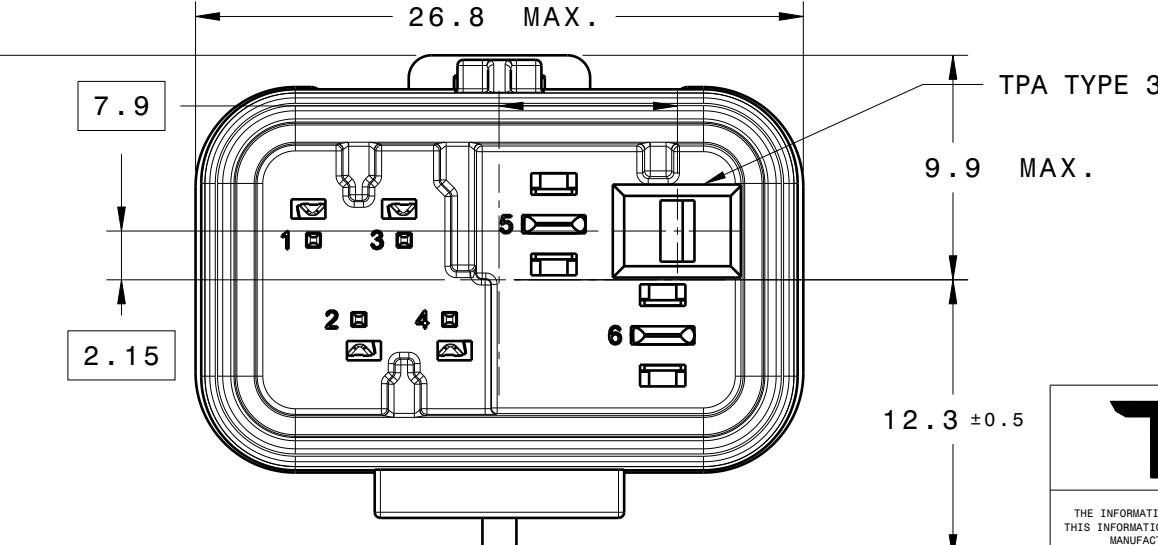
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2280011



4280011



6280011

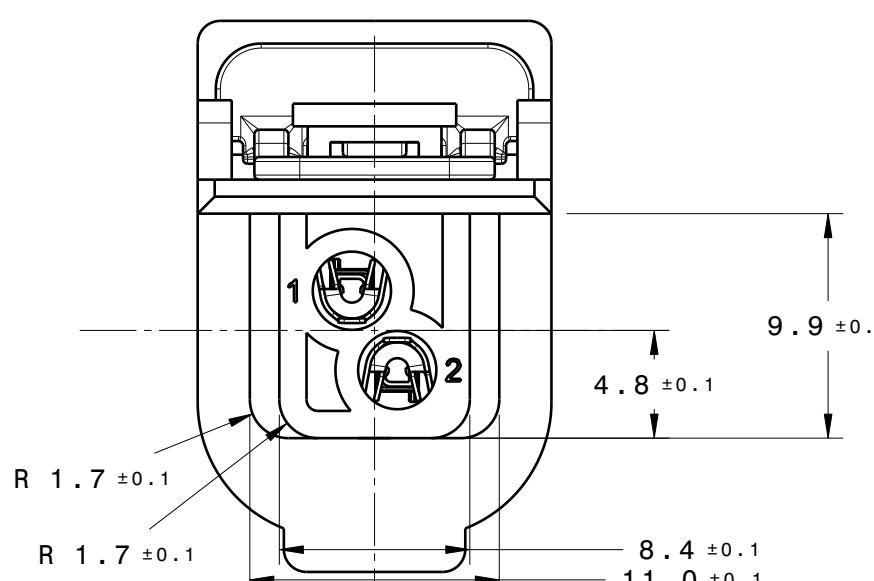
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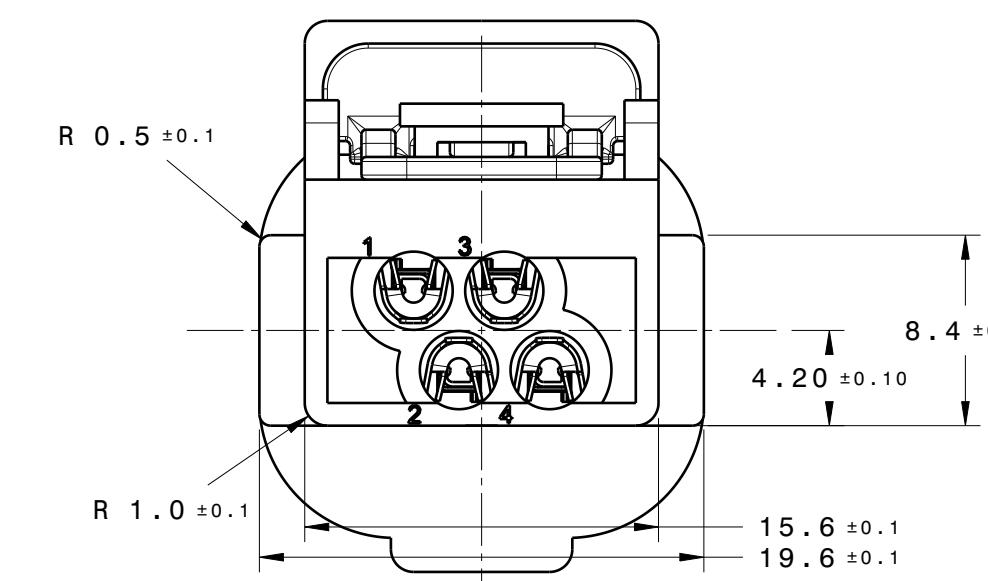
ITEM NAME	LOW VOLTAGE CONNECTOR STANDARD		
ITEM NUMBER	DRW-00456412	REVISION	SHEET
		C.1	5 of 12

REAR CONNECTOR VIEW

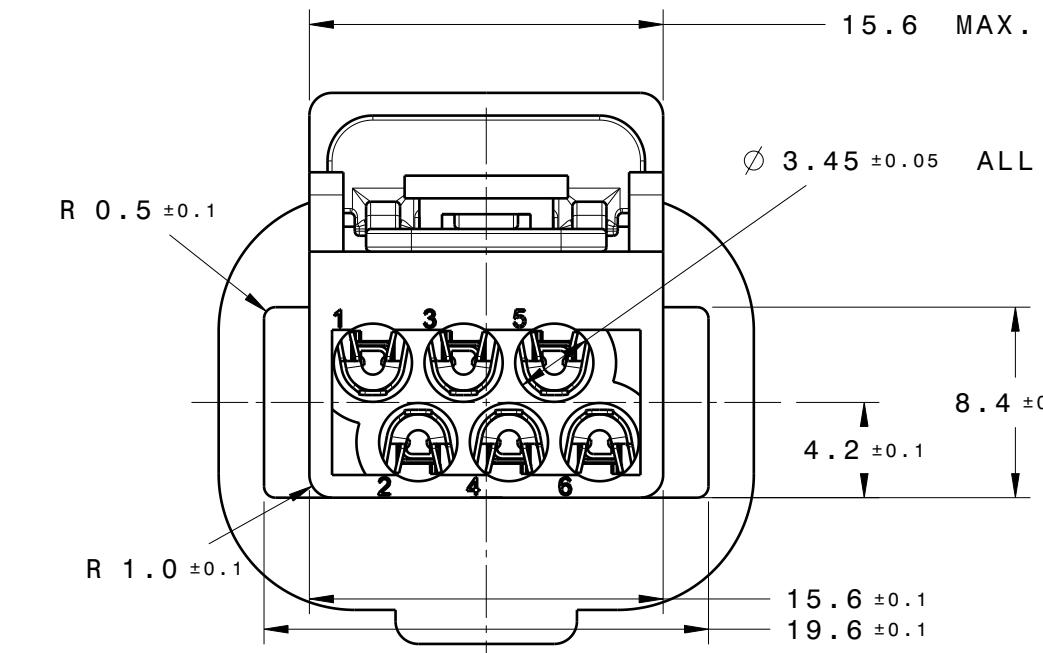
CABLE EXIT AND ACCESSORY RIB FEATURE PRECISION TO ENSURE COMPATIBILITY



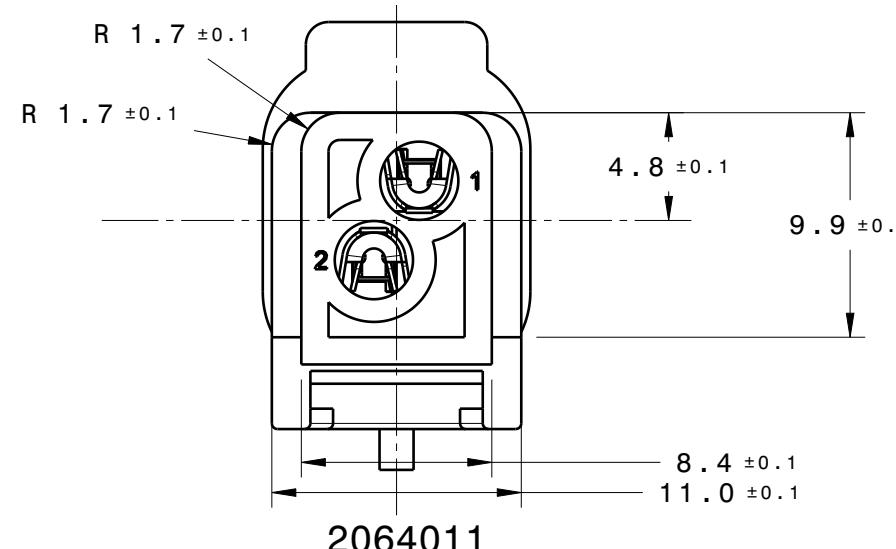
2064012



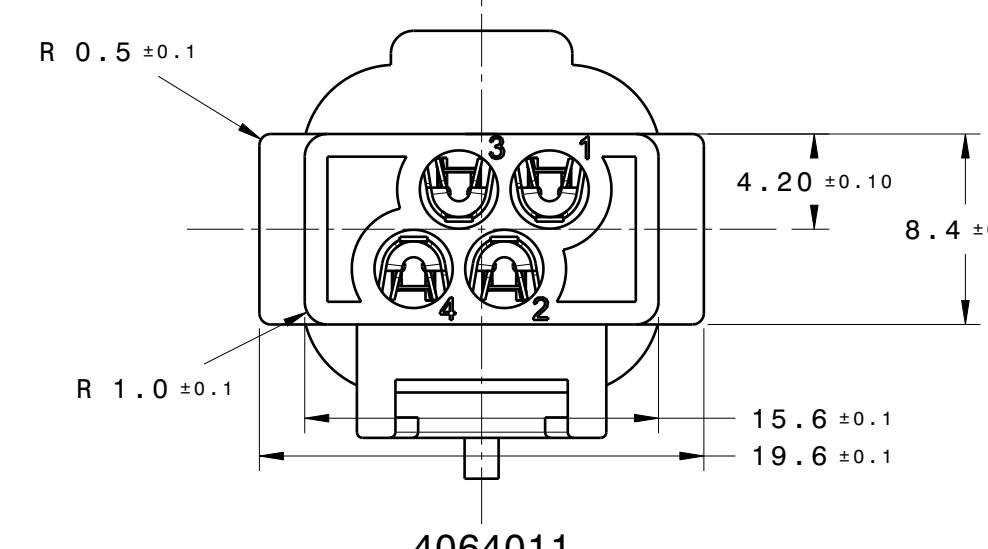
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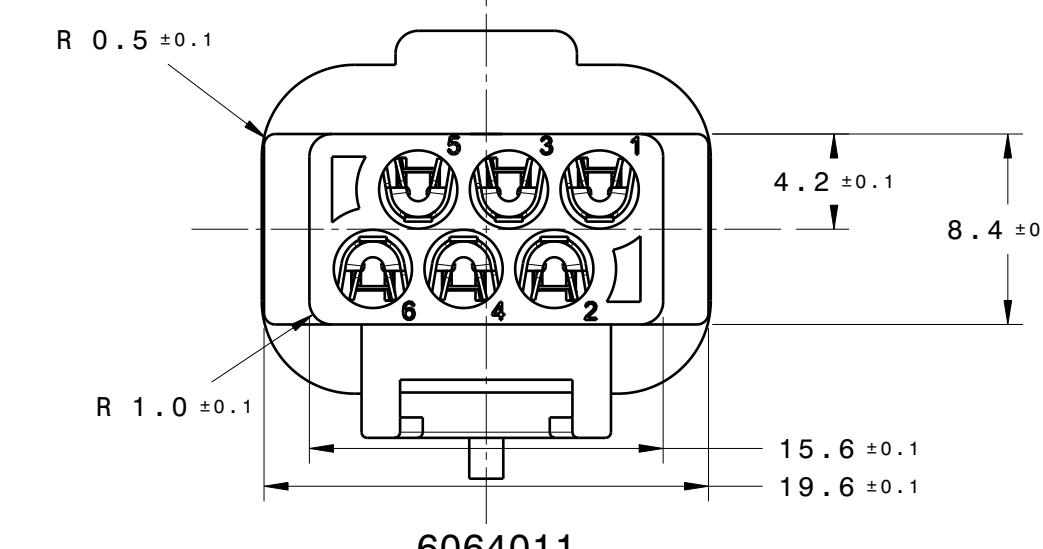
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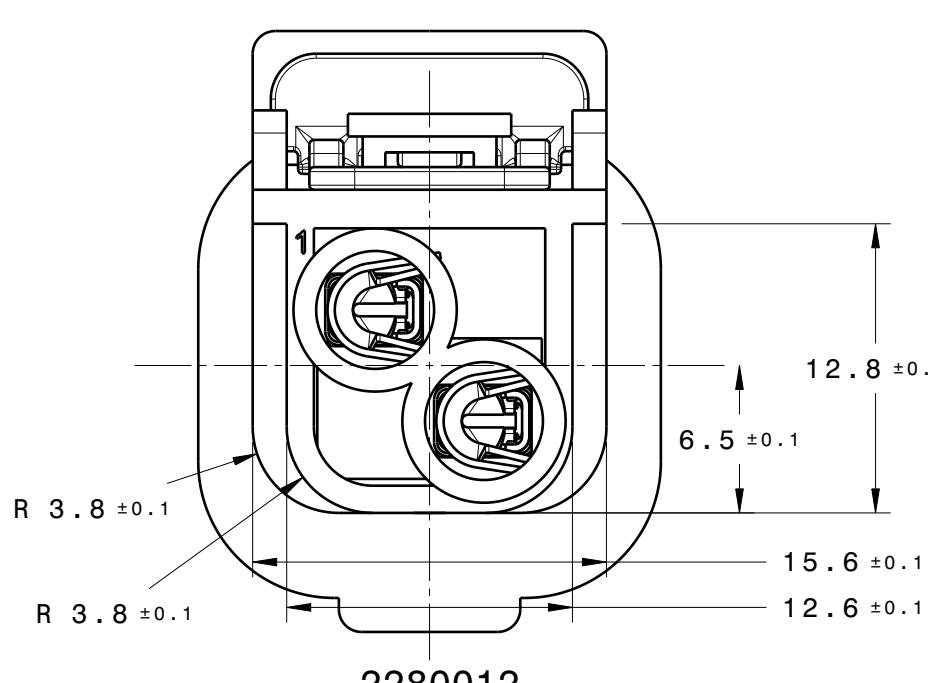
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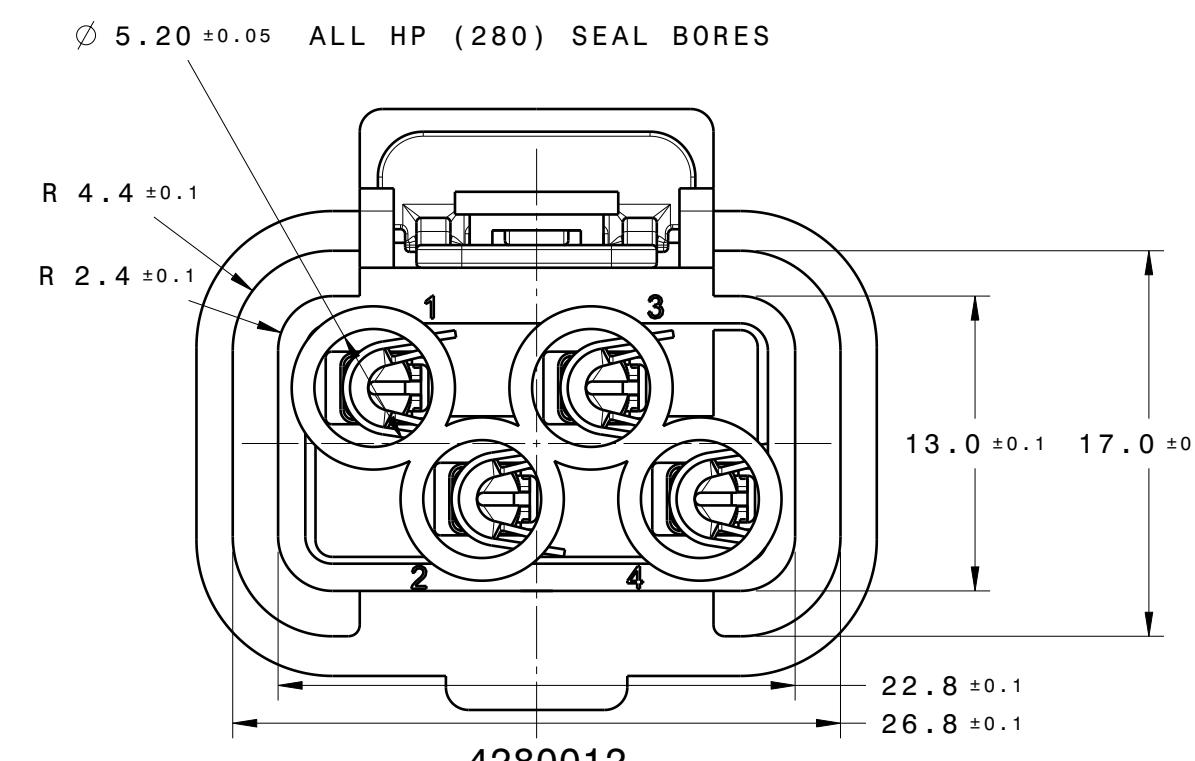
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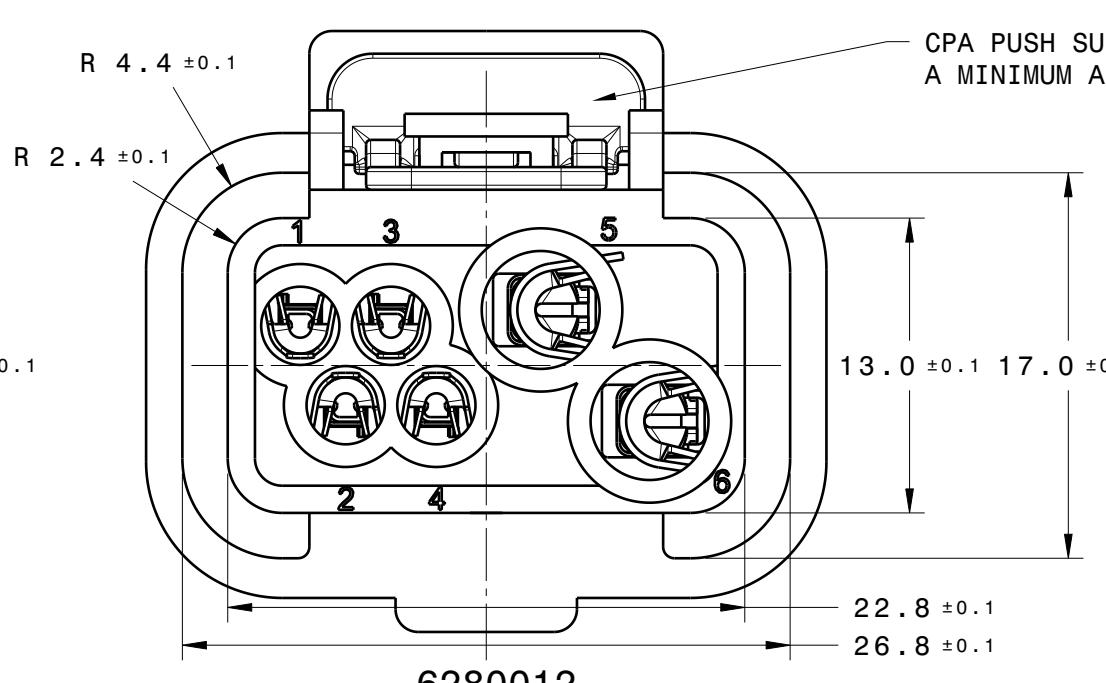
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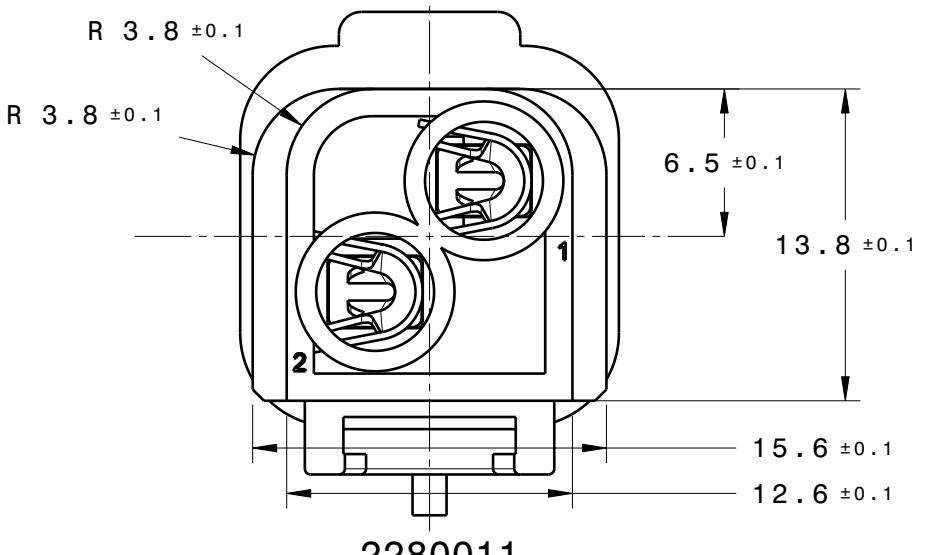
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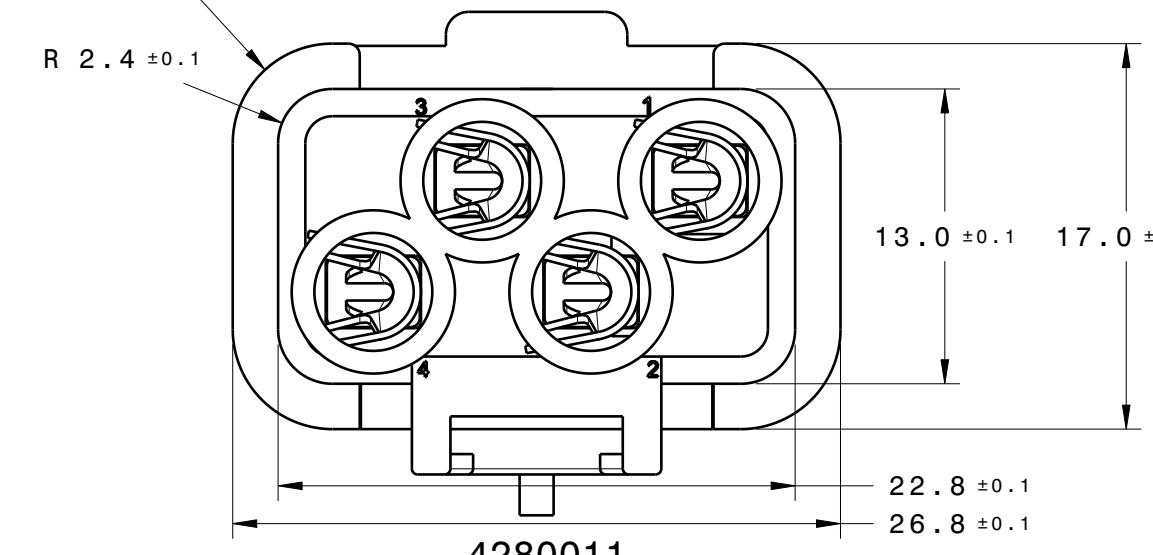
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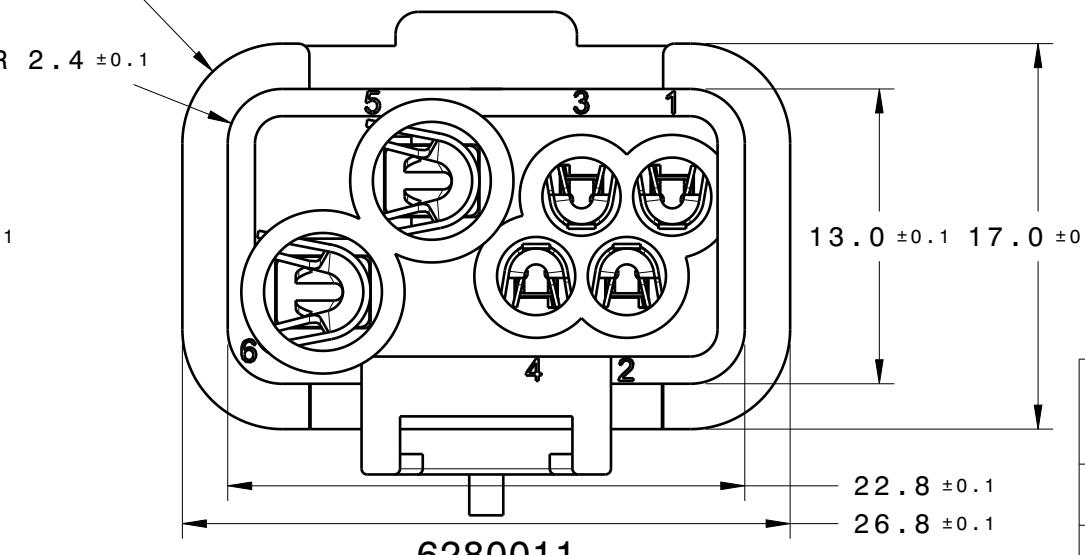
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2280011



4280011

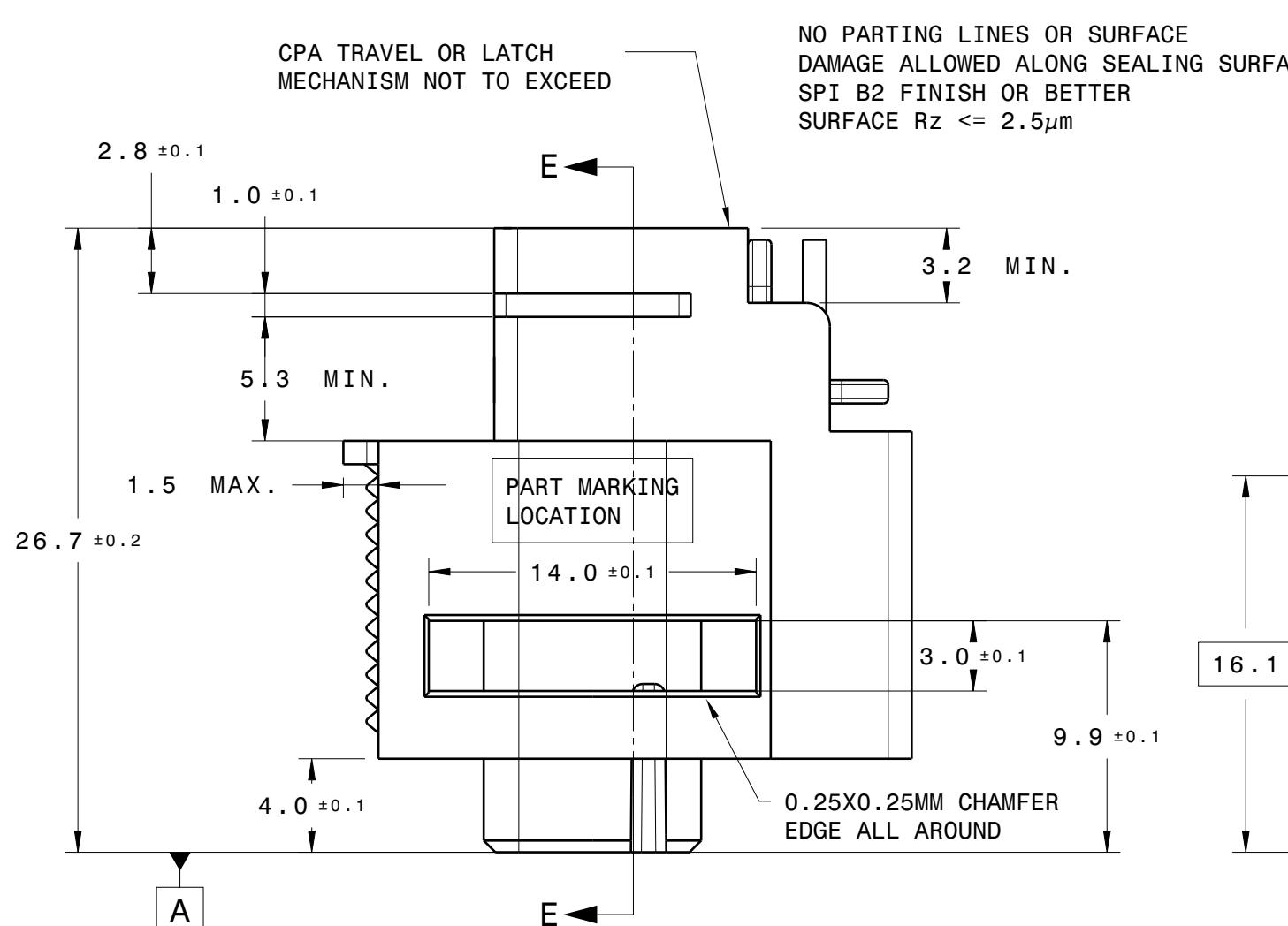


6280011

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ITEM NAME	LOW VOLTAGE CONNECTOR STANDARD		
ITEM NUMBER	DRW-00456412	REVISION	SHEET
	C.1	6 of 12	

LOW POWER (LP) FEMALE CONNECTOR TYPICAL DIMENSIONS



NO PARTING LINES OR SURFACE
DAMAGE ALLOWED ALONG SEALING SURFACE.
SPI B2 FINISH OR BETTER
SURFACE Rz <= 2.5 μ m

SECTION E-E

25.3 ± 0.2

0 MIN.
SEAL LOBES SHALL
END BEFORE
WINDOW OPENING

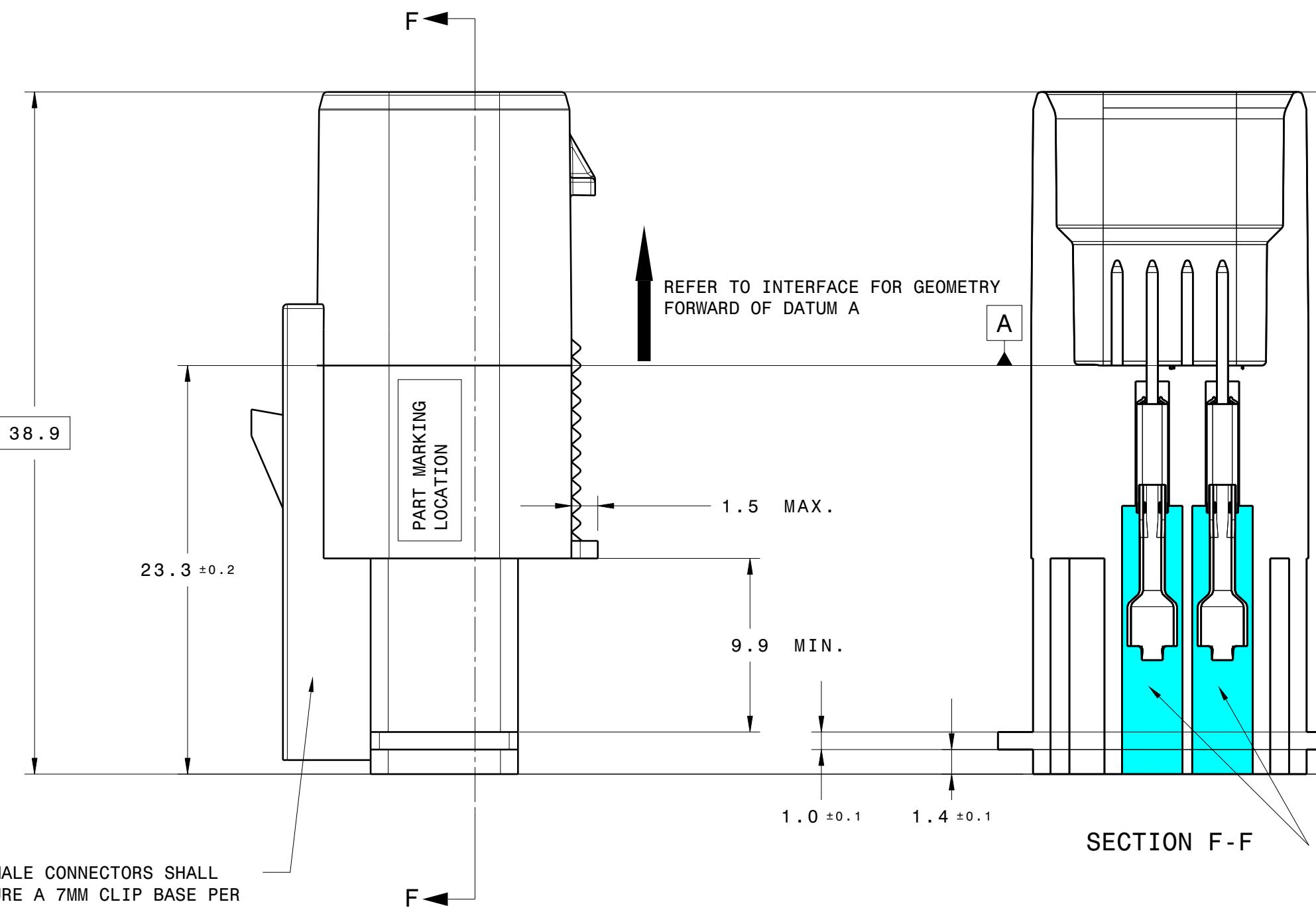
O MIN.
SEAL LOBES SHALL
END BEFORE
WINDOW OPENING

A technical drawing of a mechanical part, likely a bracket or support. The drawing includes several dimension lines and tolerance specifications:

- Top horizontal dimension: $30^\circ \pm 1^\circ$
- Vertical height: 1 ± 0.1
- Bottom horizontal dimension: 4 ± 0.1

The part features a central vertical slot with a semi-circular cutout at the bottom. On either side of this slot are two L-shaped brackets extending downwards and to the left. The overall shape is roughly rectangular with rounded corners and internal features.

LOW POWER (LP) MALE CONNECTOR TYPICAL DIMENSIONS



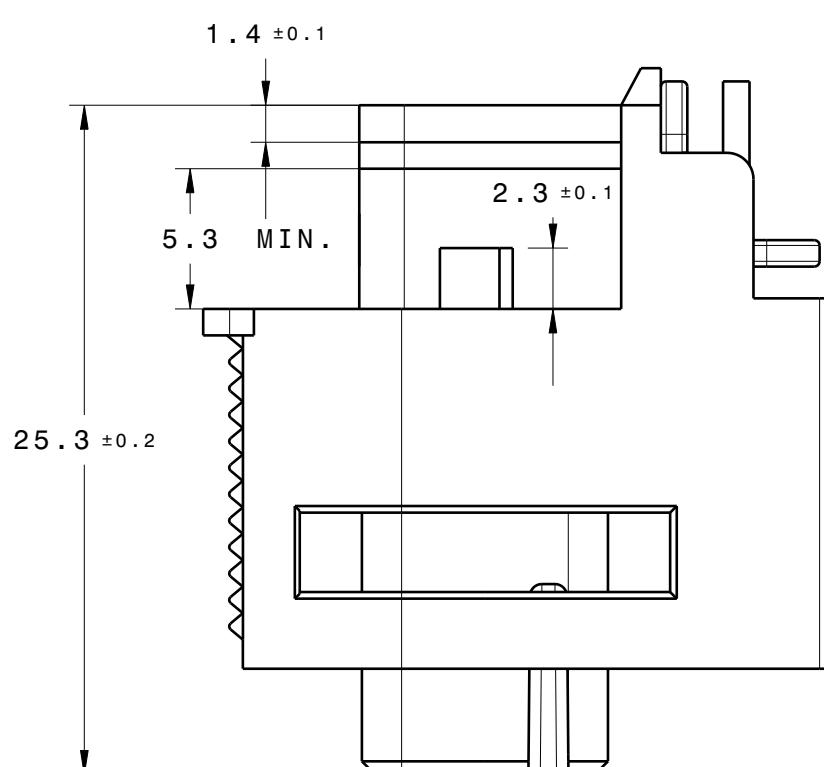
ALL MALE CONNECTORS SHALL
FEATURE A 7MM CLIP BASE PER
EWCAP-005-7

INTERFACE FOR GEOMETRY DATUM A

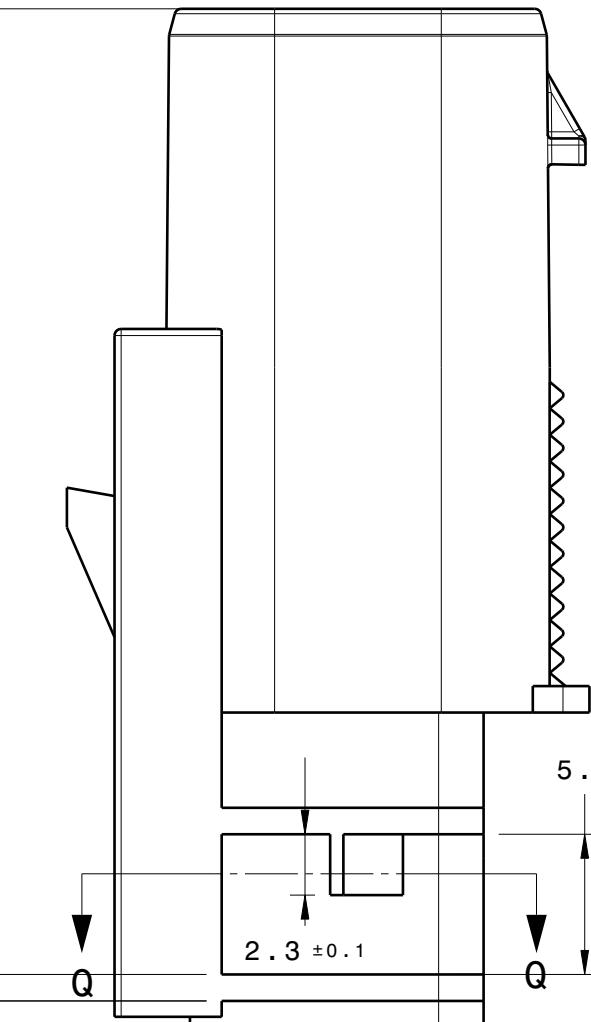
SECTION F-F

NO PARTING LINES OR SURFACE
DAMAGE ALLOWED ALONG SEALING SURFACE
SPI B2 FINISH OR BETTER
SURFACE Rz <= 2.5 μ m

2P LP UNIQUE ACCESSORY ATTACHMENT - FEMALE



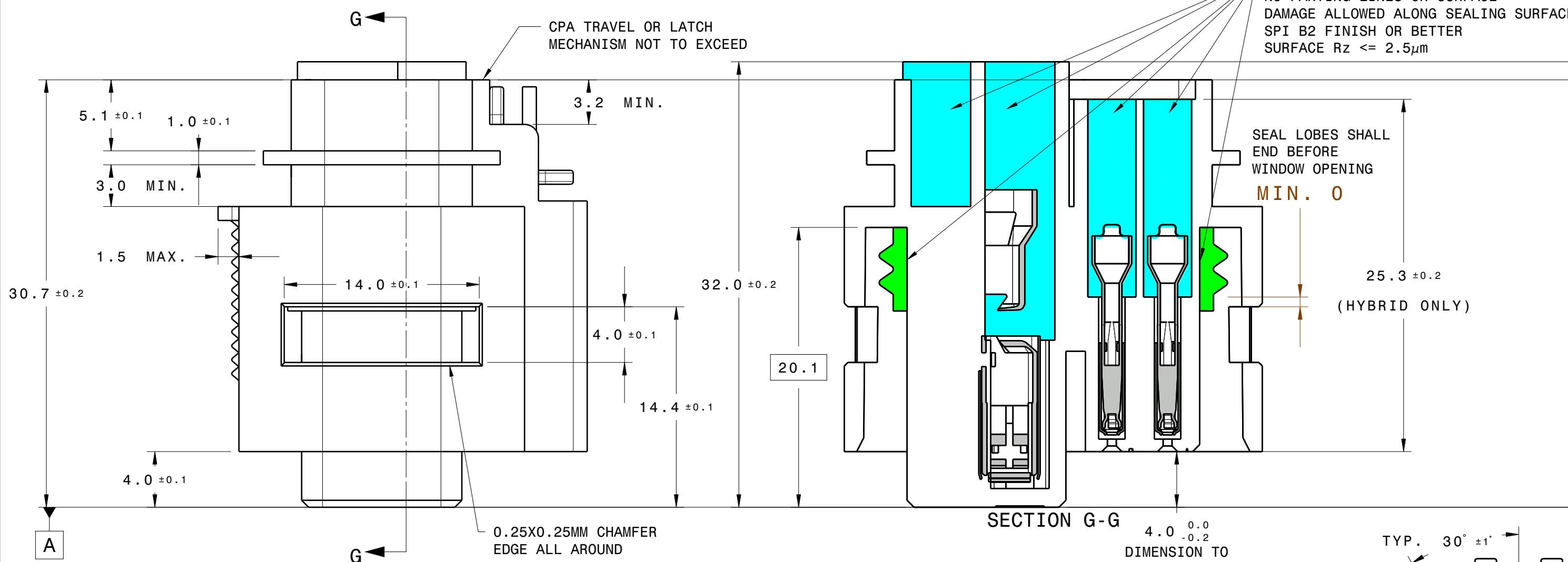
2P LP UNIQUE ACCESSORY ATTACHMENT - MALE



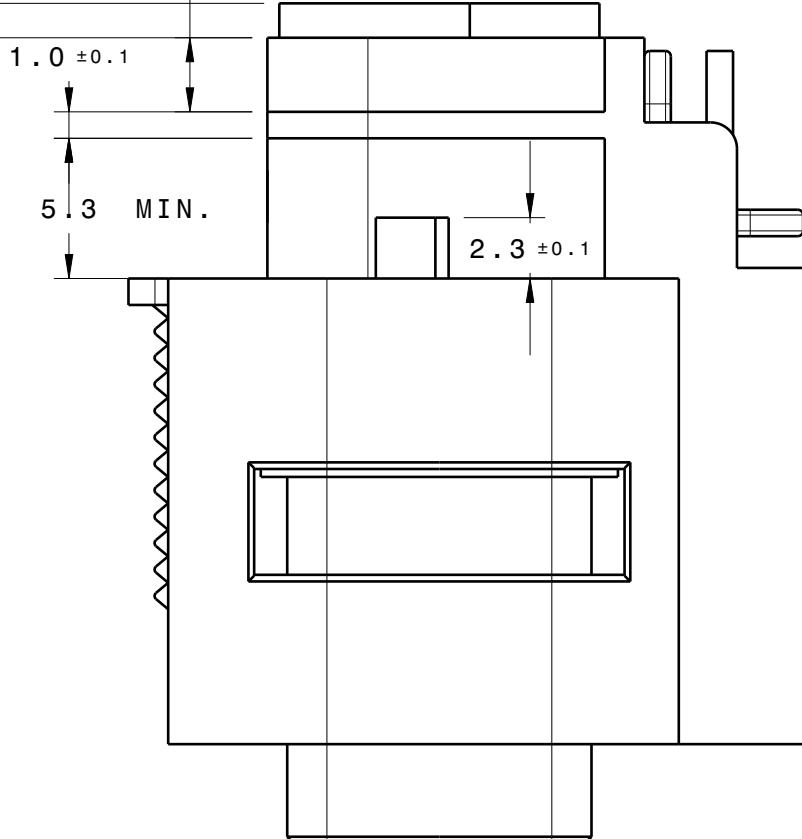
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TION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT,
ACTION, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA INC.

NAME	LOW VOLTAGE CONNECTOR STANDARD		
ER	DRW-00456412	REVISION	SHEET

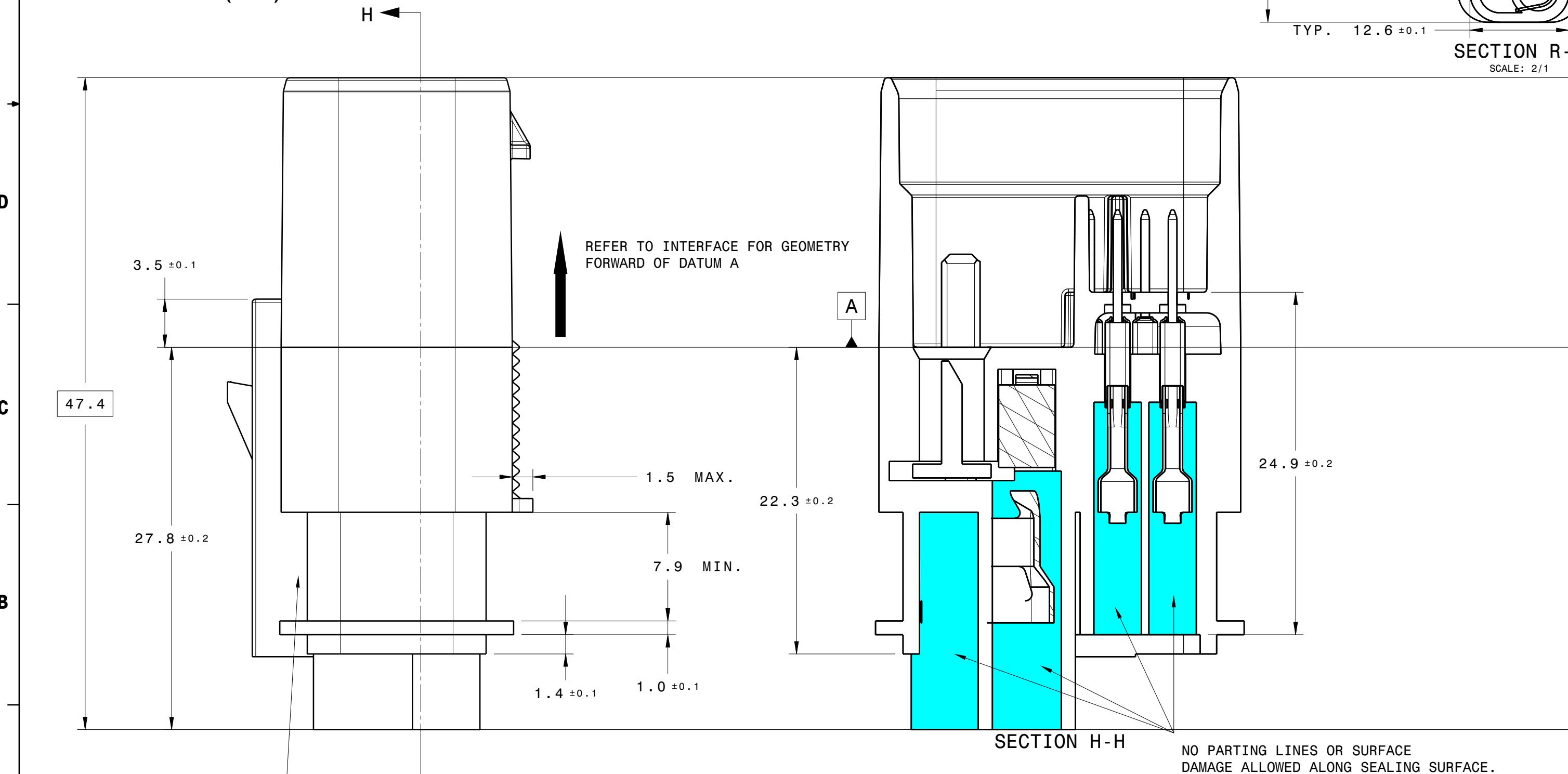
HIGH POWER (HP) AND HYBRID FEMALE CONNECTOR DIMENSIONS



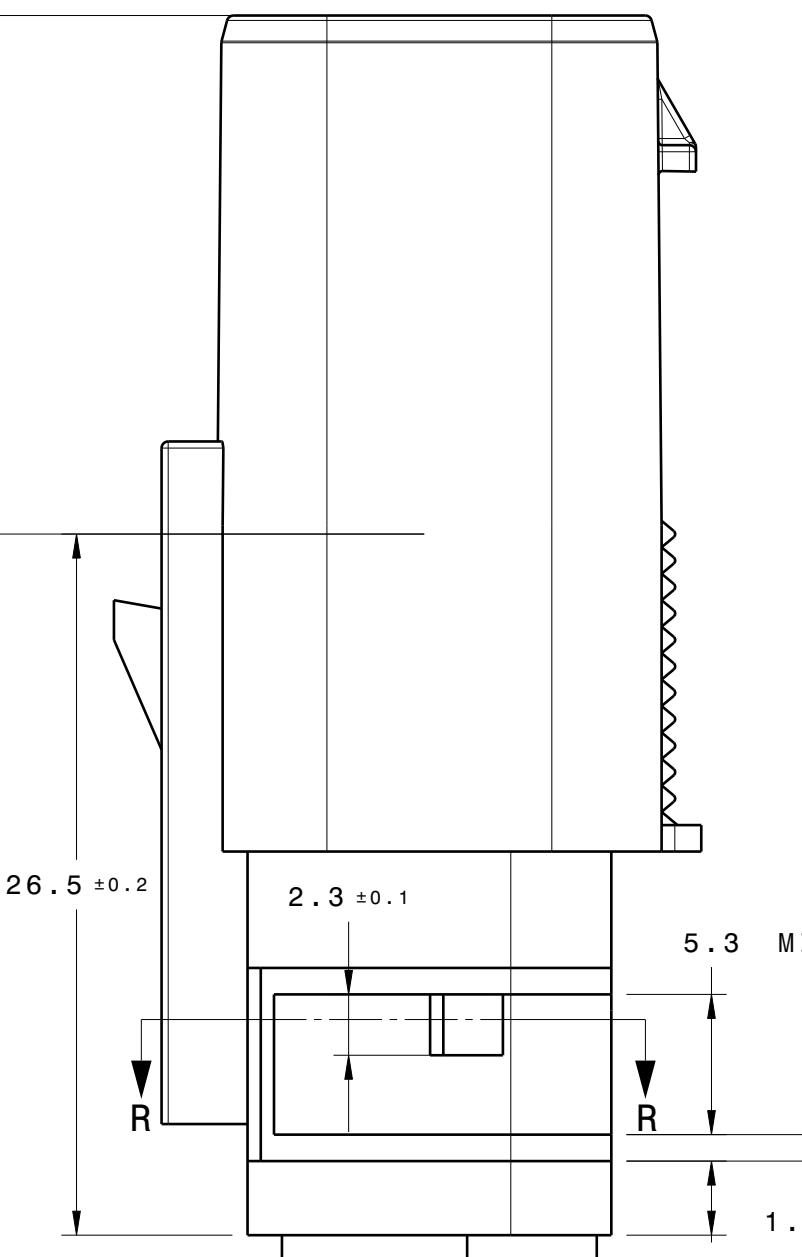
2P HP UNIQUE ACCESSORY ATTACHMENT - FEMALE



HIGH POWER (HP) AND HYBRID MALE CONNECTOR DIMENSIONS



2P HP UNIQUE ACCESSORY ATTACHMENT - MALE



ALL MALE CONNECTORS SHALL FEATURE A 7MM CLIP BASE PER EWCAP-005-7

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ITEM NAME: LOW VOLTAGE CONNECTOR STANDARD

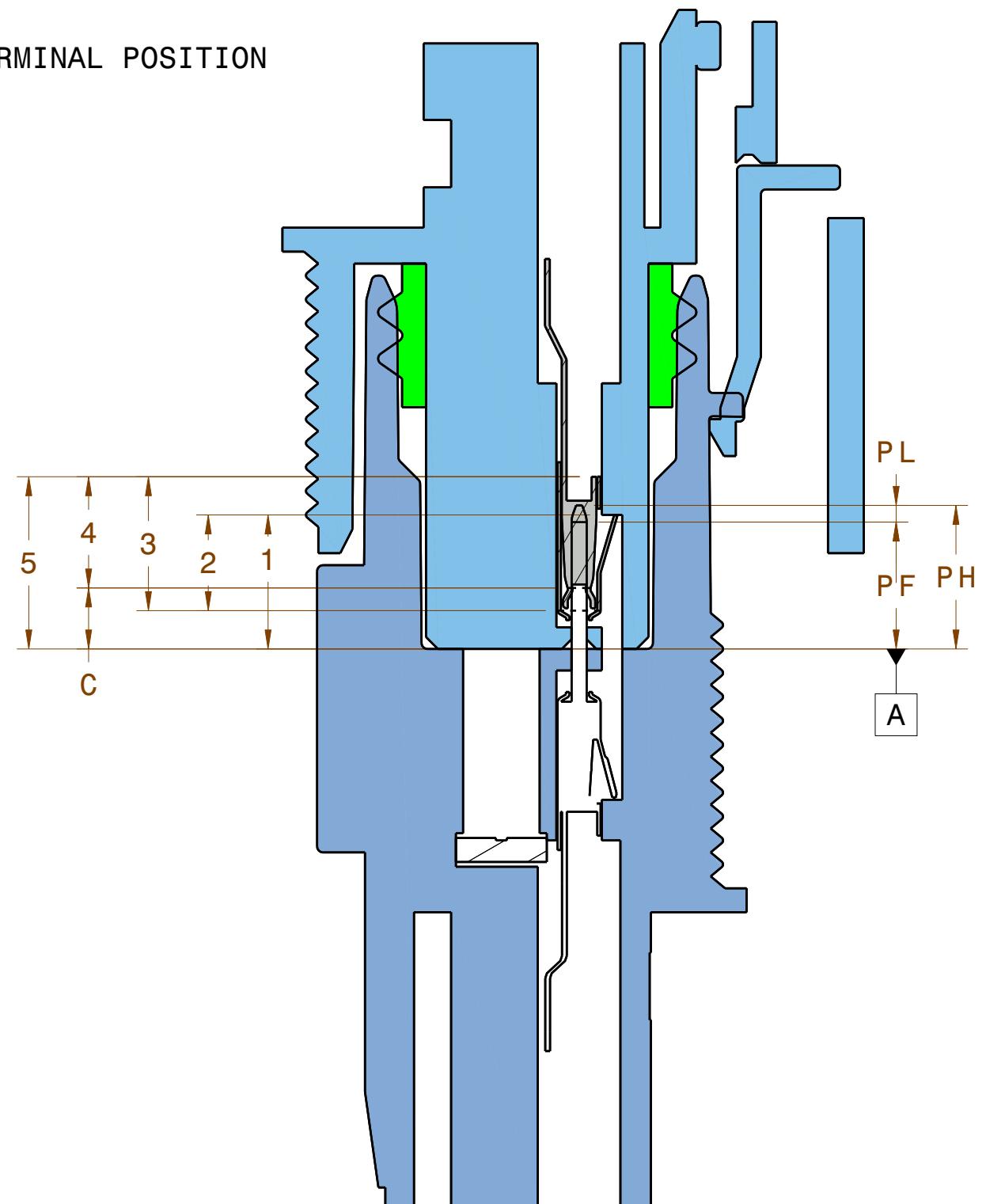
ITEM NUMBER: DRW-00456412

REVISION: C.1

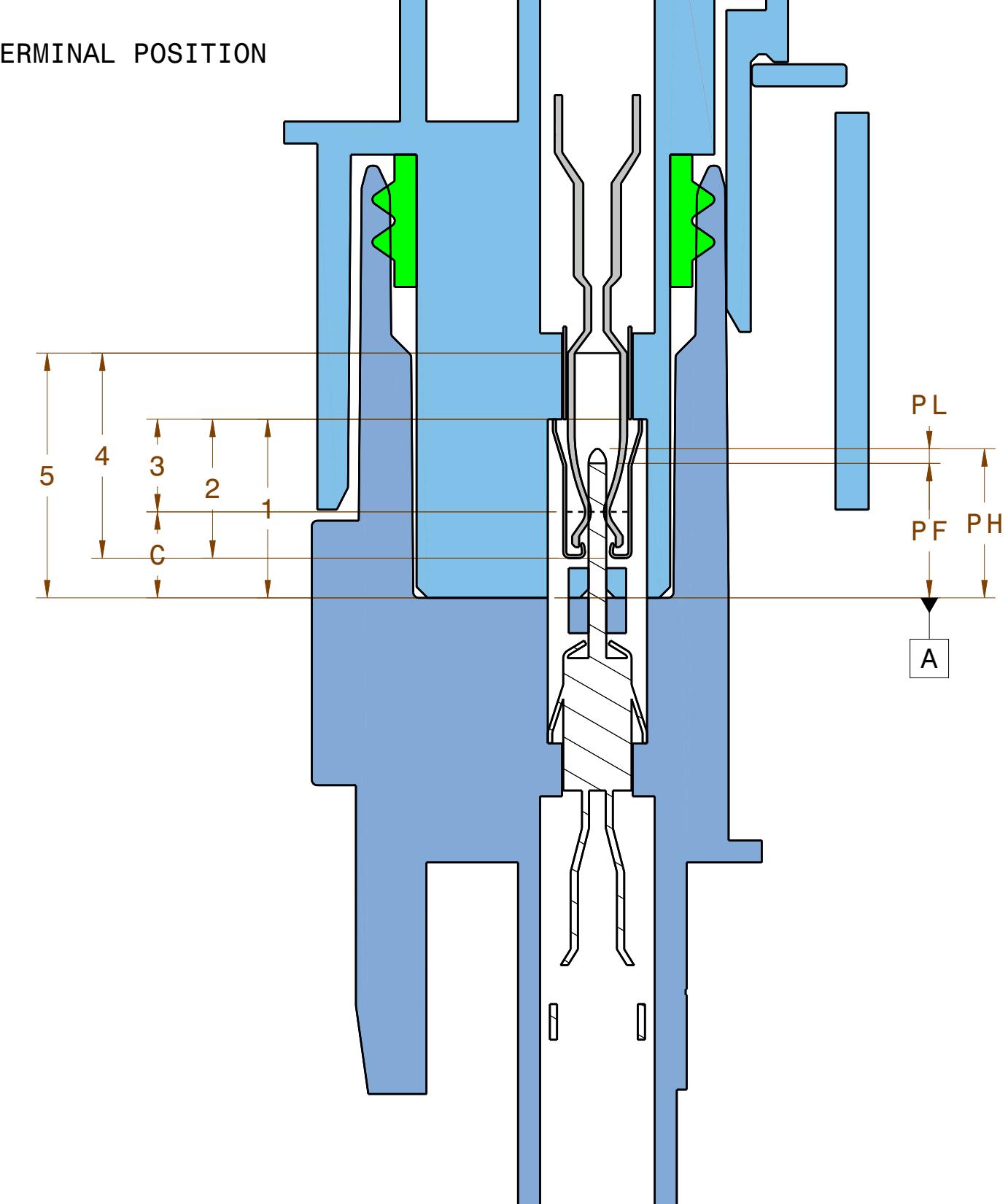
SHEET: 8 of 12

TERMINAL POSITION AND PIN WIPE

0.64 LP TERMINAL POSITION



2.8 HP TERMINAL POSITION



0.64x0.64 - LP

0.64x0.64 - HYBRID

DESCRIPTION	ITEM	FUNCTIONAL		PREFERRED		FUNCTIONAL		PREFERRED	
		MIN. (MM)	MAX. (MM)	MIN. (MM)	MAX. (MM)	MIN. (MM)	MAX. (MM)	MIN. (MM)	MAX. (MM)
HOUSING CAVITY LOCK HEIGHT (DATUM A)	1	5.6	5.4	"	"	9.8	9.4	"	"
TERMINAL FRONT STOP (LANCE LOCK)	2	4.1	3.8	"	"	"	"	"	"
TERMINAL BOX REAR (FRONT STOP)	3	5.8	5.5	"	"	"	"	"	"
TERMINAL CONTACT POINT (BOX REAR)	4	4.6	4.8	"	"	"	"	"	"
CONTACT POINT TO DATUM A (1-2+3-4)	C	2.7	2.3	"	"	"	"	"	"
PIN HEIGHT MIN: (PF + PL) MAX: (5)	PH	4.5	7.1	4.5	6.1	8.7	11.1	8.7	10.1
PIN LEAD IN	PL	0.8	0.5	"	"	"	"	"	"
PIN FUNCTIONAL HEIGHT TO DATUM A (PH-PL)	PF	3.7	6.6	3.7	5.6	7.9	10.6	7.9	9.6
TERMINAL MAX INSERTION DEPTH (1-2+3)	5	7.3	7.1	"	"	11.5	11.1	"	"
TERMINAL WIPE (PF-C)	W	1	4.3	1	3.3	1	4.3	1	3.3
PIN PROTECTION RIB HEIGHT	R	7.1	6.9	"	"	11.1	10.9	"	"
TRANSLATION TOTAL DISENGAGEMENT (PH-1-2)	D	3	5.5	3	4.5	3	5.5	3	4.5

PREFERRED MAX HEIGHT SET BY RIB HEIGHT/USCAR-12 BALL TEST

2.8x0.8 - HYBRID

DESCRIPTION	ITEM	FUNCTIONAL		PREFERRED	
		MIN. (MM)	MAX. (MM)	MIN. (MM)	MAX. (MM)
HOUSING CAVITY LOCK HEIGHT (DATUM A)	1	7.75	7.55	"	"
TERMINAL FRONT STOP (LANCE LOCK)	2	6.35	6.15	"	"
TERMINAL CONTACT POINT (LANCE LOCK)	3	3.8	4.5	"	"
TERMINAL BOX REAR (FRONT STOP)	4	10.15	8.7	"	"
CONTACT POINT TO DATUM A (1-3)	C	3.95	3.05	"	"
PIN HEIGHT MIN: (PF + PL) MAX: (5)	PH	6.3	10.1	8.1	10.1
PIN LEAD IN	PL	1.3	1.1	"	"
PIN FUNCTIONAL HEIGHT TO DATUM A (PH-PL)	PF	5	9	6.8	9
TERMINAL MAX INSERTION DEPTH (1-2+4)	5	11.55	10.1	"	"
TERMINAL WIPE (PF-C)	W	1.05	5.95	2.85	5.95
PIN PROTECTION RIB HEIGHT	R	11.1	10.9	"	"
TRANSLATION TOTAL DISENGAGEMENT (PH-1-3)	D	2.35	7.05	6.7	8.7

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ITEM NAME: LOW VOLTAGE CONNECTOR STANDARD

ITEM NUMBER: DRW-00456412 REVISION: C.1 SHEET: 9 of 12

TERMINAL AND SEAL USAGE

064 TERMINALS SHALL BE TE MQS PART NUMBERS SPECIFIED BELOW OR A CAVITY COMPATIBLE EQUIVALENT MEETING ALL SPECIFIED DIMENSIONS IN THIS DOCUMENT AND DEMONSTRATED TO EQUAL OR EXCEED ELECTRICAL AND THERMAL PERFORMANCE. DETAILED INTERNAL CAVITY DIMENSIONS SHALL BE SPECIFIED BY THE TERMINAL SUPPLIER.

280 TERMINALS SHALL BE TE MCP PART NUMBERS SPECIFIED BELOW OR A CAVITY COMPATIBLE EQUIVALENT MEETING ALL SPECIFIED DIMENSIONS IN THIS DOCUMENT AND DEMONSTRATED TO EQUAL OR EXCEED ELECTRICAL AND THERMAL PERFORMANCE. DETAILED INTERNAL CAVITY DIMENSIONS SHALL BE SPECIFIED BY THE TERMINAL SUPPLIER.

COMPATIBLE SEALS AND PLUGS SHALL BE PART NUMBERS SPECIFIED BELOW OR AN EQUIVALENT DEMONSTRATED TO MEET ALL PERFORMANCE REQUIREMENTS SPECIFIED IN THIS DOCUMENT.

064 FEMALE TERMINALS

Part No.	Terminal Description	Size	Wire (mm²)	Material	Plating	TETERMINAL	TE SEAL	TE CAV. PLUG
2129805-00-A	TERM,REC,MQS 4PT,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Sn	2141826-1	967067-2	967056-1
2129805-01-A	TERM,REC,MQS 4PT,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Sn	5-962885-1		
2129805-02-A	TERM,REC,MQS 4PT,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Sn	5-965906-1		
2129805-20-A	TERM,REC,MQS 4PT,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Ag	2141826-6		
2129805-21-A	TERM,REC,MQS 4PT,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Ag	5-962885-6		
2129805-22-A	TERM,REC,MQS 4PT,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Ag	5-965906-6		
2129805-10-A	TERM,REC,MQS 4PT,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Au	2141826-5		
2129805-11-A	TERM,REC,MQS 4PT,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Au	5-962885-5		
2129805-12-A	TERM,REC,MQS 4PT,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Au	5-965906-5		
Part No.	Terminal Description	Size	Wire (mm²)	Material	Plating	TETERMINAL	TE SEAL	TE CAV. PLUG
2039298-00-A	TERM,REC,MQS 2PT,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Sn	2479123-1		
2039298-01-A	TERM,REC,MQS 2PT,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Sn	2479013-1		
2039298-02-A	TERM,REC,MQS 2PT,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Sn	2479014-1		
2039298-20-A	TERM,REC,MQS 2PT,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Ag	2479123-6		
2039298-21-A	TERM,REC,MQS 2PT,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Ag	2479013-6		
2039298-22-A	TERM,REC,MQS 2PT,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Ag	2479014-6		

064 MALE TERMINALS

Part No.	Terminal Description	Size	Wire (mm²)	Material	Plating	TETERMINAL	TE SEAL	TE CAV. PLUG
2035352-00-A	TERM,TAB,MQS,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Sn	2141830-1	967067-2	967056-1
2035352-01-A	TERM,TAB,MQS,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Sn	5-962886-1		
2035352-02-A	TERM,TAB,MQS,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Sn	5-965908-1		
2035352-20-A	TERM,TAB,MQS,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Ag	2141830-3		
2035352-21-A	TERM,TAB,MQS,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Ag	5-962886-3		
2035352-22-A	TERM,TAB,MQS,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Ag	5-965908-3		
2035352-10-A	TERM,TAB,MQS,LL,S,064,0.13-0.17	064	0.13-0.17	CuNiSi	Au	2141830-2		
2035352-11-A	TERM,TAB,MQS,LL,S,064,0.25-0.35	064	0.25-0.35	CuNiSi	Au	5-962886-2		
2035352-12-A	TERM,TAB,MQS,LL,S,064,0.5-0.75	064	0.5-0.75	CuNiSi	Au	5-965908-2		

280 FEMALE TERMINALS

Part No.	Terminal Description	Size	Wire (mm²)	Material	Plating	TETERMINAL	TE SEAL	TE CAV. PLUG
1086556-00-A	TERM,REC,MCP,LL,S,280,0.2-0.5	280	0.2-0.5	CuNiSi	Sn	1-2141859-1	828904-1	828922-1
1086556-01-A	TERM,REC,MCP,LL,S,280,0.5-1	280	0.5-1	CuNiSi	Sn	1-968855-1?		
1086556-02-A	TERM,REC,MCP,LL,S,280,1.5-2.5	280	1.5-2.5	CuNiSi	Sn	1-968857-1		
1086556-03-A	TERM,REC,MCP,LL,S,280,12 AWG	280	12 AWG	CuNiSi	Sn	1-1719506-1		
1086556-04-A	TERM,REC,MCP,LL,S,280,4	280	4	CuNiSi	Sn	1-968859-1		
1086556-20-A	TERM,REC,MCP,LL,S,280,0.2-0.5	280	0.2-0.5	CuNiSi	Ag	1-2141859-3		
1086556-21-A	TERM,REC,MCP,LL,S,280,0.5-1	280	0.5-1	CuNiSi	Ag	1-968855-3		
1086556-22-A	TERM,REC,MCP,LL,S,280,1.5-2.5	280	1.5-2.5	CuNiSi	Ag	1-968857-3		
1086556-23-A	TERM,REC,MCP,LL,S,280,12 AWG	280	12 AWG	CuNiSi	Ag	1-1719506-3		
1086556-24-A	TERM,REC,MCP,LL,S,280,4	280	4	CuNiSi	Ag	1-968859-3		
1086556-10-A	TERM,REC,MCP,LL,S,280,0.2-0.5	280	0.2-0.5	CuNiSi	Au	1-2141859-2		
1086556-11-A	TERM,REC,MCP,LL,S,280,0.5-1	280	0.5-1	CuNiSi	Au	1-968855-2		
1086556-12-A	TERM,REC,MCP,LL,S,280,1.5-2.5	280	1.5-2.5	CuNiSi	Au	1-968857-2		

280 MALE TERMINALS

Part No.	Terminal Description	Size	Wire (mm²)	Material	Plating	TETERMINAL	TE SEAL	TE CAV. PLUG
2129809-30-A	TERM,TAB,MCP,LL,S,280,0.2-0.5	280	0.2-0.5	CuSn	Sn	1-965982-1	828904-1	828922-1
2129809-31-A	TERM,TAB,MCP,LL,S,280,0.5-1	280	0.5-1	CuSn	Sn	1-962915-1		
2129809-32-A	TERM,TAB,MCP,LL,S,280,1-2.5	280	1-2.5	CuSn	Sn	1-962916-1		
2129809-33-A	TERM,TAB,MCP,LL,S,280,12 AWG	280	12 AWG	CuSn	Sn	1-1719504-1		
2129809-34-A	TERM,TAB,MCP,LL,S,280,2.5-4	280	2.5-4	CuSn	Sn	1-968947-1		
2129809-50-A	TERM,TAB,MCP,LL,S,280,0.5-1	280	0.5-1	CuSn	Ag	1-962915-2		
2129809-51-A	TERM,TAB,MCP,LL,S,280,1-2.5	280	1-2.5	CuSn	Ag	1-962916-2		
2129809-52-A	TERM,TAB,MCP,LL,S,280,12 AWG	280	12 AWG	CuSn	Ag	1-1719504-2		
2129809-53-A	TERM,TAB,MCP,LL,S,280,2.5-4	280	2.5-4	CuSn	Ag	1-968947-2		
2129809-40-A	TERM,TAB,MCP,LL,S,280,0.2-0.5	280	0.2-0.5	CuSn	Au	1-965982-3		
2129809-41-A	TERM,TAB,MCP,LL,S,280,0.5-1	280	0.5-1	CuSn	Au	1-962915-3		
2129809-42-A	TERM,TAB							

MALE ISL (INDEPENDANT SECONDARY LOCK)

TPA TYPE 3 DETAILED IN TESLA DRW-00456412

ADDITIONAL REQUIREMENTS (ALL):

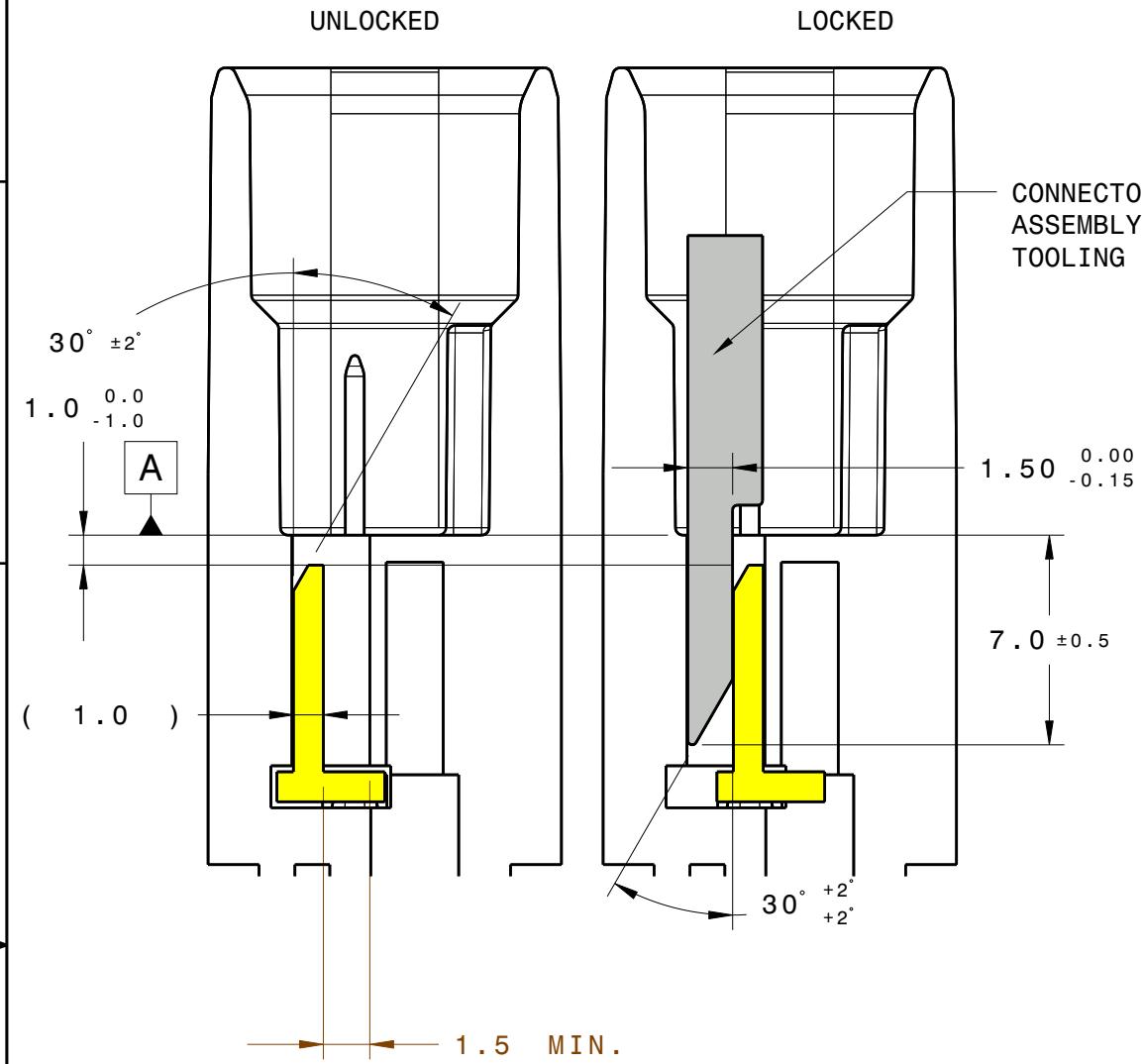
TRAVEL TO LOCK: 1.5MM MIN.

CONNECTOR TPA LOCKING FORCES: PER USCAR-2

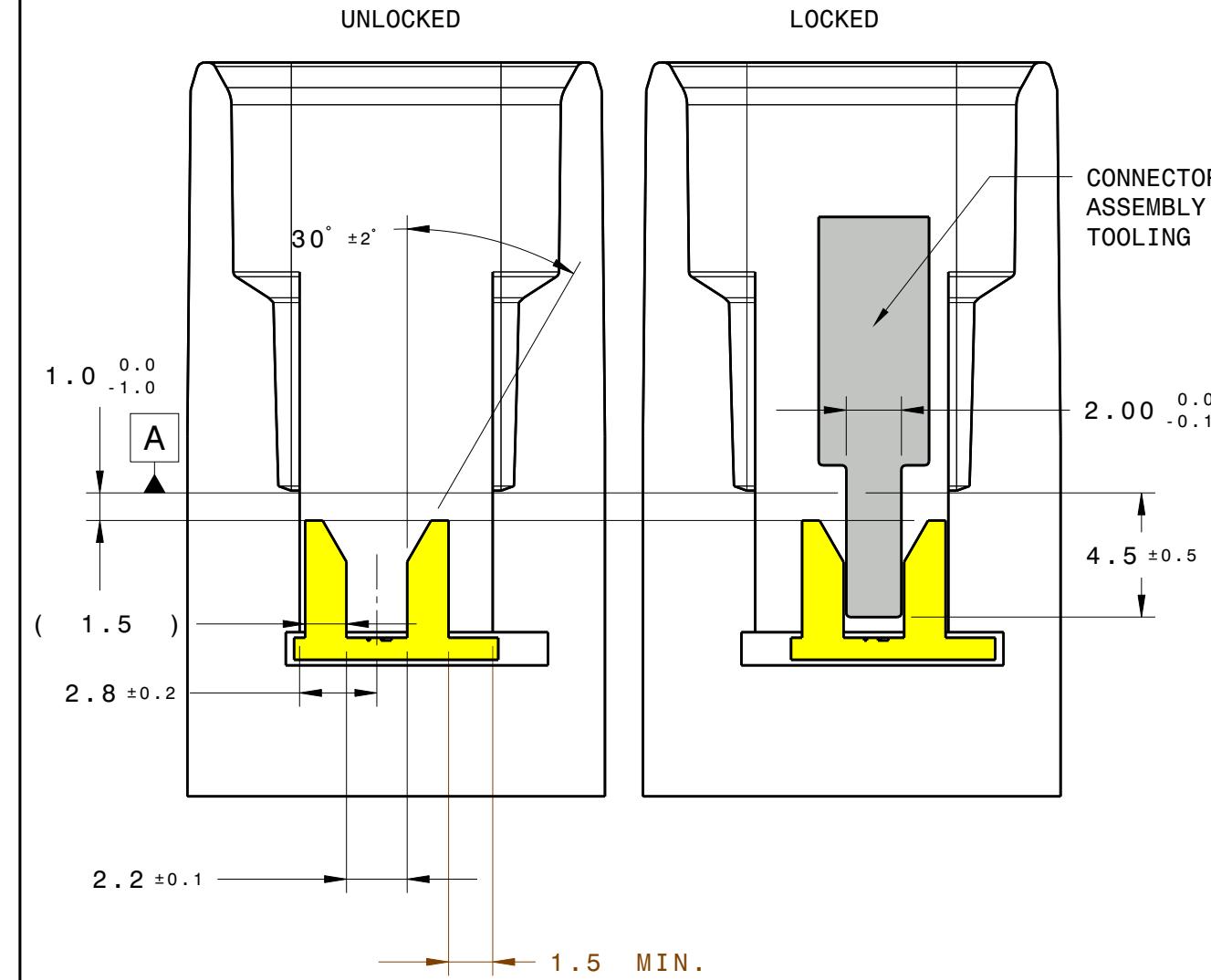
CONNECTOR/TPA OVER TRAVEL FORCE WITHSTAND: 65N

CONNECTOR ASSEMBLY TOOLING APPLIED FORCE: 60N MIN. - 65N MAX

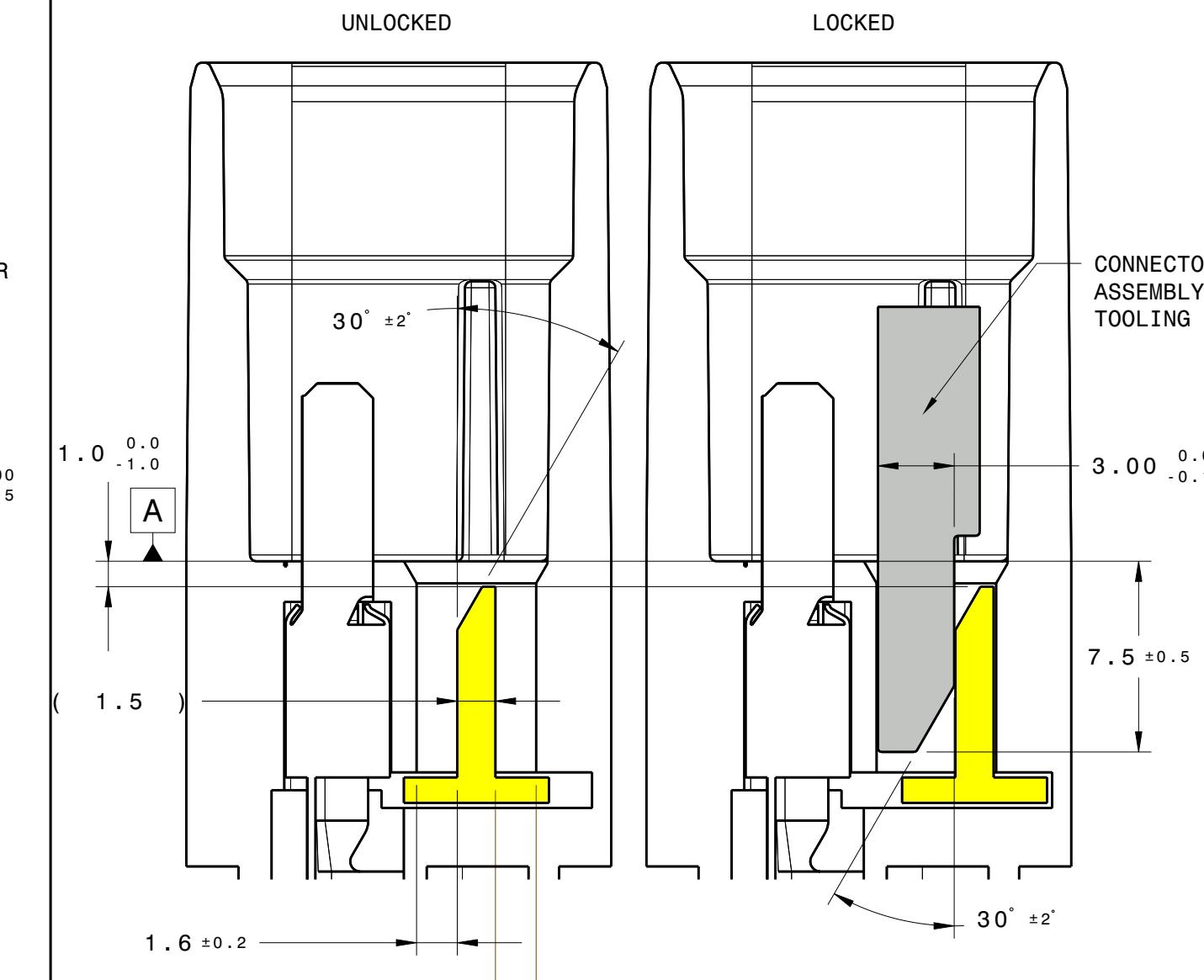
TPA TYPE 1 DETAIL



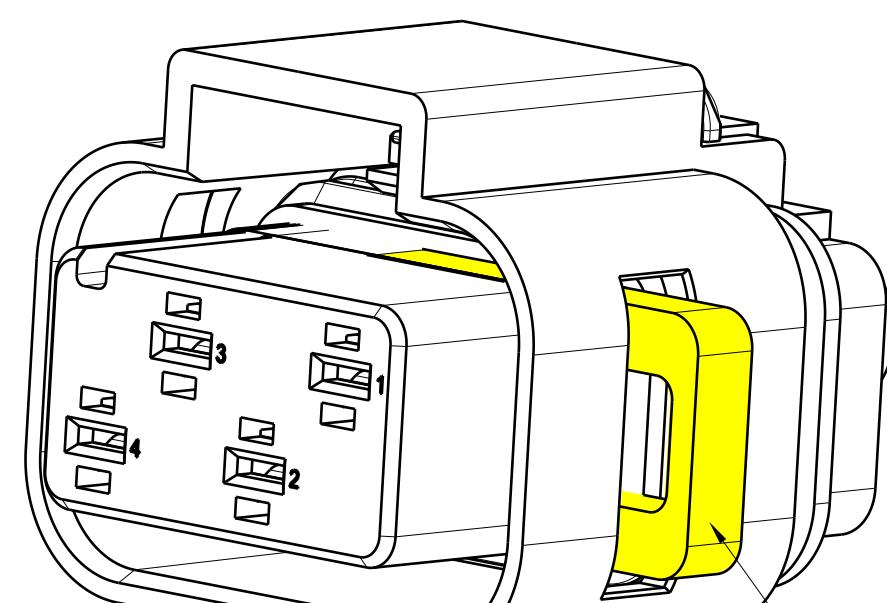
TPA TYPE 2 DETAIL



TPA TYPE 3 DETAIL



FEMALE ISL (INDEPENDANT SECONDARY LOCK)

ISOMETRIC
SCALE: 3/1

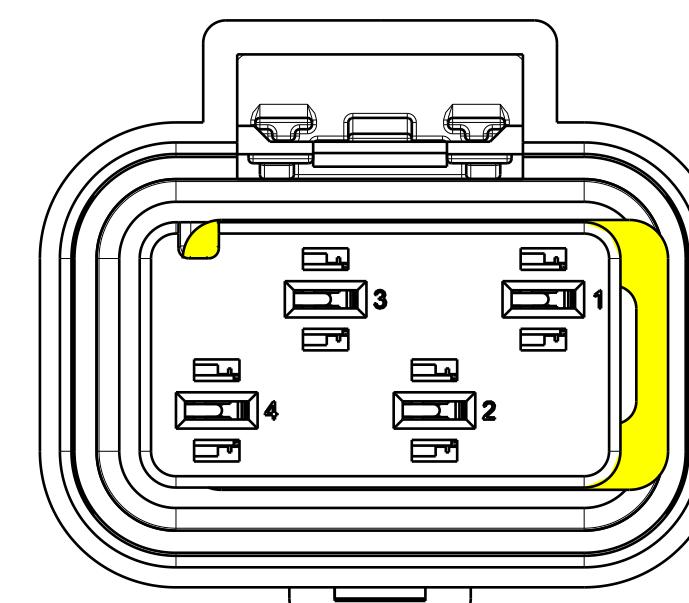
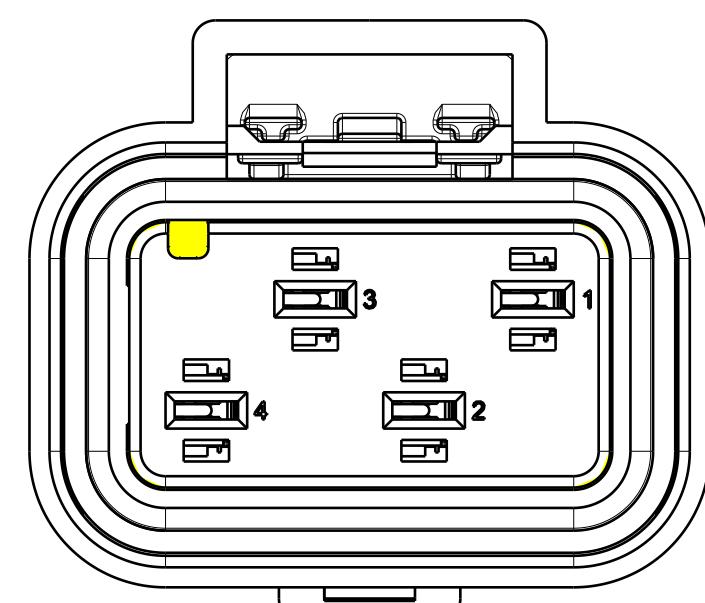
ISL INSTALLATION THROUGH WINDOW

ADDITIONAL REQUIREMENTS (ALL):

CONNECTOR TPA LOCKING FORCES: PER USCAR-2

CONNECTOR/TPA OVER TRAVEL FORCE WITHSTAND: 65N

CONNECTOR ASSEMBLY TOOLING APPLIED FORCE: 60N MIN. - 65N MAX

UNLOCKED POSITION
(EXAMPLE ONLY)
SCALE: 3/1LOCKED POSITION
(EXAMPLE ONLY)
SCALE: 3/1**TESLA**THIS DOCUMENT IS PROPERTY OF TESLA INC.
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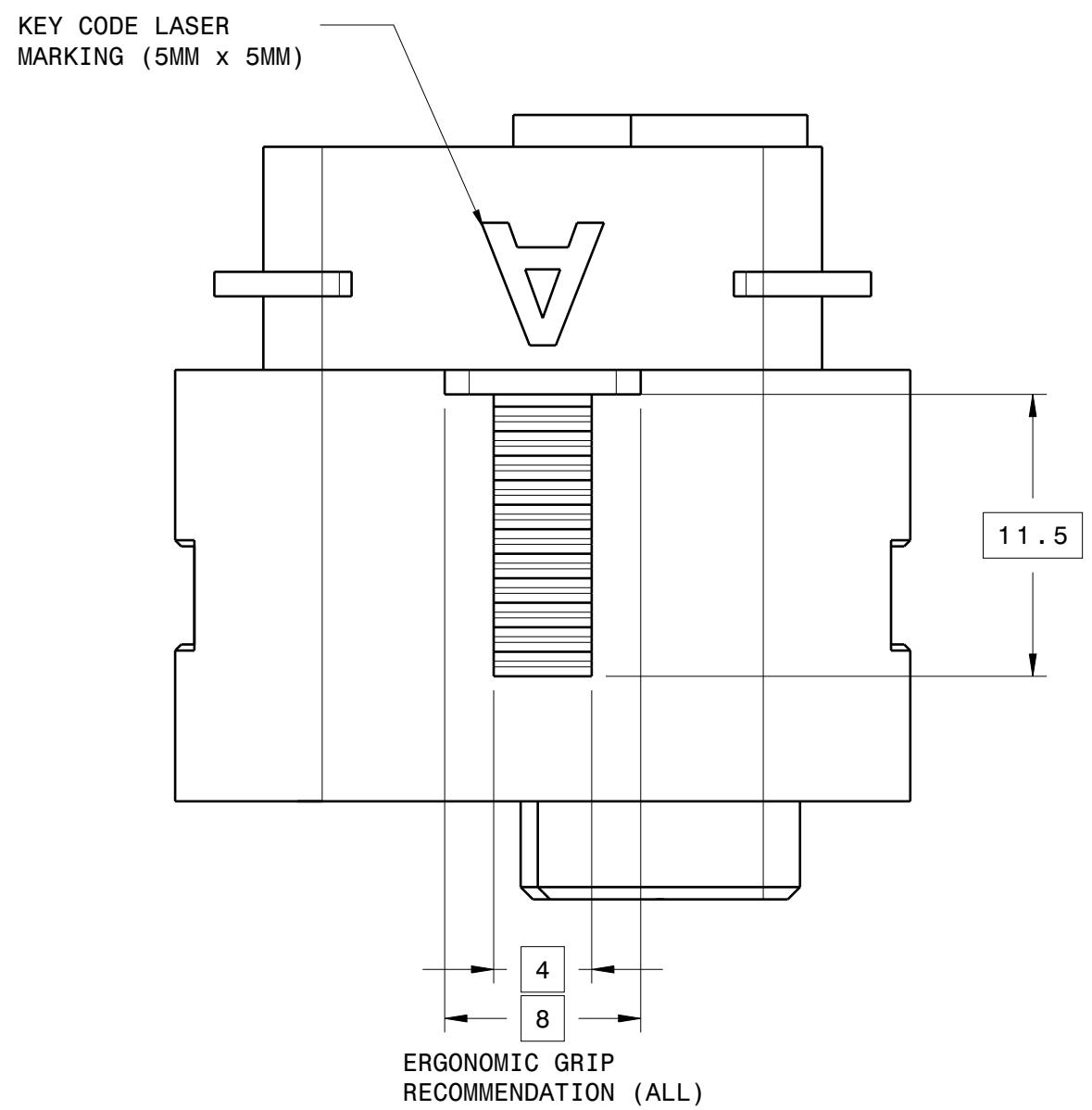
ITEM NAME

LOW VOLTAGE CONNECTOR STANDARD

ITEM NUMBER DRW-00456412

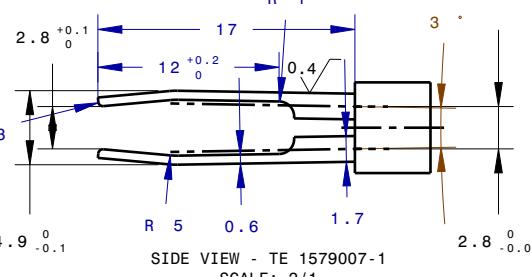
REVISION B.2 SHEET 10 of 12

KEY MARKING

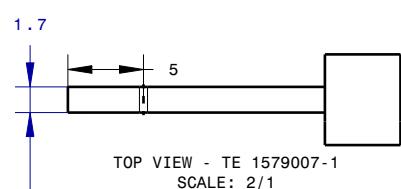


ELECTRICAL PROBING AND TERMINAL REMOVAL

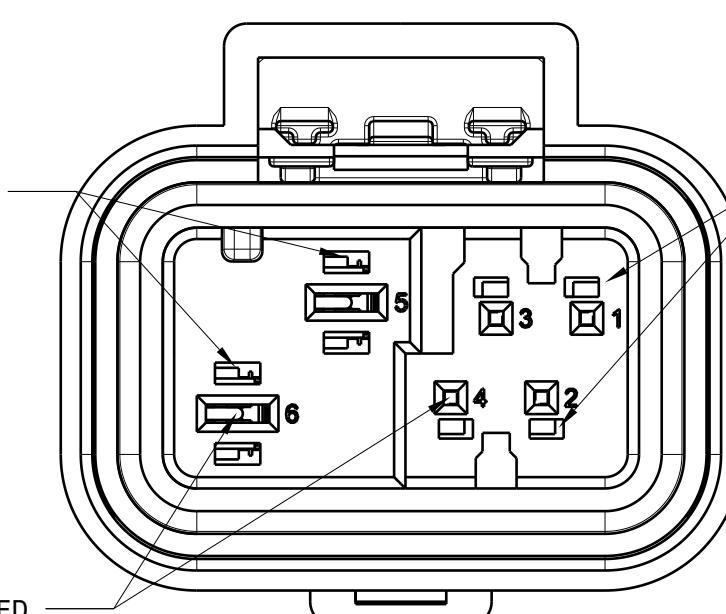
POGO PIN/EXTRACTION TOOL/PROBING TOOL MUST NOT INSERT INTO TERMINAL SLIDING CONTACT



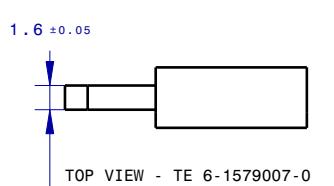
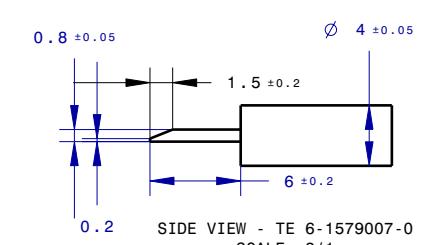
OPENING FOR TERMINAL EXTRACTION
(LOCKING LANCE) AND ELECTRICAL PROBING
OPENING MUST BE COMPATIBLE WITH TE
1579007-1 OR EQUIVALENT



NO TOOLS ALLOWED
TO AVOID DAMAGE
TO SLIDING
CONTACT



OPENING FOR TERMINAL EXTRACTION
(LOCKING LANCE) AND ELECTRICAL PROBING
OPENING MUST BE COMPATIBLE WITH TE 6-
1579007-0 OR EQUIVALENT



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ITEM NAME	LOW VOLTAGE CONNECTOR STANDARD	
ITEM NUMBER	REVISION	SHEET
DRW-00456412	C.1	12 of 12