

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
- TEMPERATURE RANGE -55°C TO +125°C
- DAMP HEAT STEADY STATE 21 DAYS
- SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

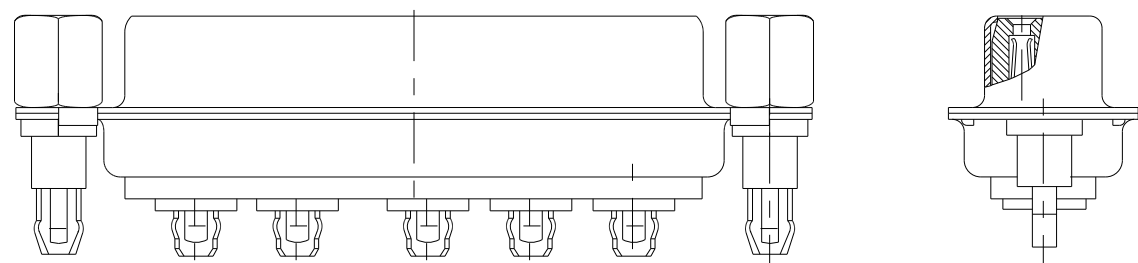
- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m maximum
- Female screw : 0.5 N.m maximum

PRESS FIT PERFORMANCES

PRESS FIT CONTACTS	
INSERTION FORCE	<= 200 N Average insertion 160N
EXTRACTION FORCE	>= 30 N

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004
- Termination plating spec:
 - Ni 1.27µmi+Sn 0.5 to 1.5µ(pure bright)
- Active area plating spec:
 - Ni + Gold/GxT
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920



5W5 FOR EXAMPLE

Series

DBL5W5S93C5G40LF

Shell size: **E A B C**

see sheet 2

Front accessory definition

see sheet 2

L :threaded insert M3

O :threaded insert UNC 4-40

V :female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts

S :Socket

Termination type

93 C Straight version

Plating

5 200 matings/unmatings

6 500 matings/unmatings

PCB accessories definition

see sheet 2

G :Harpoon used for PCB thickness from 1.60 mm

Power contacts

40 :Fitted with power contacts 40 Amp.

TABLE 1:PCB HOLE DIAMETERS

		SnPb holes for CONTACTS	Sn holes for CONTACTS	holes ACCESSORIES
P.C.B HOLE DEFINITION (NOTE-1 AND 2)	DRILL DIAMETER	ø3.22 REF(NOTE 3)	ø3.22 REF(NOTE 3)	ø3.10±0.10
	DRILLED HOLE	ø3.19-3.25	ø3.19-3.25	
	COPPER PLATING	25µ MINI (RECOMMENDED 50µ MAXI)	25µ MINI (RECOMMENDED 50µ MAXI)	
	TIN-LEAD PLATING	15µ MAXI (RECOMMENDED 5µ MINI)		
	TIN PLATING		0.8 to1,2µ	
		FINISH HOLE (AFTER REFLOW)	ø 3.02-3.20	ø3.08-3.20

NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

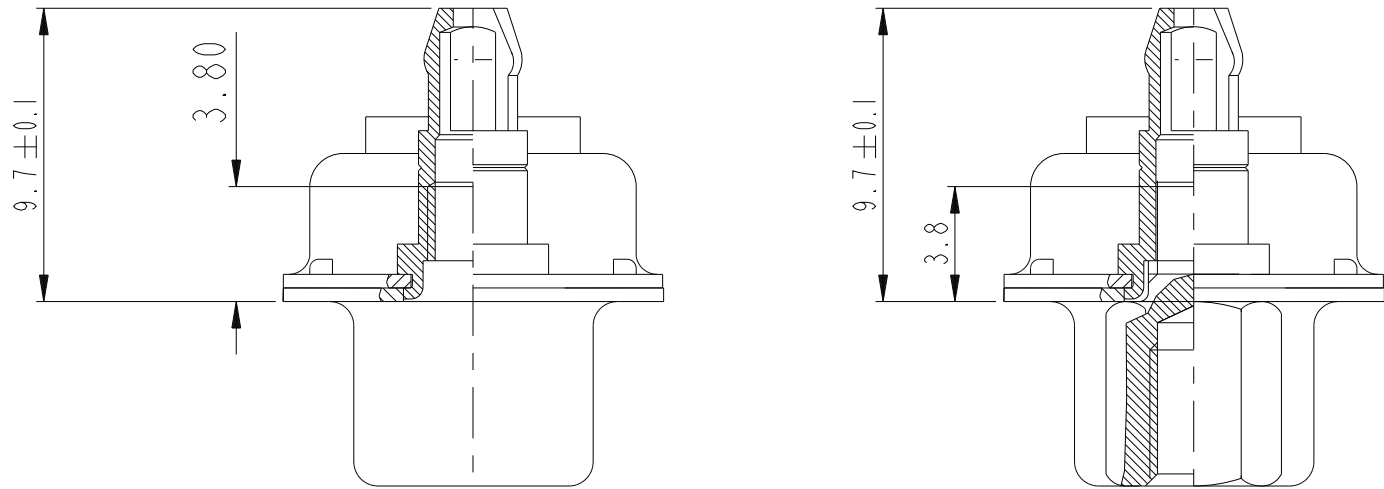
NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

spec ref		dr		1, Product Eng		2015/06/15		projection		size		scale			
tolerance std		eng		Gregar Mathew		2020/12/04				A2		3:1			
ISO 406		chr		-		-				ecn no		ELX-1-33502-1			
ISO 1101		appr		Kuriakose, San		2020/12/06		product family		D SUB -		rel level			
												Released			
surface		linear		0.X		±0.3		SUB FEMALE DW		dwg no		c01-8639-2318C		rev	
				0.XX		±0.1		full power straight press fit						D	
ISO 1302		angular		0°		±2°		cat. no.		Product -		Customer Drw		sheet 1 of 4	

PDS: Rev :D

STATUS:Released

Printed: Dec 18, 2020



FRONT ACCESSORIES	L insert M3	V insert UNC 4.40
	O insert UNC 4.40	
PCB ACCESSORY	G Harpoon for PCB from 1.60mm	G Harpoon for PCB from 1.60mm

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORIES	PCB ACCESSORY
D*LxWxS93C5G40LF	40	200	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C5G40LF	40	200	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C5G40LF	40	200	female screw UNC 4.40	harpoon PCB from 1.60mm

shell size	LAYOUTS
*	xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

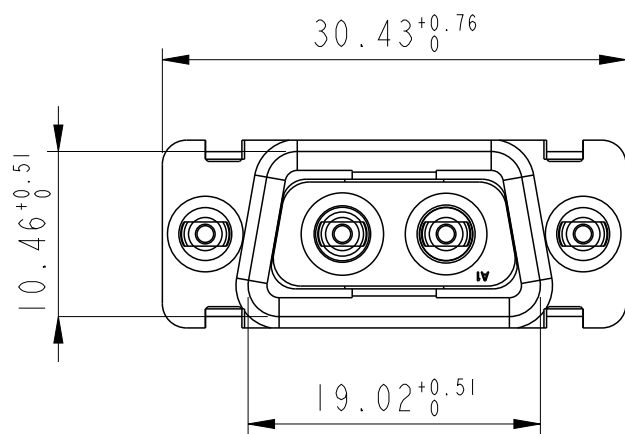
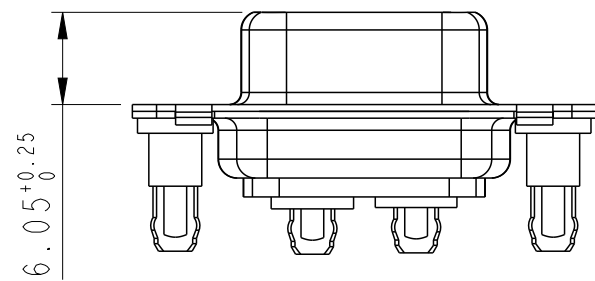
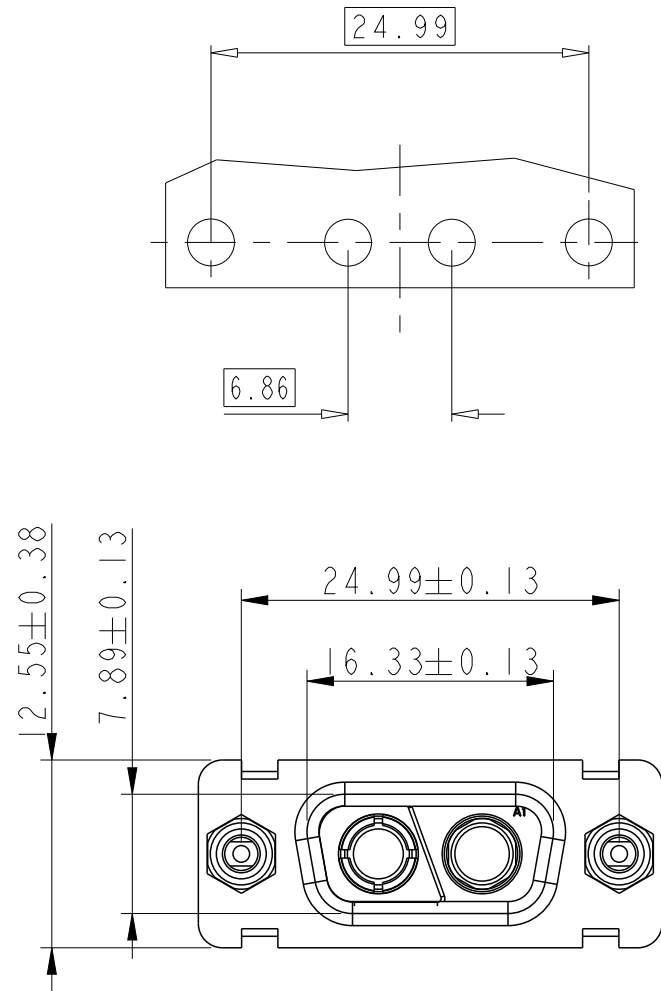
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS93C6G40LF	40	500	insert M3	harpoon PCB from 1.60mm
D*OxWxS93C6G40LF	40	500	insert UNC 4.40	harpoon PCB from 1.60mm
D*VxWxS93C6G40LF	40	500	female screw UNC 4.40	harpoon PCB from 1.60mm

spec ref				dr		1, Product Eng		2015/06/15		projection		mm		size		A2		scale		3:1	
tolerance std				eng		Gregar Mathew		2020/12/04						ecn no		ELX-133502-1					
ISO 406				chr		-		-						rel level		Released					
ISO 1101				appr		Kuriakose, San		2020/12/06						product family		D SUB					
surface		linear		0.X		±0.3				title		SUB FEMALE DW		dwg no		c01-8639-2318C		rev		D	
				0.XX		±0.1															
				0.XXX		±0.05															
		ISO 1302		angular		0°															

2V2

LAYOUT AND CONNECTOR DIMENSIONS

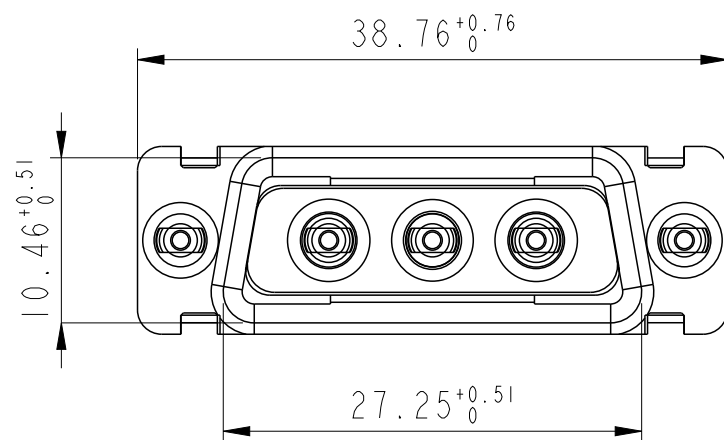
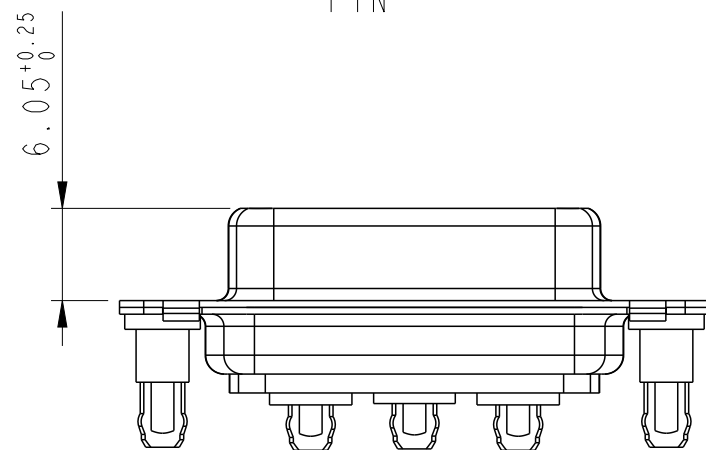
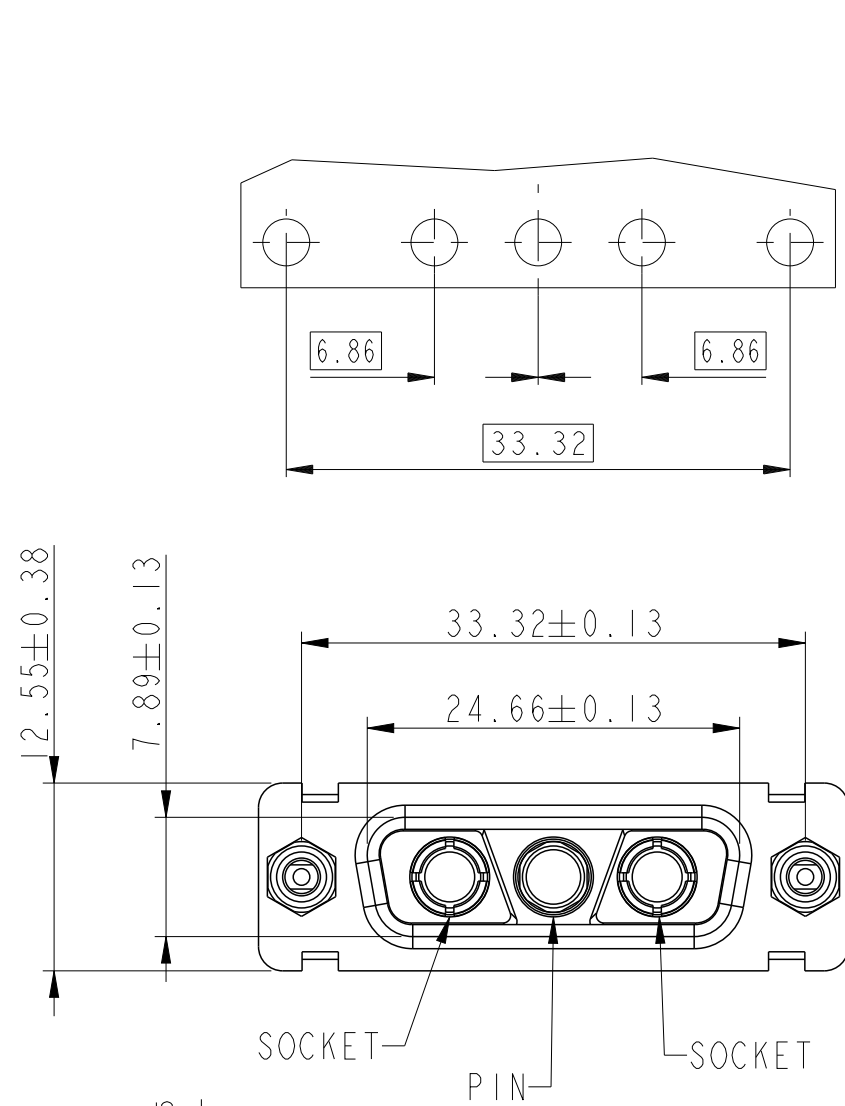
For PCB hole diameters see table I sheet I



3V3

LAYOUT AND CONNECTOR DIMENSIONS

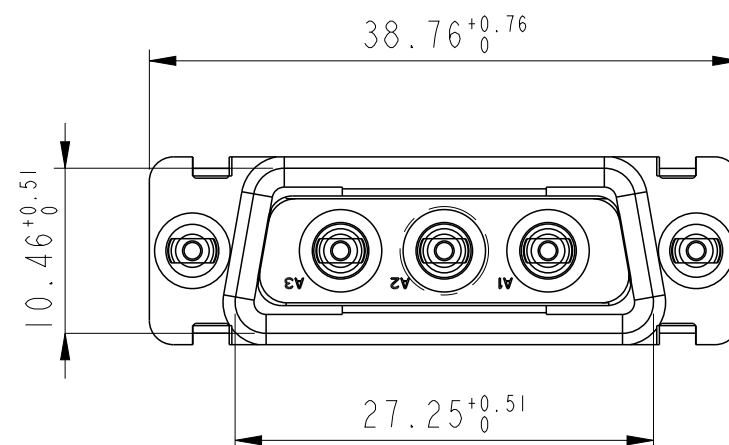
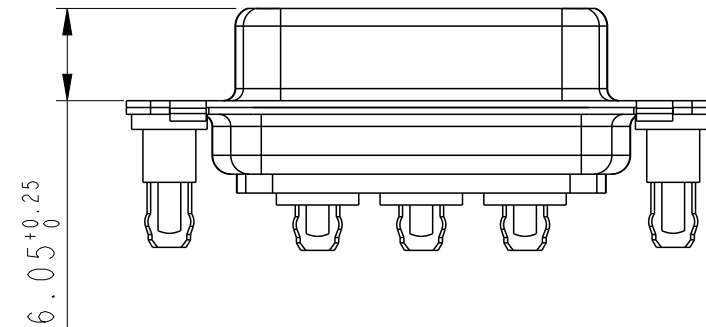
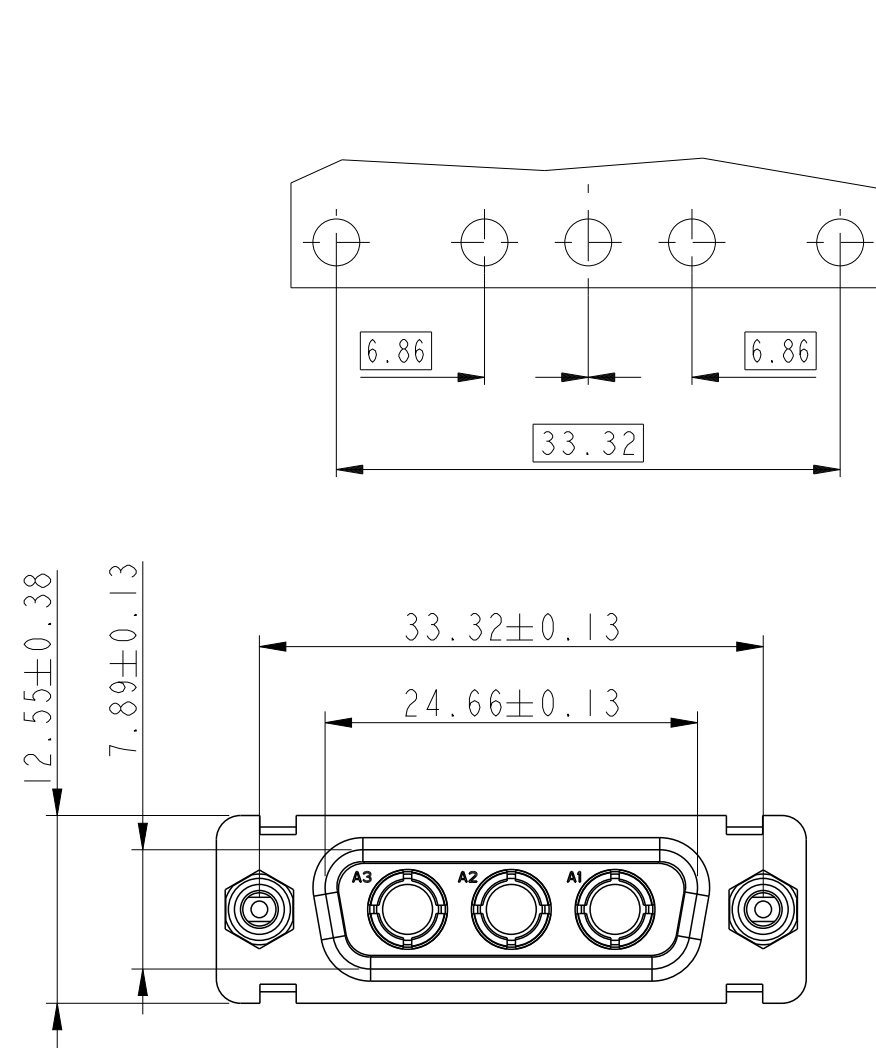
For PCB hole diameters see table I sheet I



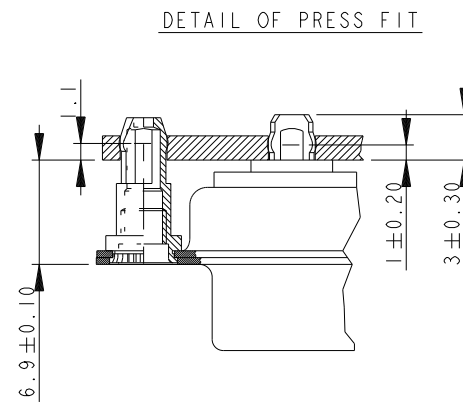
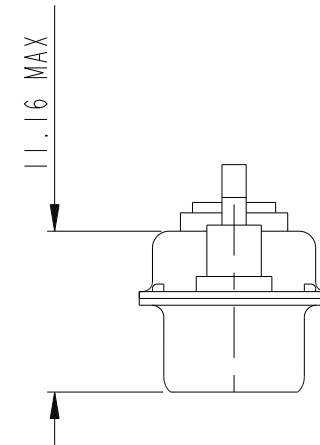
3W3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

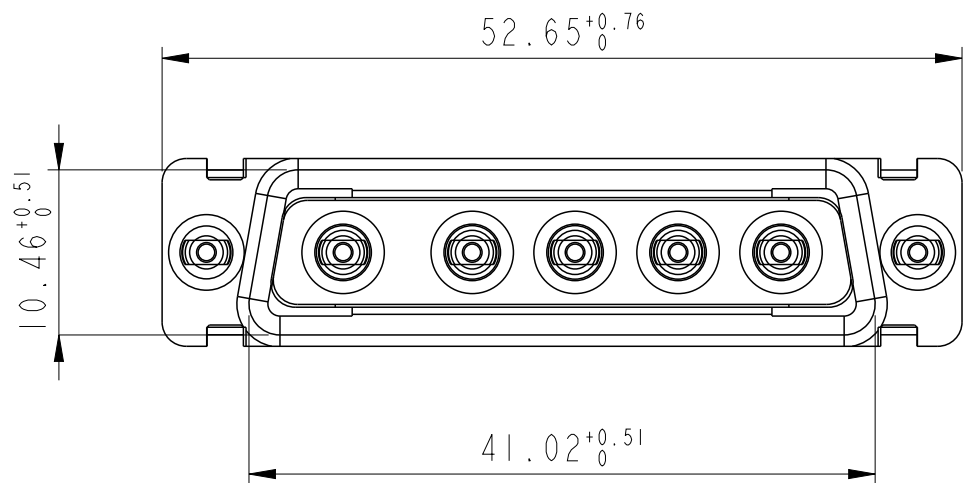
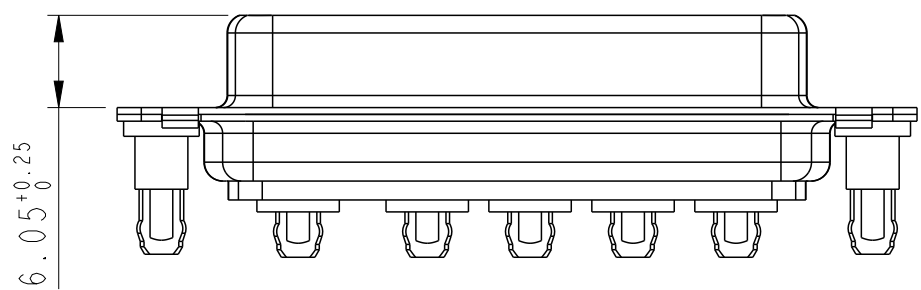
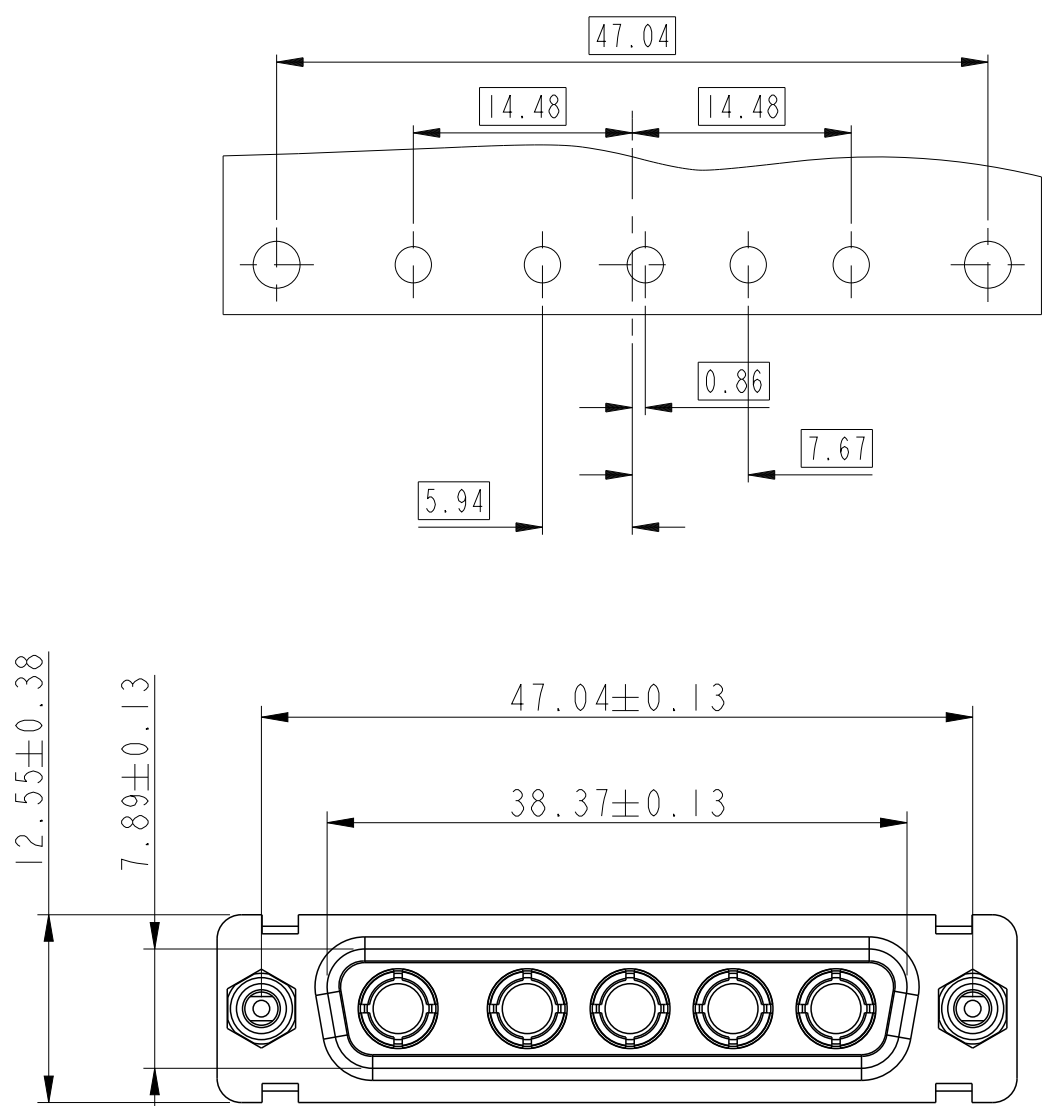


SIDE VIEW FOR
LAYOUTS: E A B C

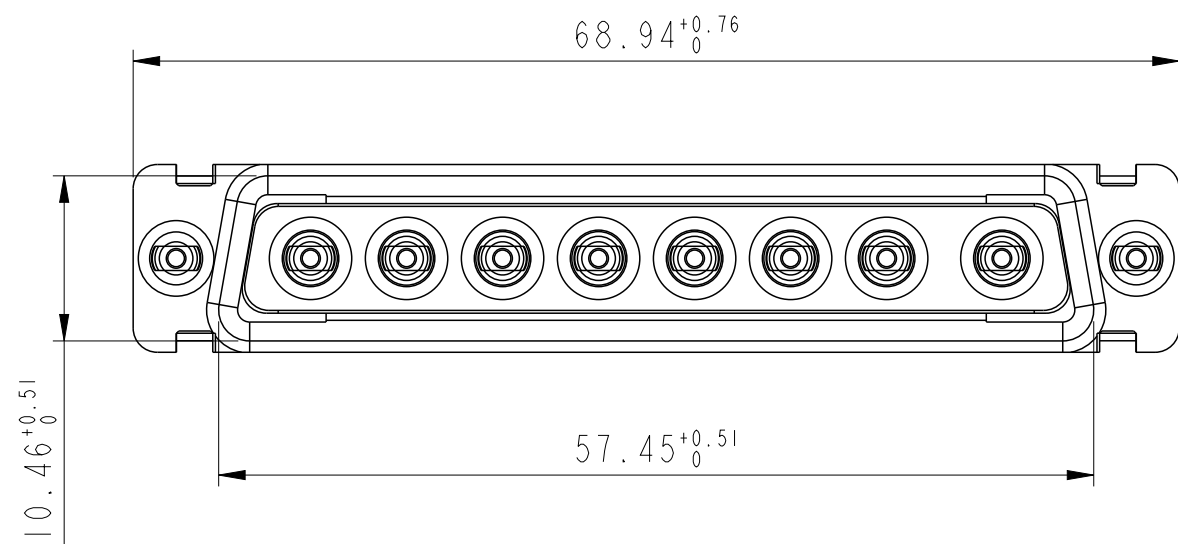
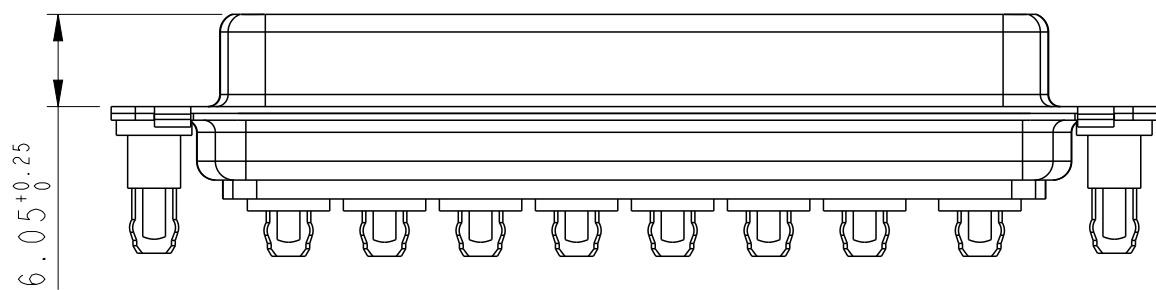
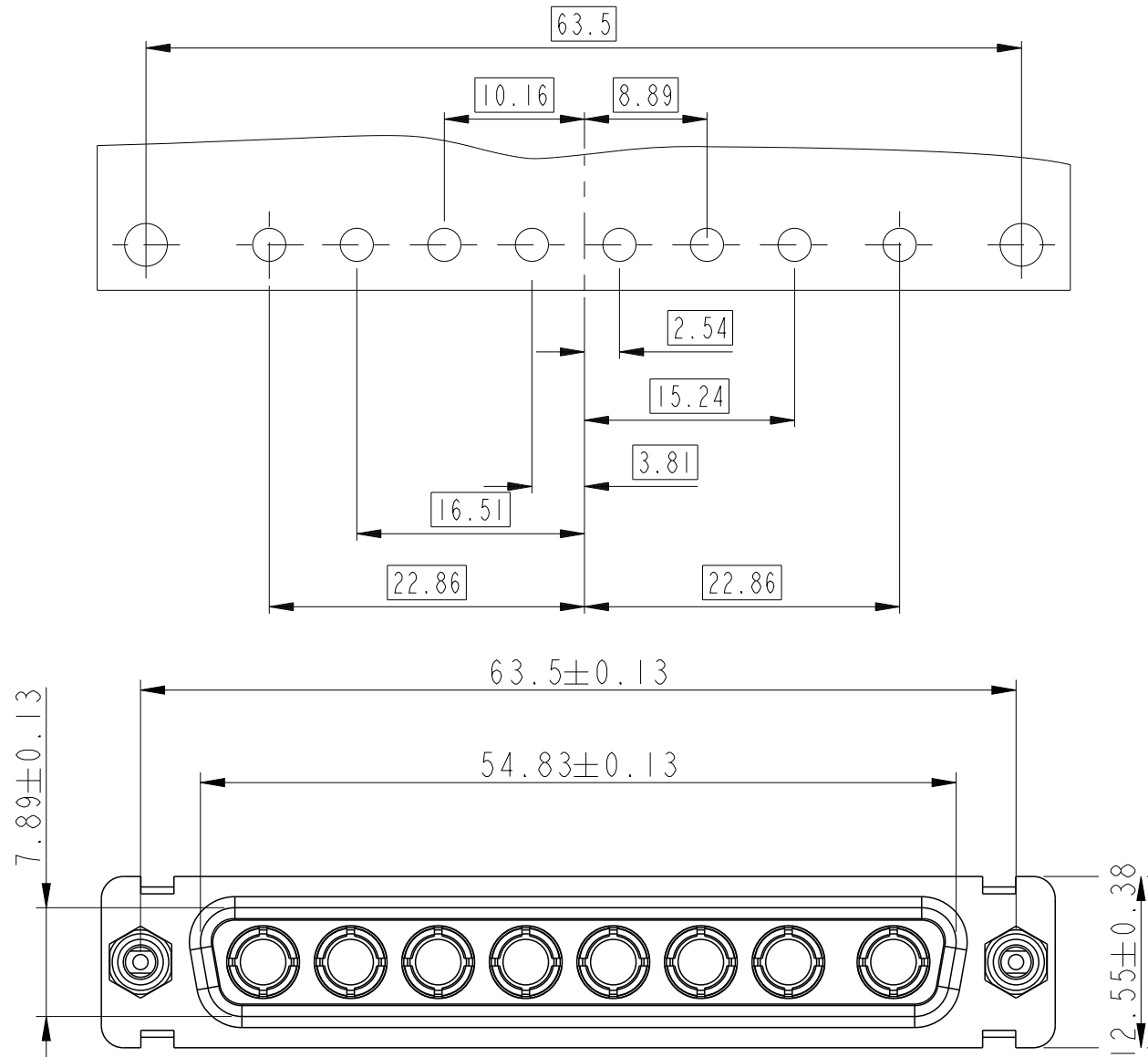


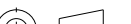
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ISO 406	appr	Kuriakose, San	2020/12/06	product family	D SUB -	rel level	Released	rev	D
ISO 1101									
surface	linear	0.X	±0.3	Amphenol FCi	title	SUB FEMALE DW	dwg no	c01-8639-2318C	rev
ISO 1302	angular	0°	±2°			full power straight press fit			
					cat. no.	-	Product - Customer Drw	sheet 3 of 4	

5W5
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



8W8
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



spec ref		dr		1. Product Eng		2015/06/15		projection		mm		size		A2		scale		2:1							
tolerance std		eng		Gregar Mathew		2020/12/04						ecn no		ELX-I-33502-1											
ISO 406		chr		-		-						rel level		Released											
ISO 1101		appr		Kuriakose, San		2020/12/06						product family		D SUB -											
surface		linear		0.X		±0.3		Amphenol FCI		title		SUB FEMALE DW		dwg no		c01-8639-2318C		rev		D					
																						0.XX		±0.1	
																						0.XXX		±0.05	
																						angular		0°	
ISO 1302																									
		</																							