

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS (SIGNAL CONTACT)
- BRASS (POWERS CONTACT)
- ACCESSORIES: BRASS
- SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)
- 30A or 40A (POWER CONTACT)
- CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)
- 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

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
 - Signal contacts: Ni + Gold/GxT
 - Power contacts: Ni 1.27µmi+Sn 2.5 to 7.5µ,pure bright
- Active area plating spec:
 - Signal and power contacts: 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

Series

Shell size: **E A B C**
(see sheet 3)

Front accessory definition
(see sheet 2)

- blank**:without accessory
- L** :threaded insert M3
- O** :threaded insert UNC 4-40
- V** :female screw UNC 4-40

Layout of contacts (see sheet 3)

Contacts
P Pin

Termination type
5 Right angle/Europe standard

Plating
00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition(see sheet 2)
A :without accessory
H :Metal brackets+harpoons for PCB 2.40mm
G :Metal brackets+harpoons for PCB 1.60mm
M :Metal brackets

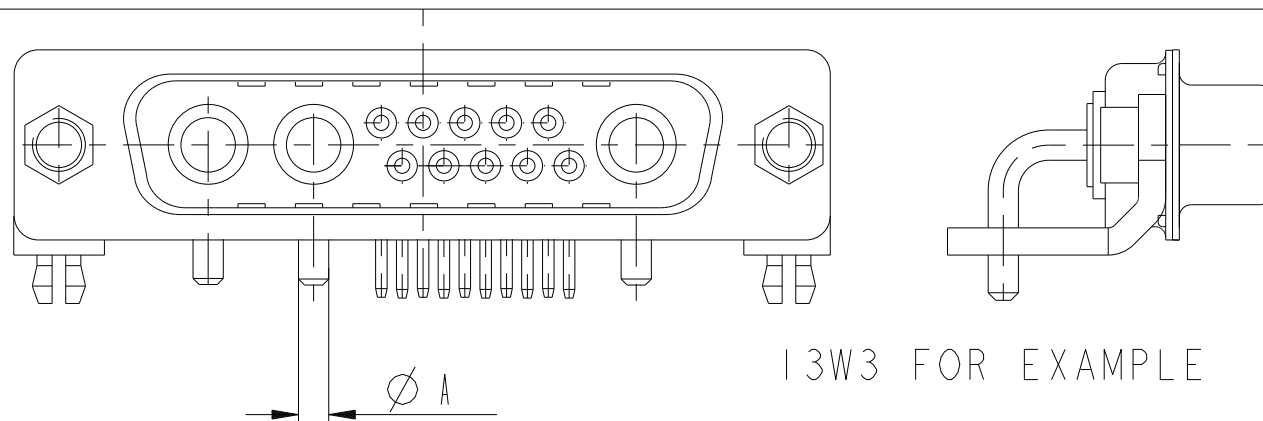
Power contacts
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

DBL13W3P500G30LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø2.40	Ø3.10	Ø1.00
40 A	2.80	Ø3.10		
Max current Power	ØA±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10



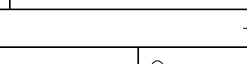
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ISO 1101 ISO 406		chr		-		2019/11/12													
		appr		Varma Sudhir		2019/11/12		product family		-									
surface		linear		0.X ±0.3 0.XX ±0.10.11 0.XXX ±0.05		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg no		C01-8639-2304c		rev		E	
ISO 1302		angular		0° ±2°															
						cat. no.		-		Product - Customer Drw				sheet 1 of 7					

Amphenol
FCi

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C	FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
	PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal bracket

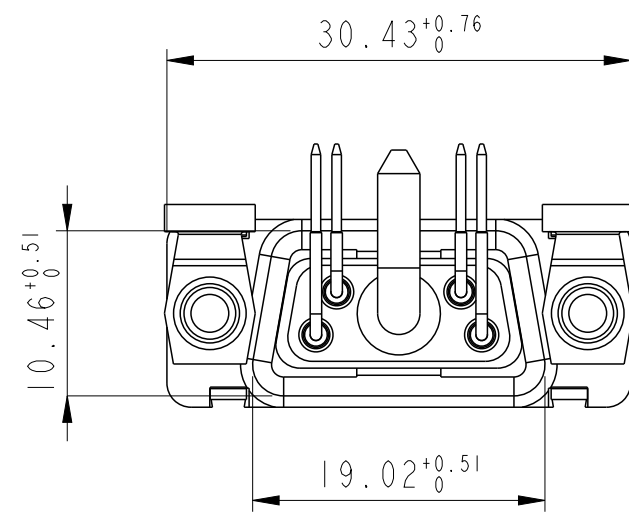
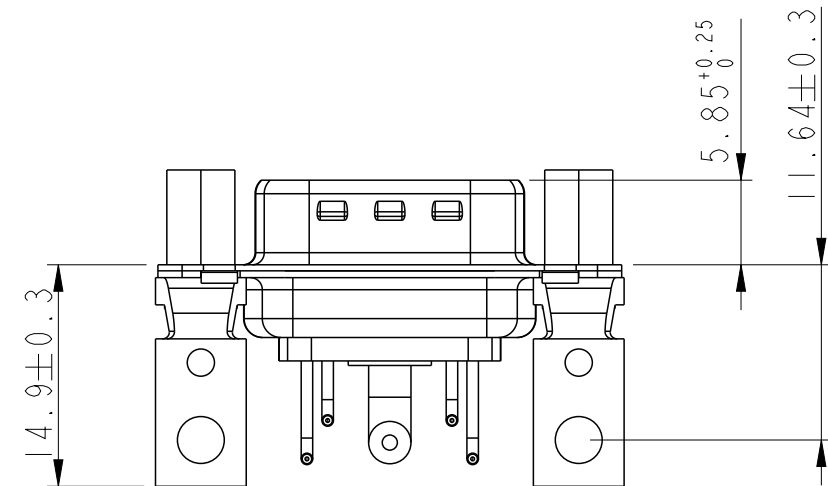
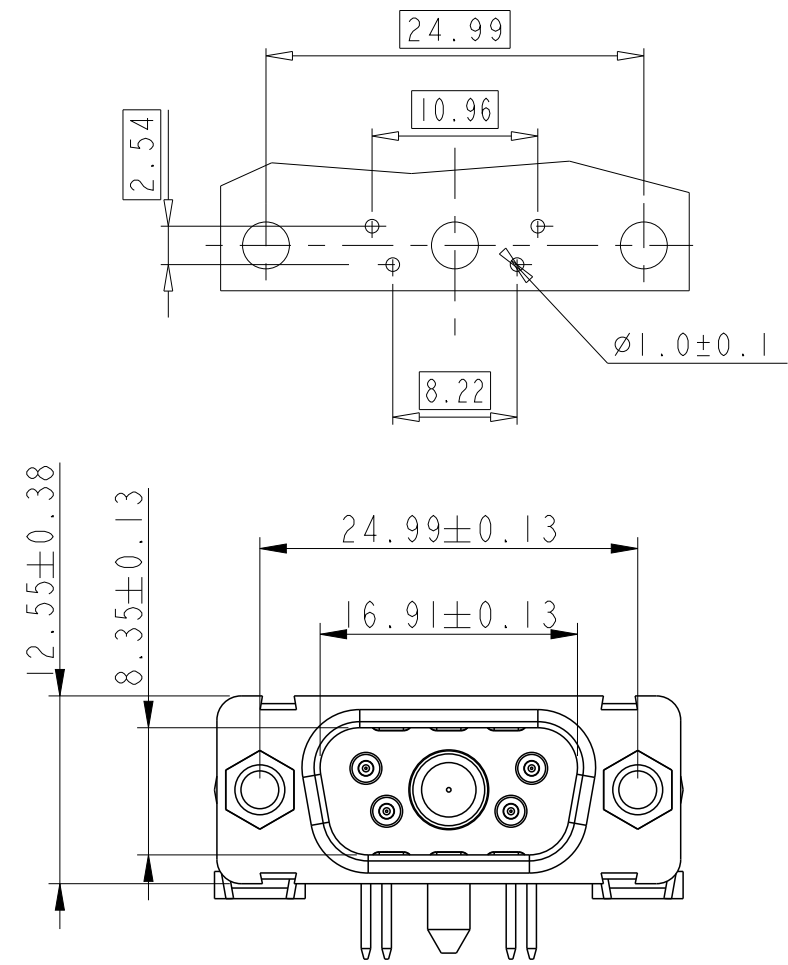
F	FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
	PCB ACCESSORIES	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	H Metal brackets + harpoons for PCB 2.40mm	H Metal brackets + harpoons for PCB 2.40mm	H Metal brackets + harpoons for PCB 2.40mm

spec ref				dr	1, Product Eng		2015/06/16		projection 	mm 	size	A2	scale	3:1						
tolerance std				eng	Gregar Mathew		2019/11/11				ecn no	ELX-133009-1								
ISO 1101				chr	-		-													
ISO 1101				appr	Varma Sudhir		2019/11/12				product family			-		rel level		Released		
ISO 406				TOLERANCES UNLESS OTHERWISE SPECIFIED																
surface	linear	0.X	±0.30	Amphenol FCi	title	SUB MALE DW EUROPE FOOT PRINT					dwg no	C01-8639-2304c			rev	E				
		0.XX	±0.10																	
		0.XXX	±0.05																	
		ISO 1302				angular	0°	±2	cat. no.			-		Product - Customer Drw				sheet 2 of 7		

5W1

LAYOUT AND CONNECTOR DIMENSIONS

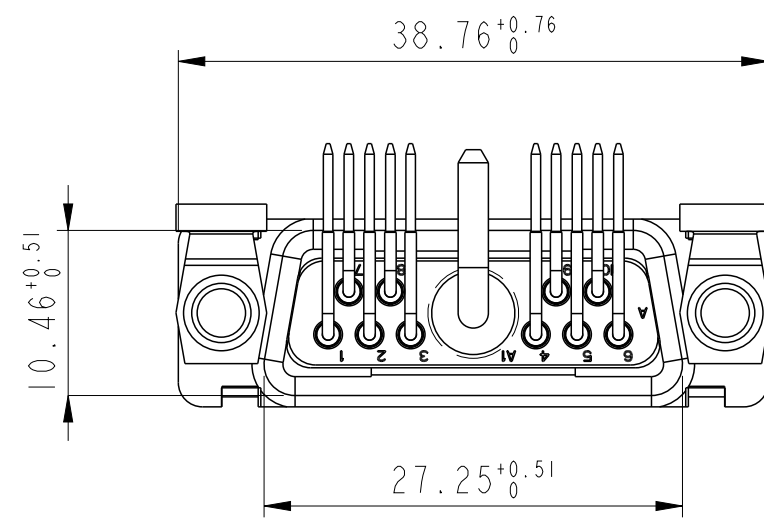
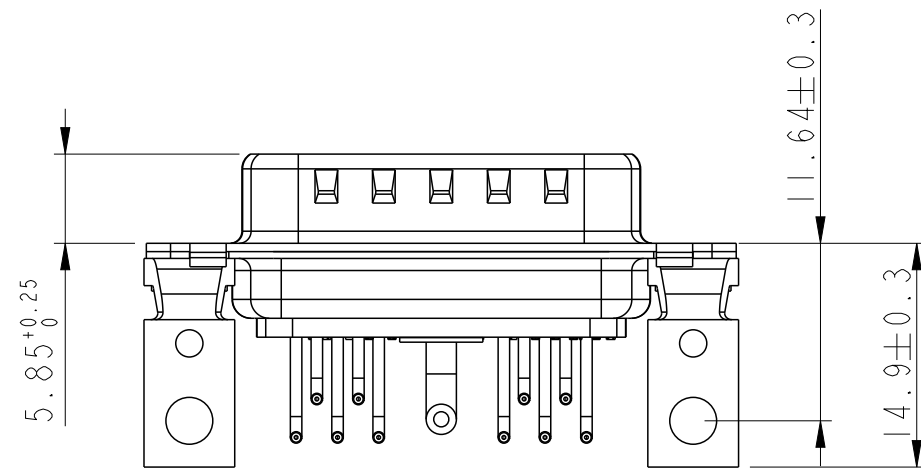
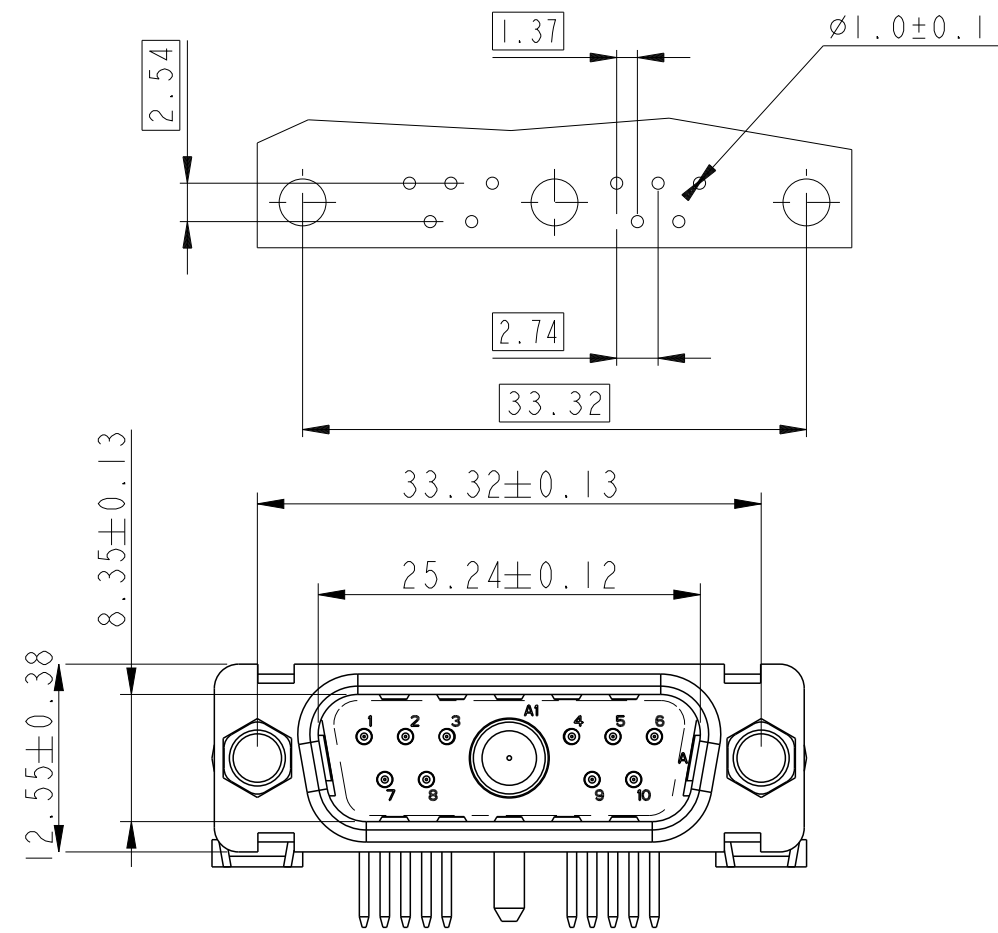
For PCB hole diameters see table I sheet I



11W1

LAYOUT AND CONNECTOR DIMENSIONS

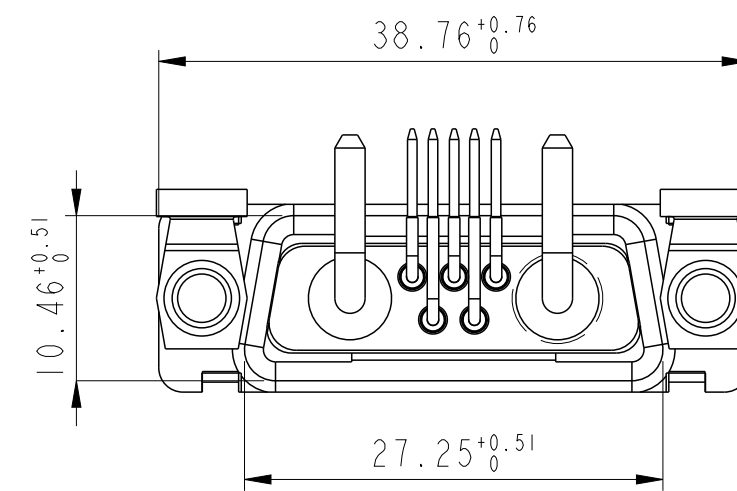
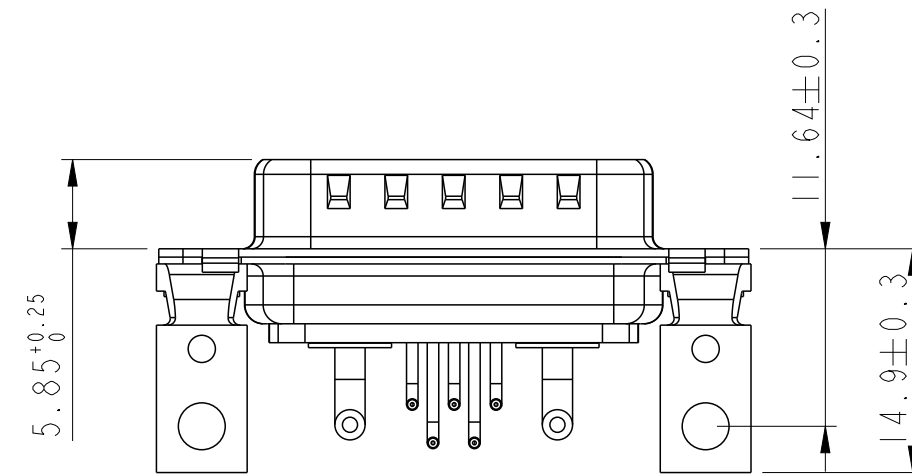
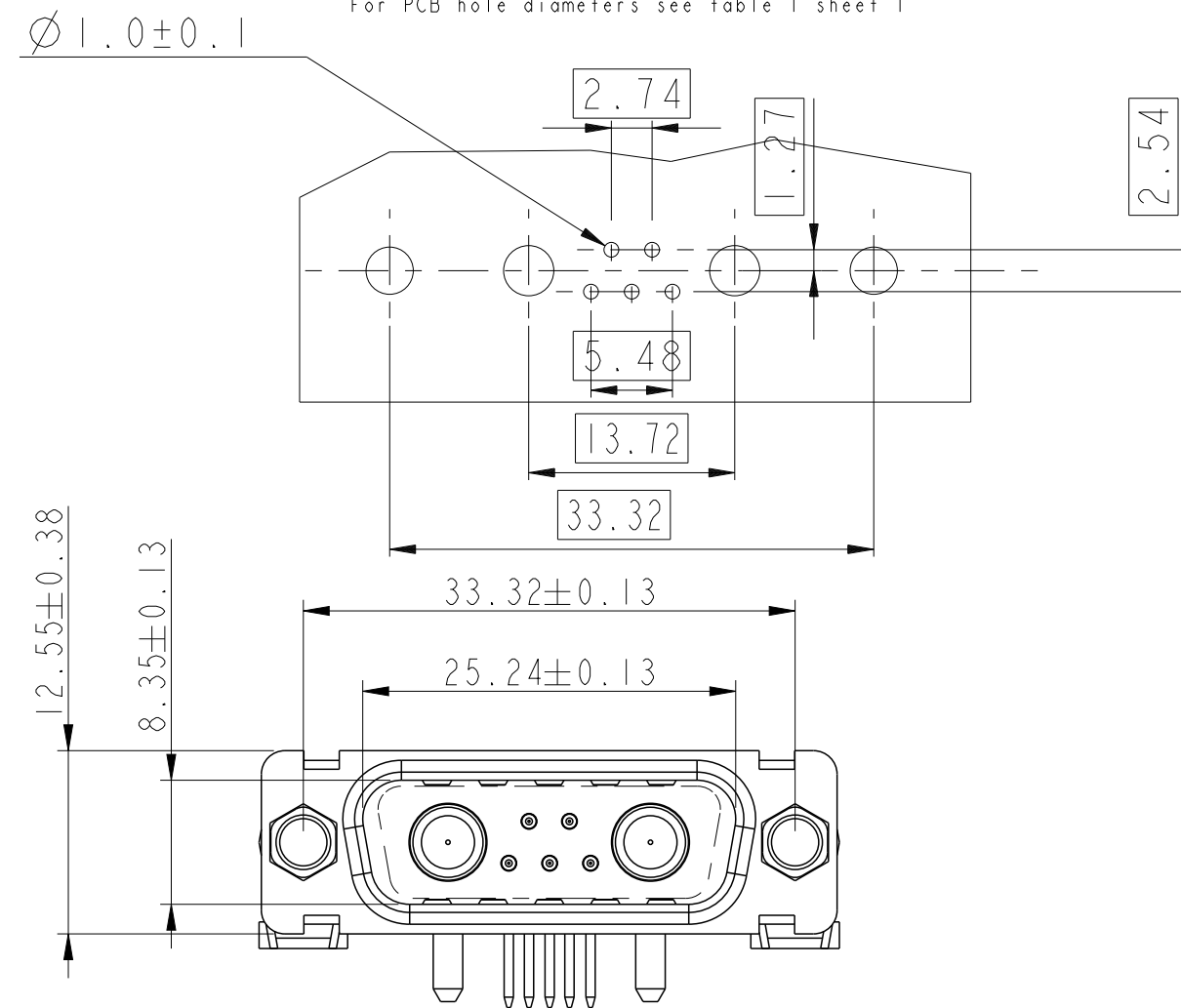
For PCB hole diameters see table I sheet I



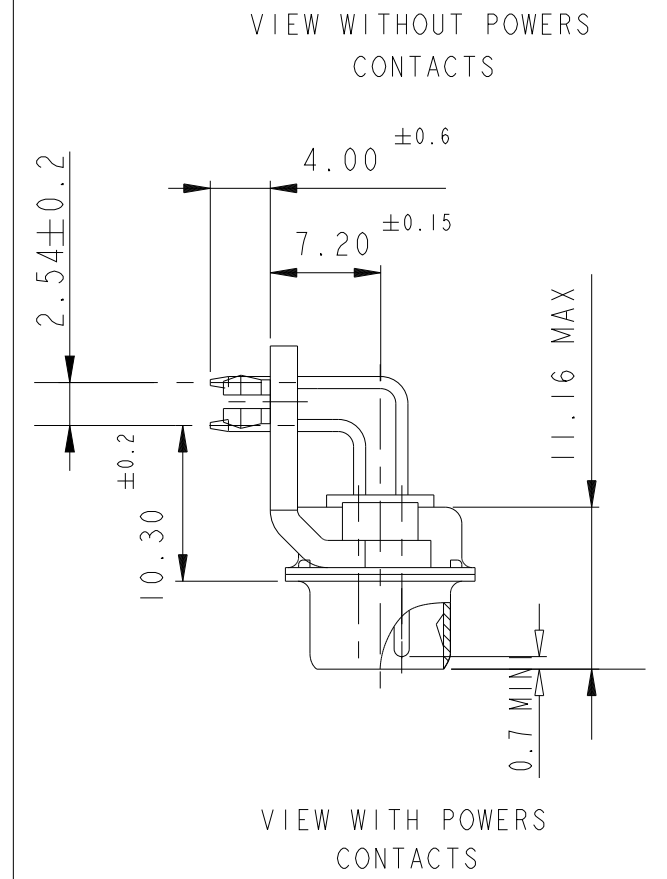
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



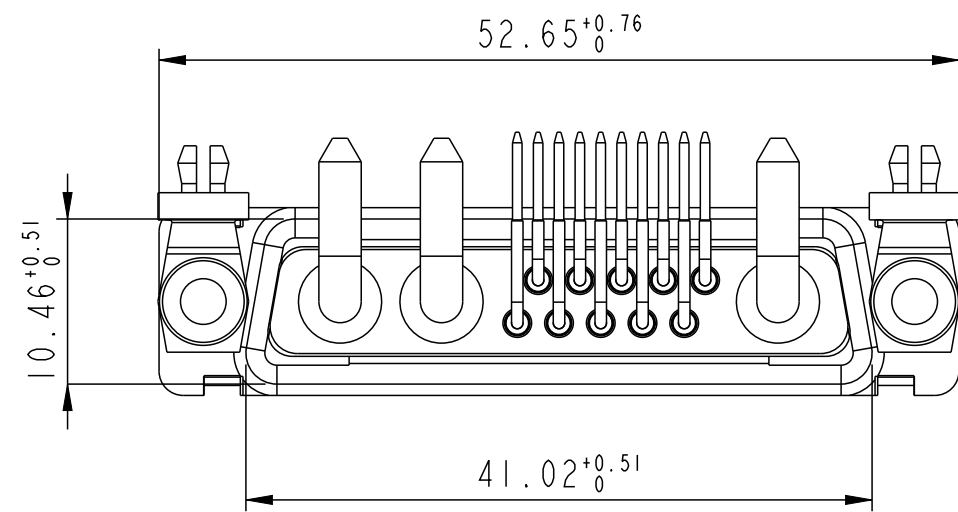
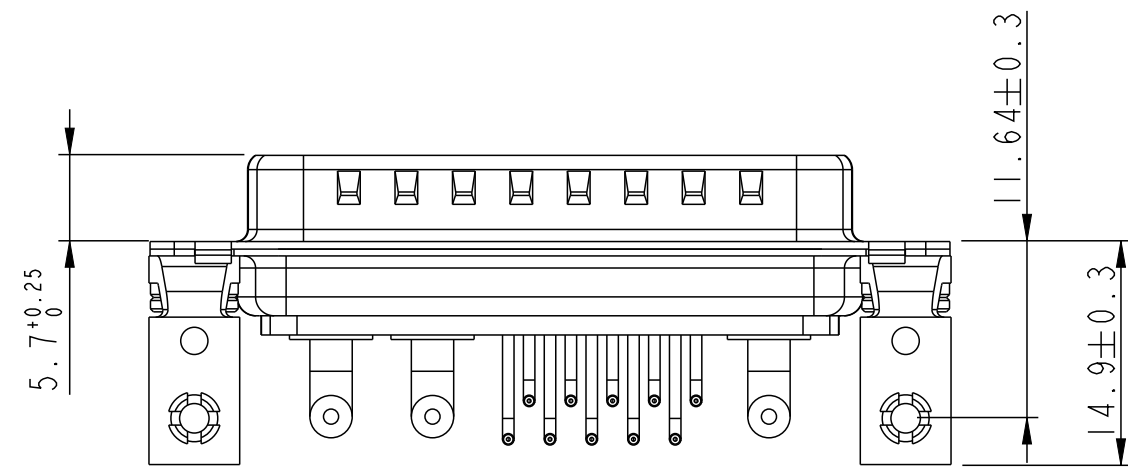
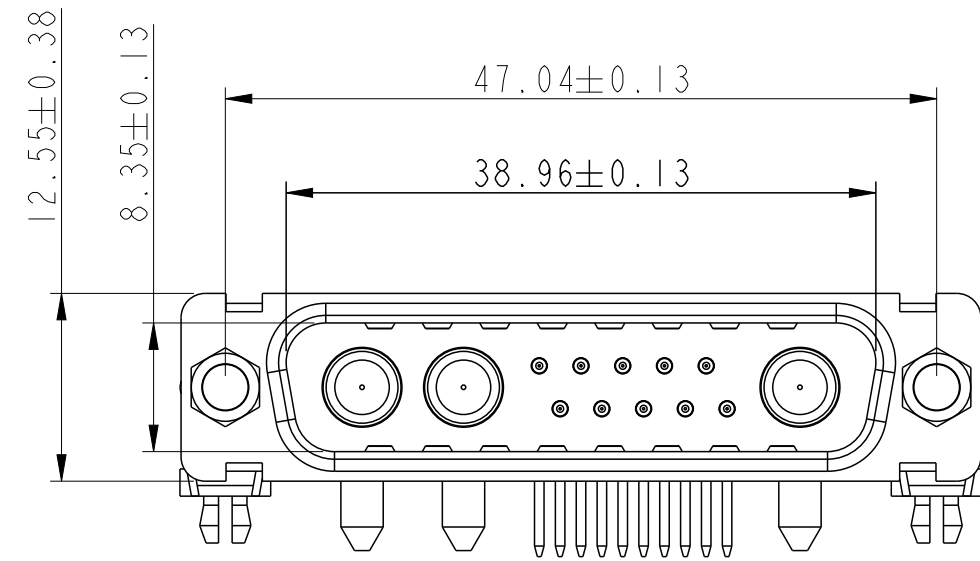
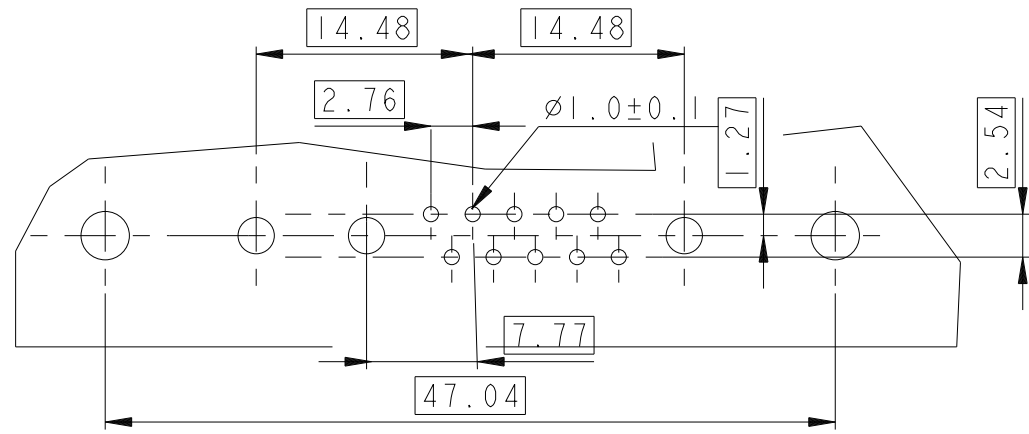
SIDE VIEW FOR ALL LAYOUTS



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tolerance std			engGregar Mathew		2019/11/11						ecn noELX-133009-1		rel levelReleased							
ISO 1101			chr-		-															
ISO 406			apprVarma Sudhir		2019/11/12															
surface - ISO 1302			linear		0.X±0.30		0.XX±0.10		0.XXX±0.05		Amphenol FCI		titleSUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg noC01-8639-2304c		revE			
																			angular0°±0.2	
							cat. no.-		Product - Customer Drw				sheet 4 of 7							

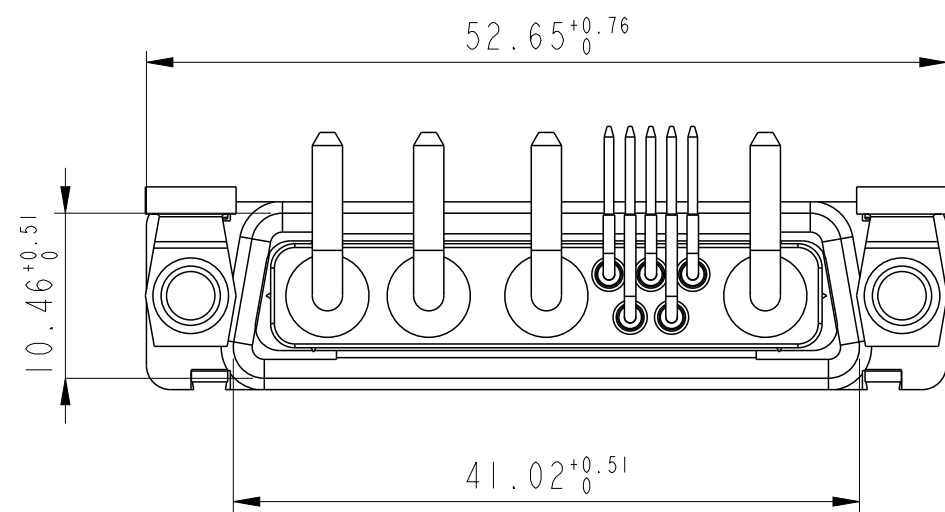
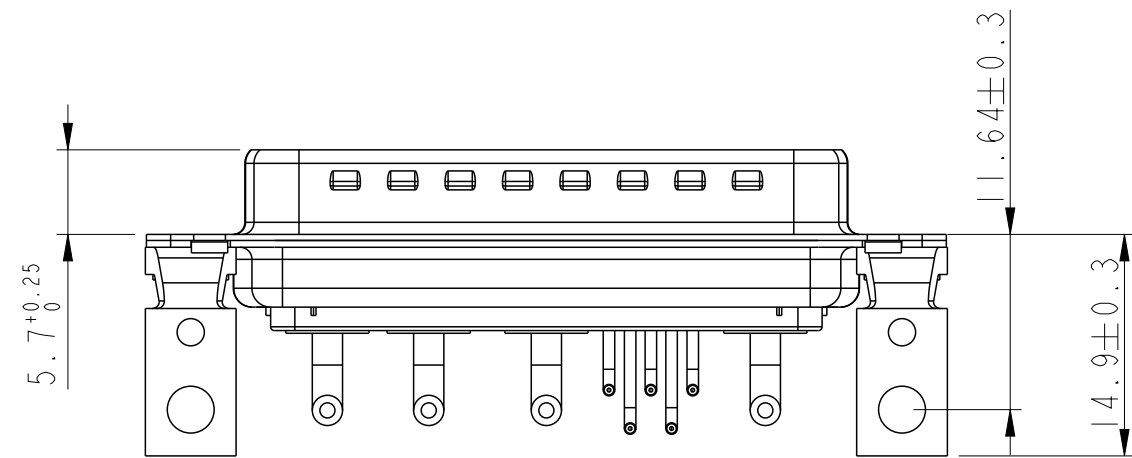
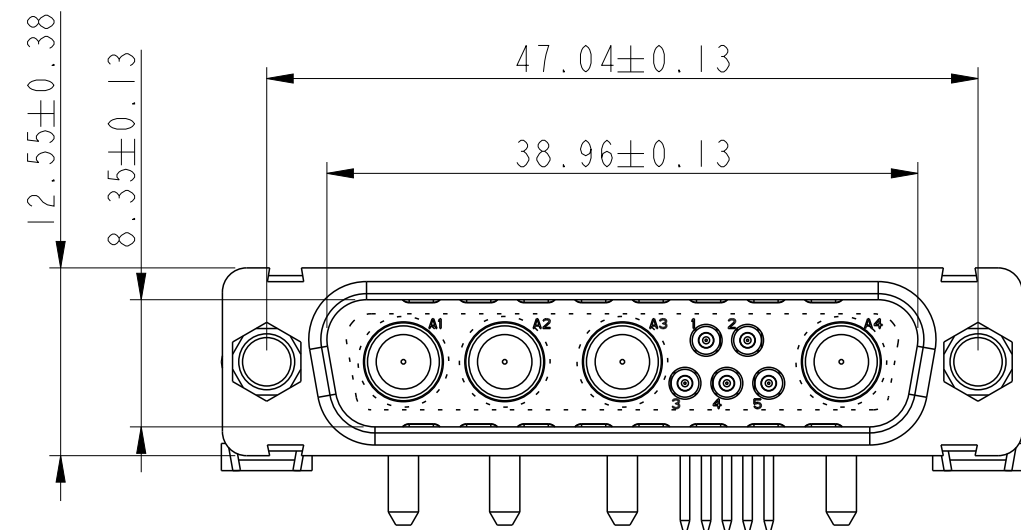
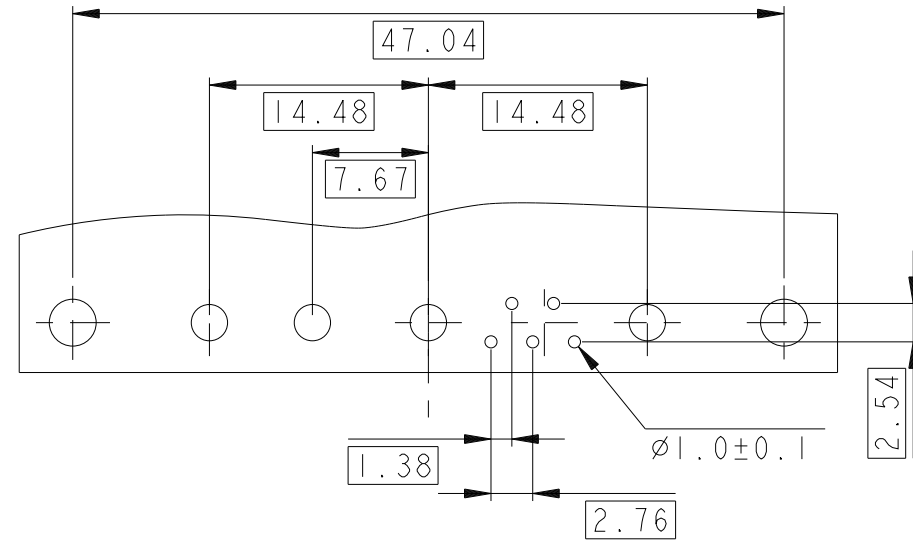
13W3

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



9W4

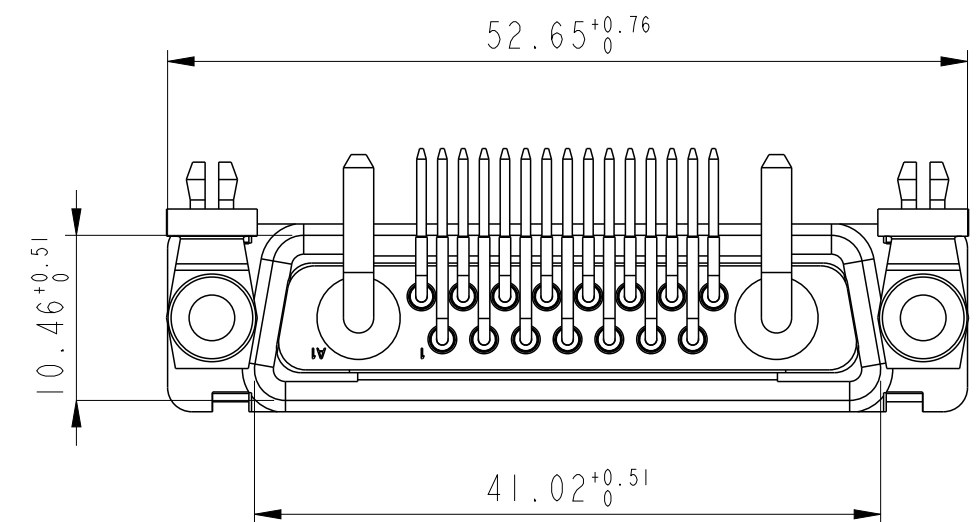
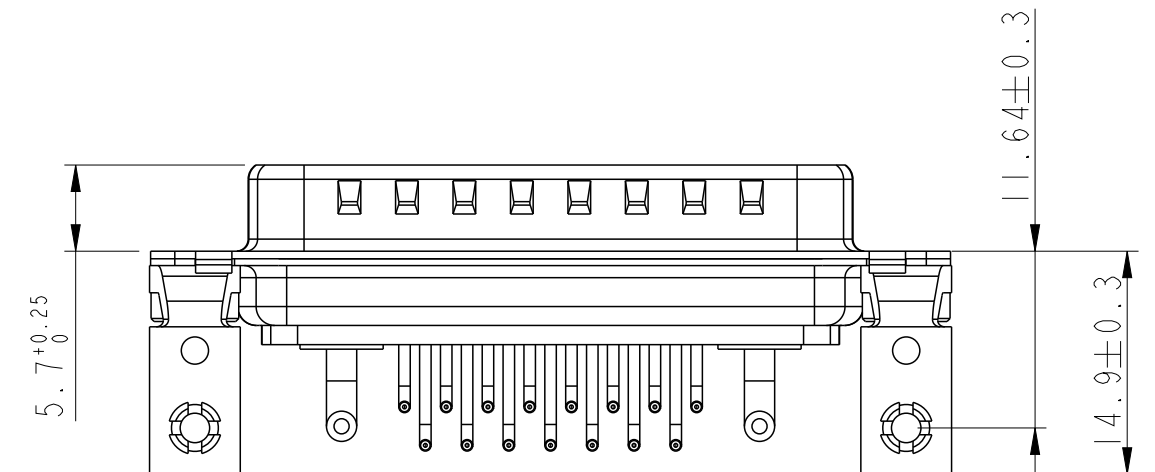
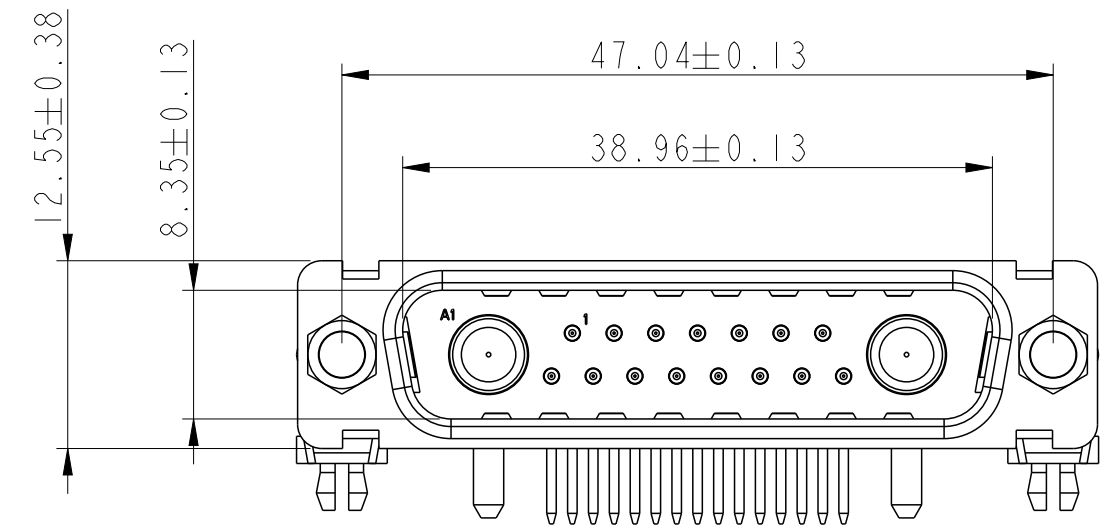
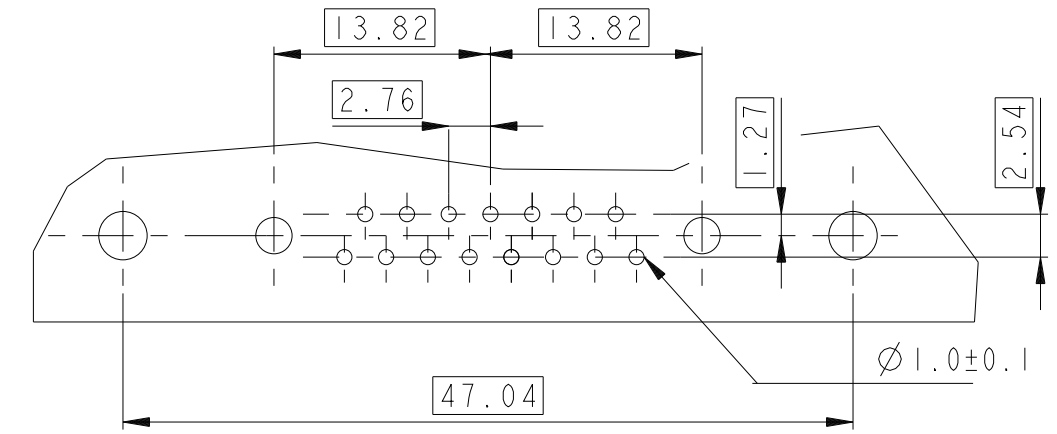
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

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

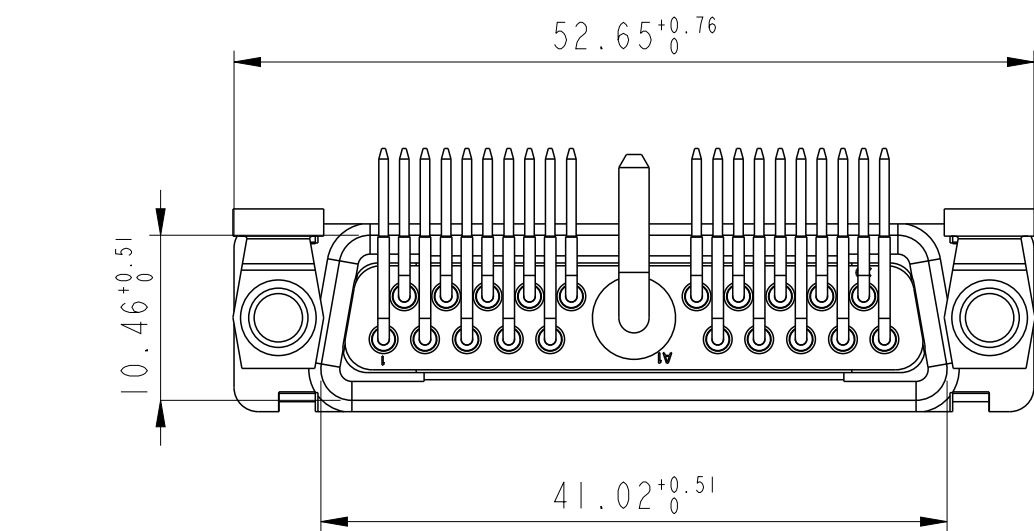
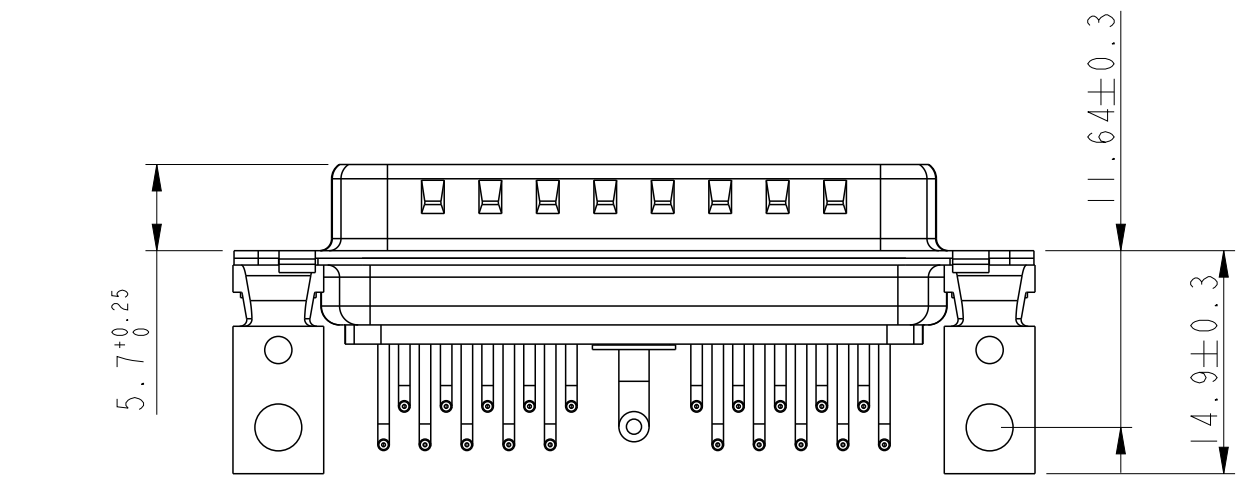
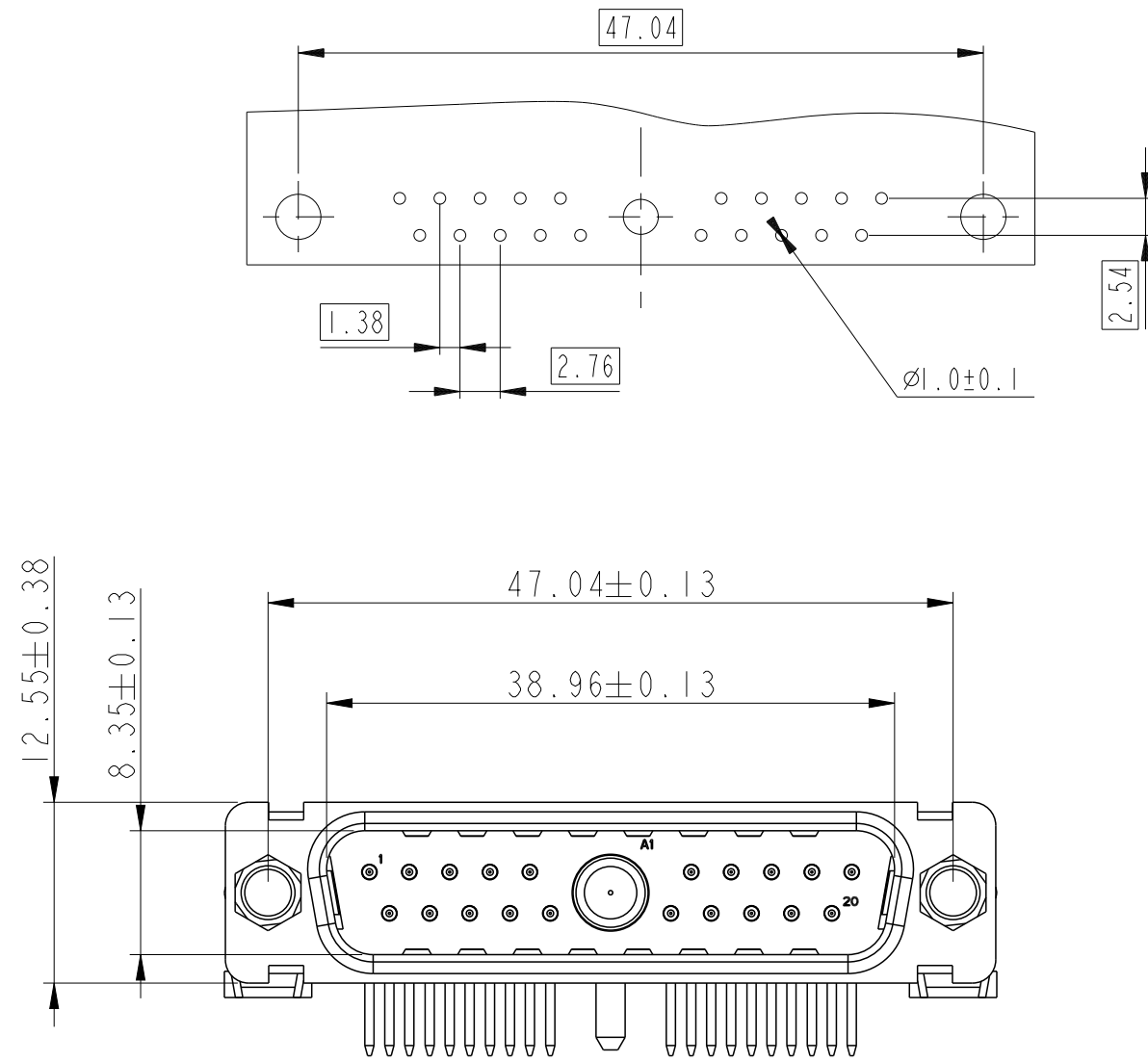


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ISO 1101		chr		-		-						rel level		Released					
ISO 406		appr		Varma Sudhir		2019/11/12						product family		D SUB -					
TOLERANCES UNLESS OTHERWISE SPECIFIED		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT		dwg no		C01-8639-2304c		rev		E					
surface		linear		0.X		±0.30		cat. no.		-		Product - Customer Drw		sheet 5 of 7					
ISO 1302		0.XX		±0.10		MIXED POWER RIGHT ANGL SOLDER		Product - Customer Drw		sheet 5 of 7									
		0.XXX		±0.005															
		angular		0°												±2°			

21W1

LAYOUT AND CONNECTOR DIMENSIONS

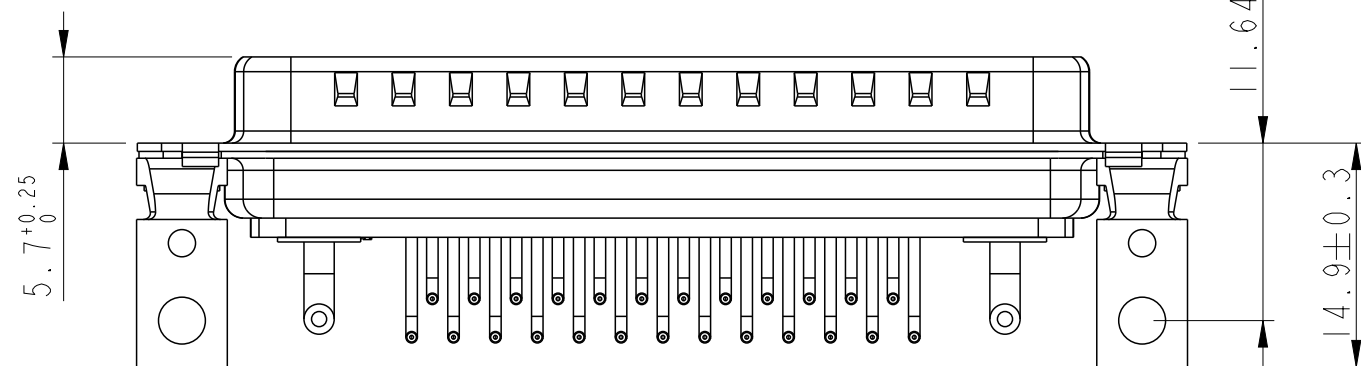
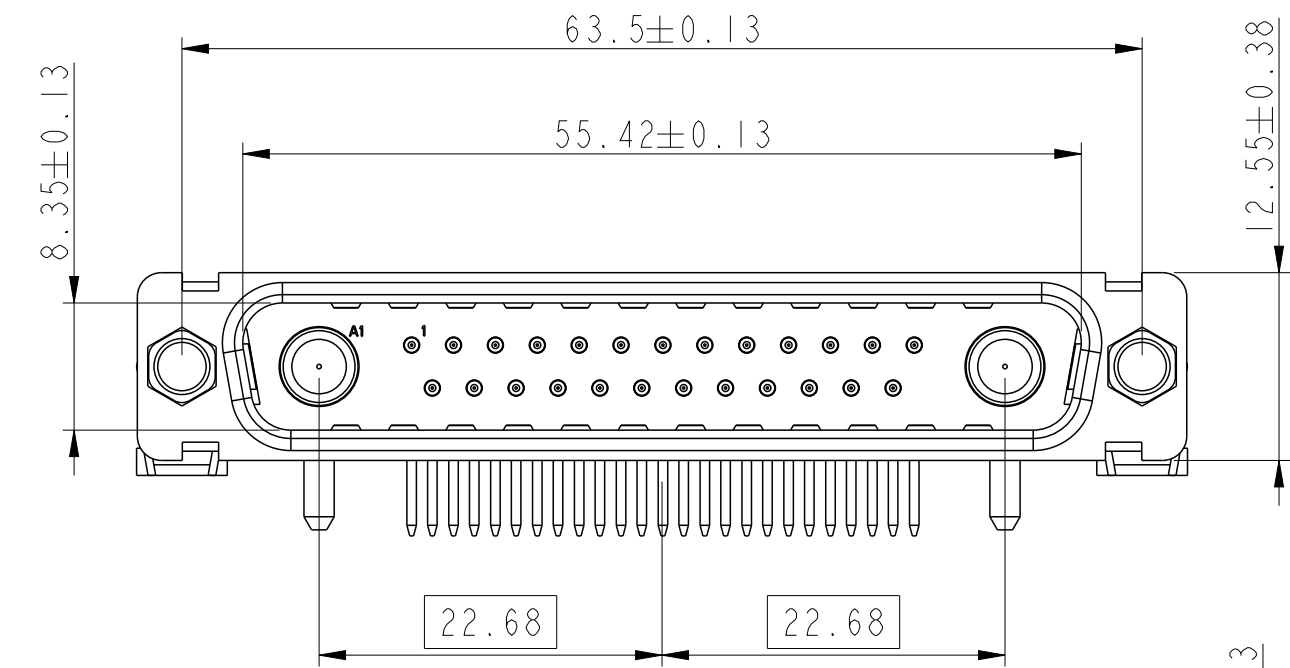
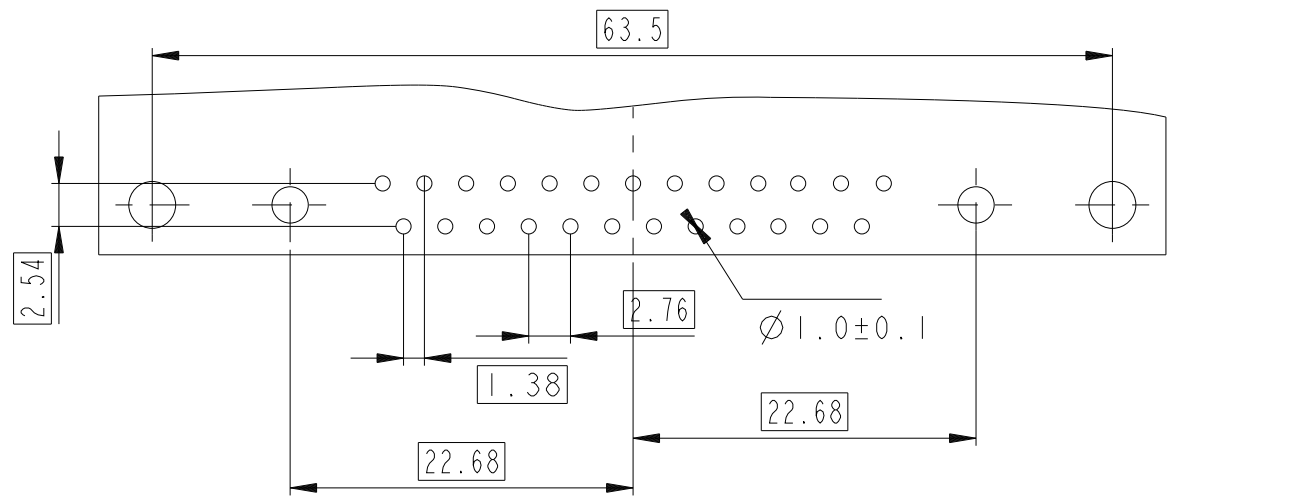
For PCB hole diameters see table I sheet I



27W2

LAYOUT AND CONNECTOR DIMENSIONS

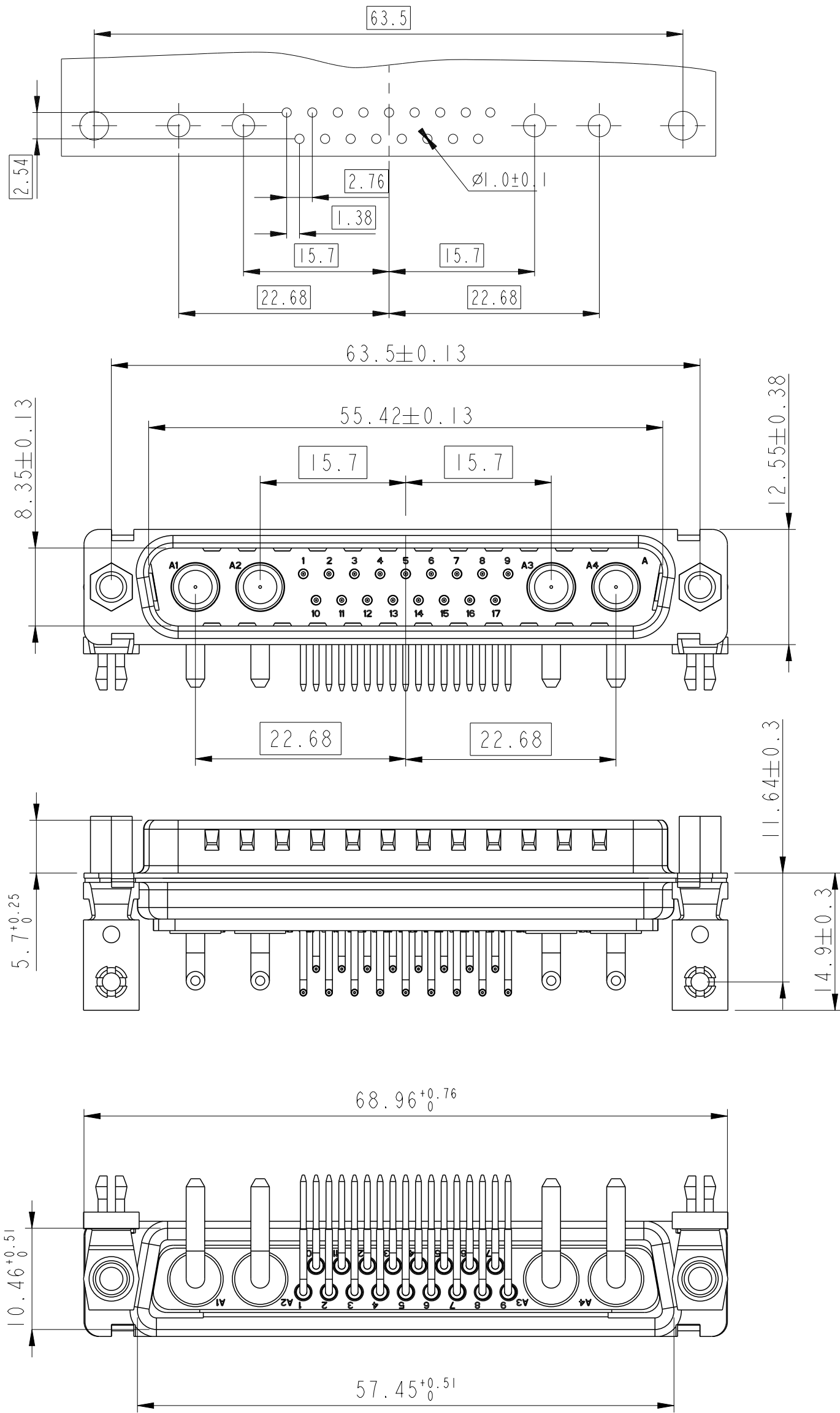
For PCB hole diameters see table I sheet I



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ISO 406			appr		Varma Sudhir		2019/11/12														product family		D SUB-			
surface ISO 1302			linear		0.X		±0.30		Amphenol FCi		title		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg no		C01-8639-2304c		rev		E					
																							0.XX		±0.10	
																							0.XXX		±0.005	
																							angular		0°	
cat. no.			-		Product - Customer Drw		sheet 6 of 7																			

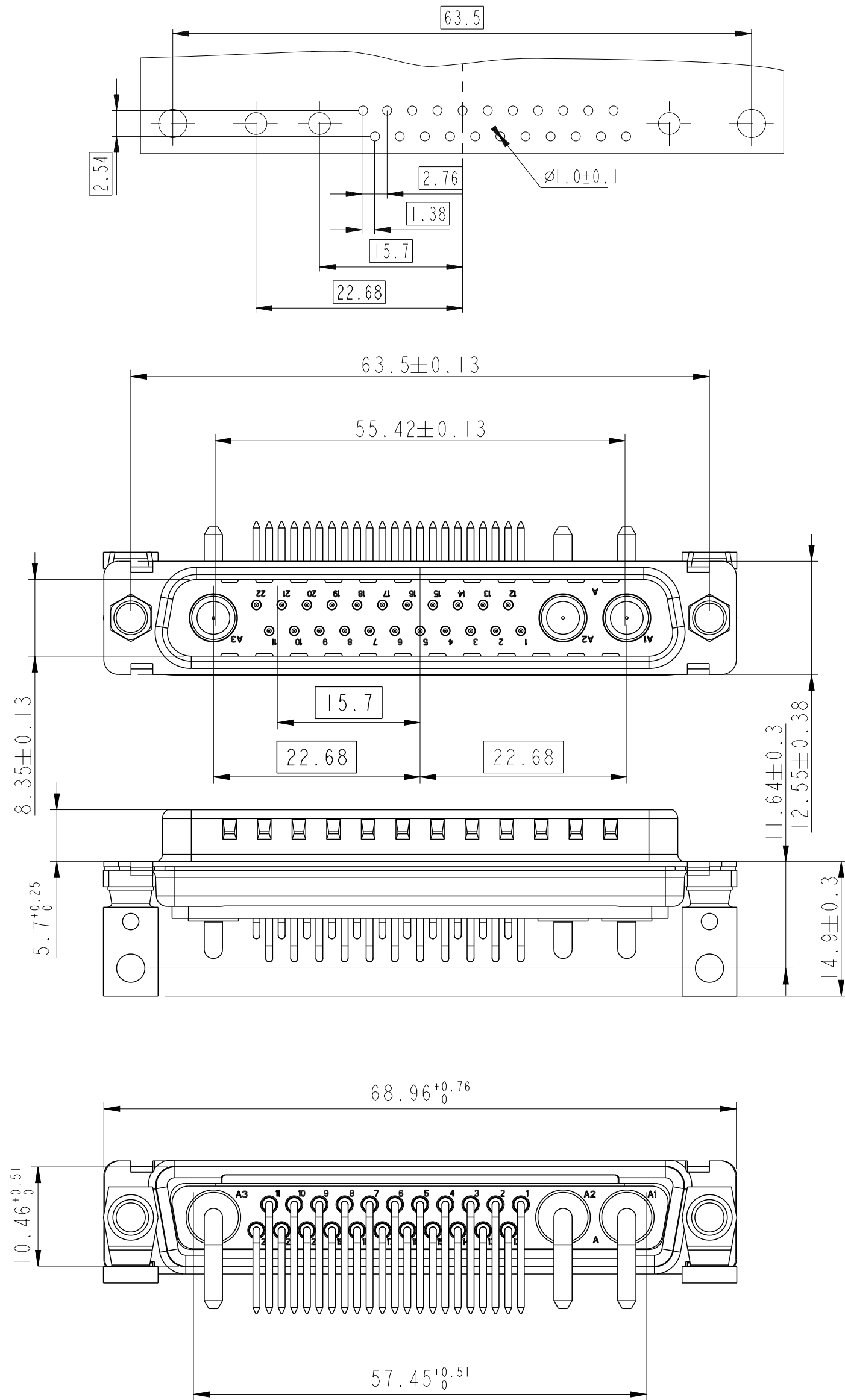
21WA4

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



25W3

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



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ISO 406		appr		Varma Sudhir		2019/11/12		product family		-		rel level		Released					
surface		linear		Amphenol FCi		title		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg no		C01-8639-2304c		rev		E			
		0.X																±0.30	
		0.XX																±0.10	
		0.XXX		±0.05															
ISO 1302		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 7 of 7					