

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

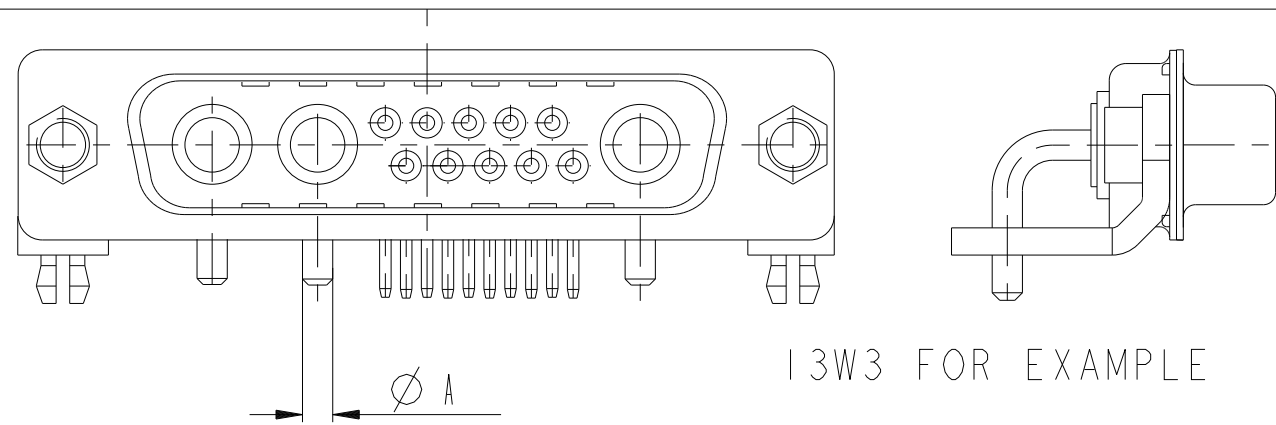
Plating
00 200 matings/unmatings
43 500 matings/unmatings

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.

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø 2.40	Ø 3.10	Ø 1.00
40 A	2.80	Ø 3.10		
Max current Power	Ø A±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10



spec ref		dr		1, Product Eng		2015/06/16		projection		mm		size		A2		scale		1:1			
tolerance std		eng		Gregar Mathew		2019/11/11						ecn no		ELX-1-33009-1							
ISO 1101 ISO 406		chr		-		-															
		appr		Varma Sudhir		2019/11/12		product family		-		rel level		Released							
surface ISO 1302		linear		0.X		±0.3		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT		dwg no		C01-8639-2304c		rev		E	
				0.XX		±0.10.10															
				0.XXX		±0.05															
				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

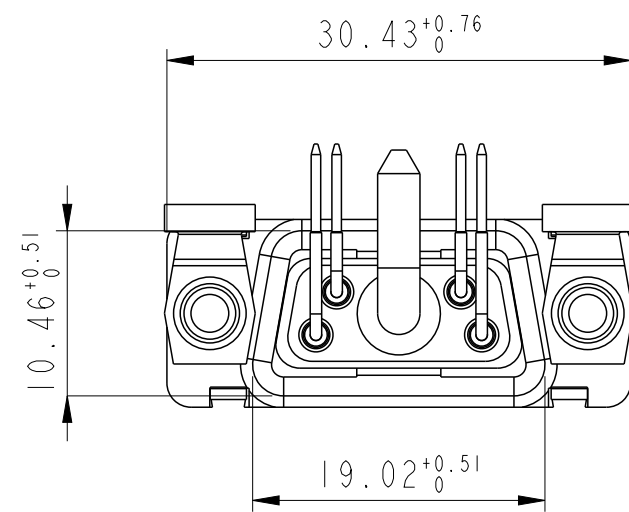
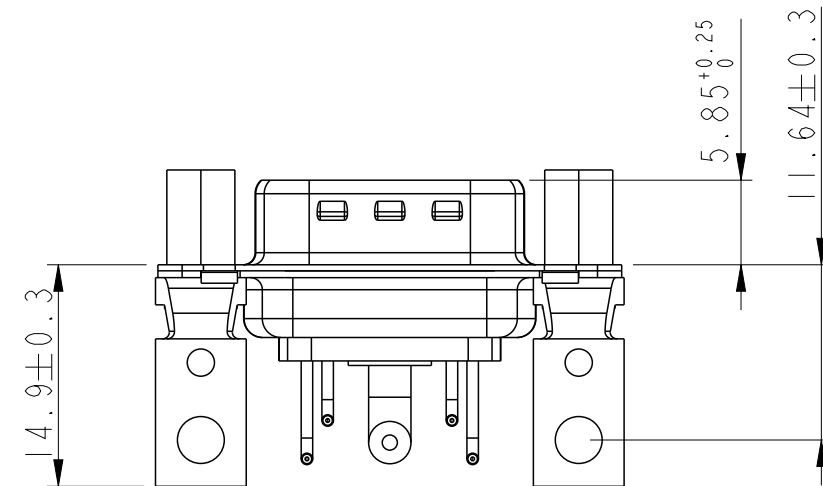
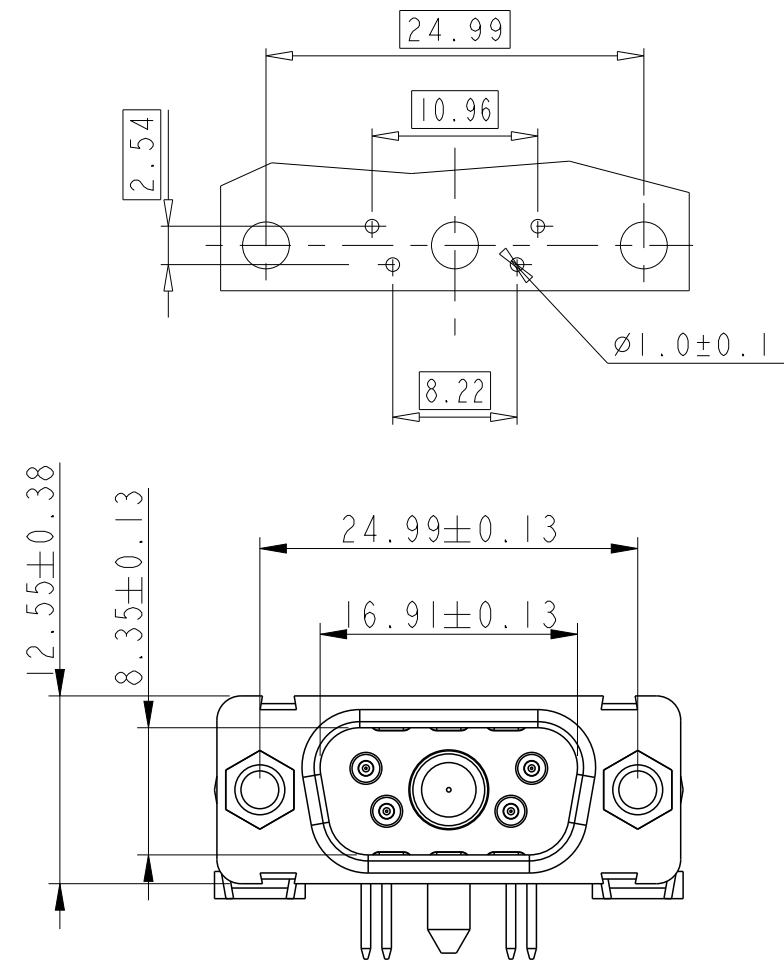
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ISO 1101				chr	-		-															
ISO 1101				appr	Varma Sudhir		2019/11/12				product family			-		rel level		Released				
ISO 406				TOLERANCES UNLESS OTHERWISE SPECIFIED																		
surface	linear	0.X	±0.30	Amphenol FCi	title	SUB MALE DW 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	

Floating signal contacts

5W1

LAYOUT AND CONNECTOR DIMENSIONS

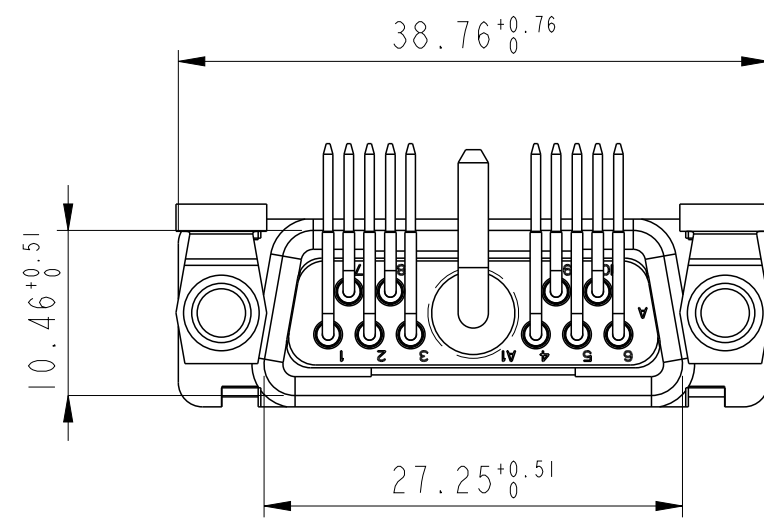
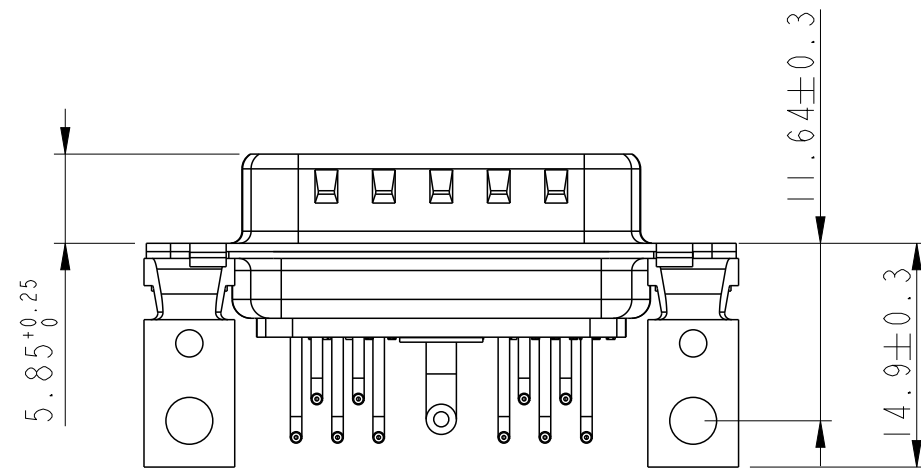
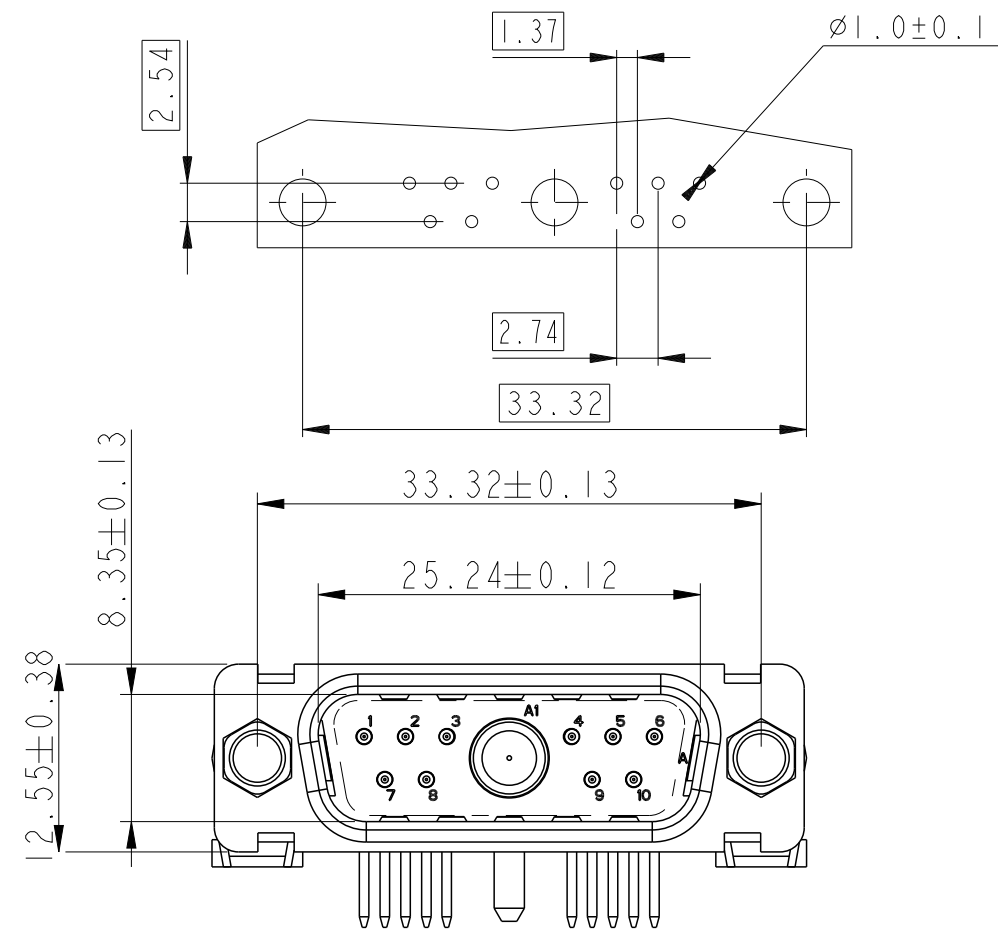
For PCB hole diameters see table I sheet I



11W1

LAYOUT AND CONNECTOR DIMENSIONS

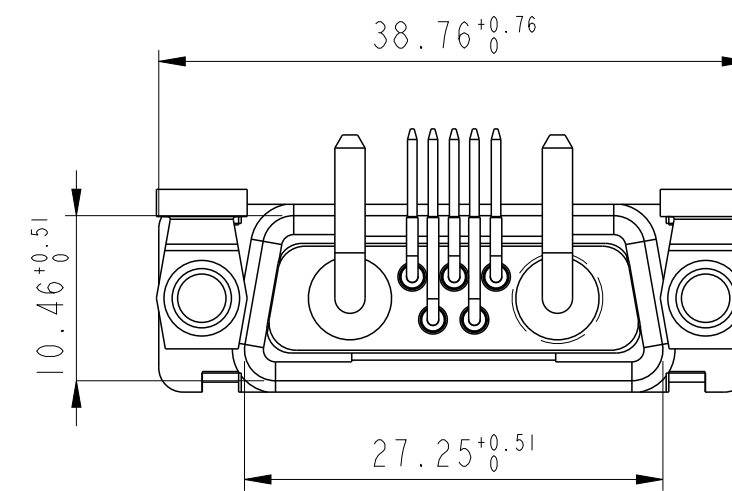
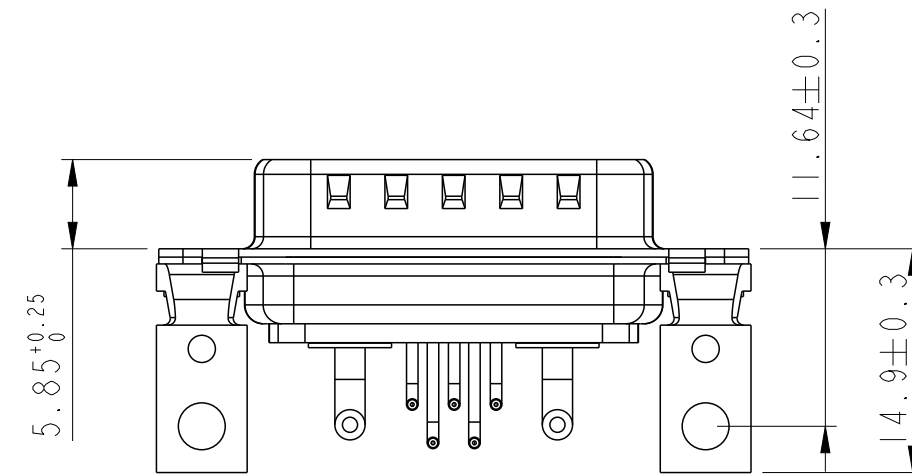
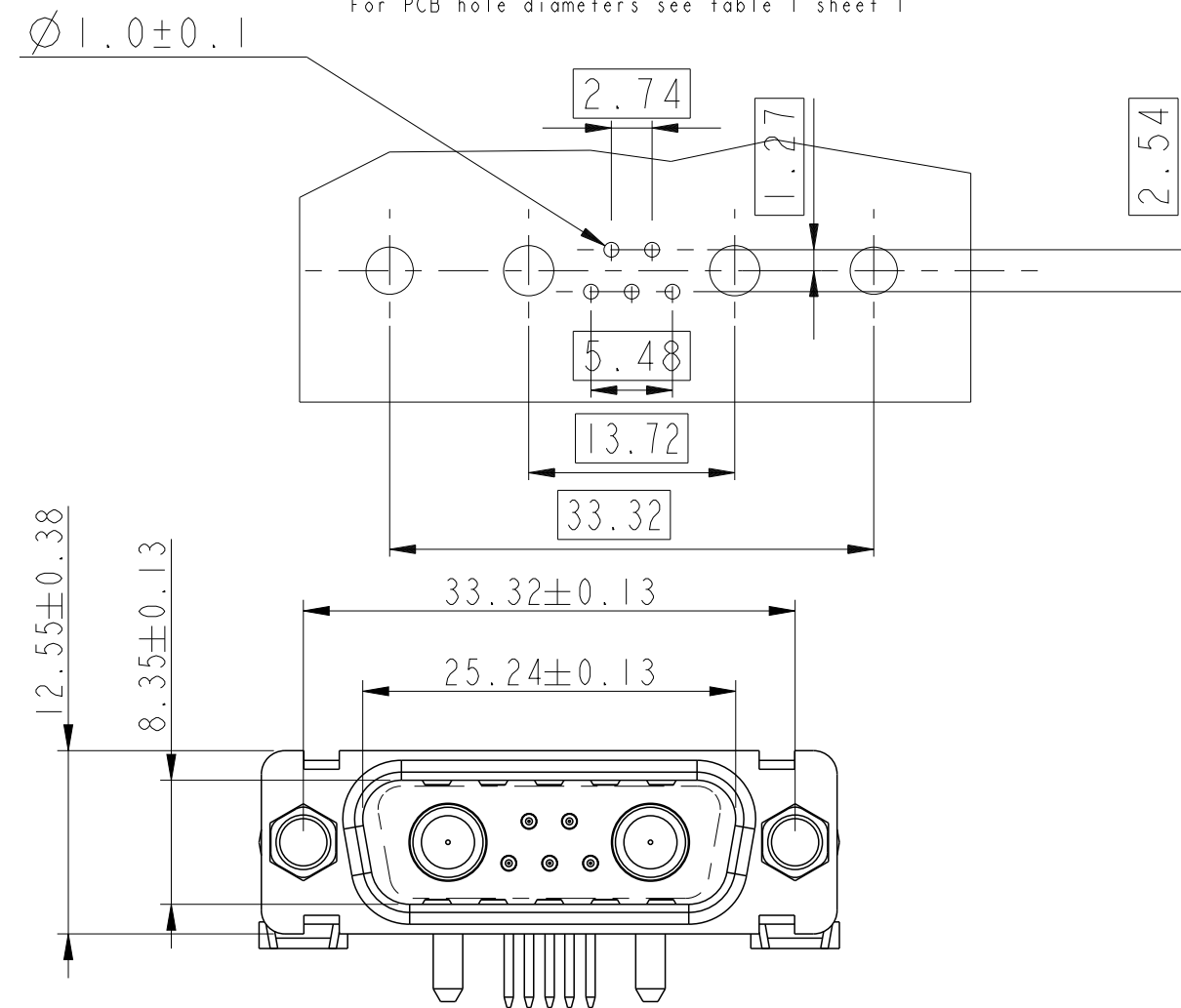
For PCB hole diameters see table I sheet I



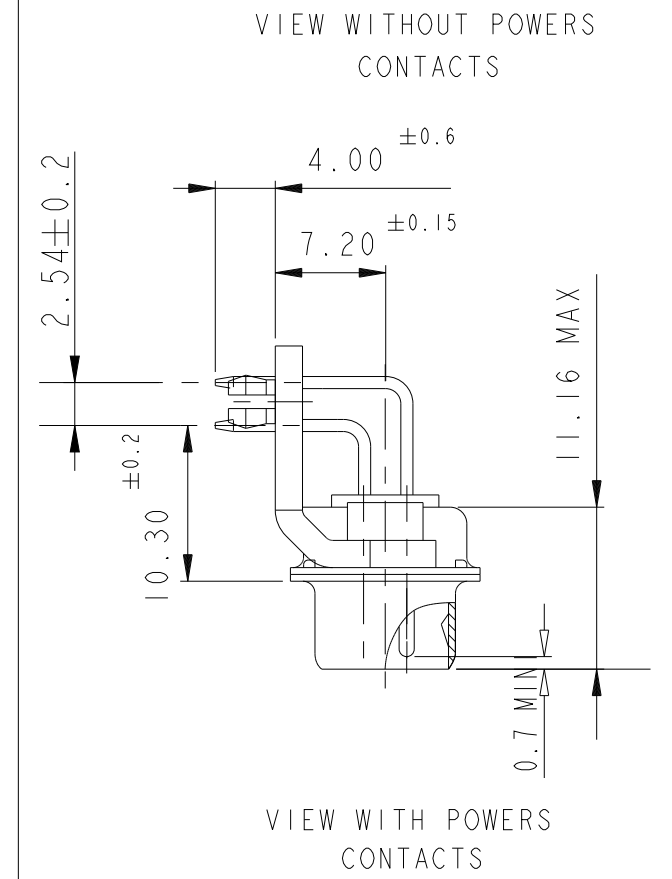
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



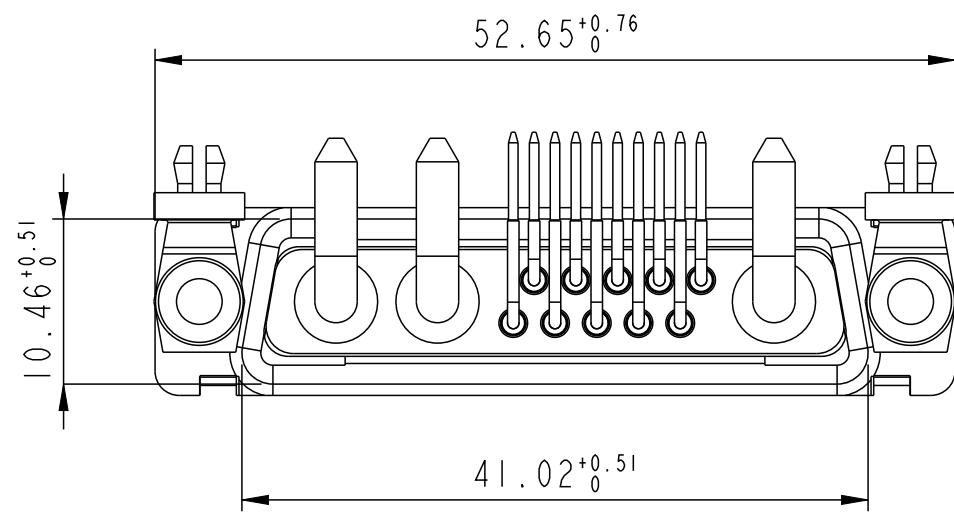
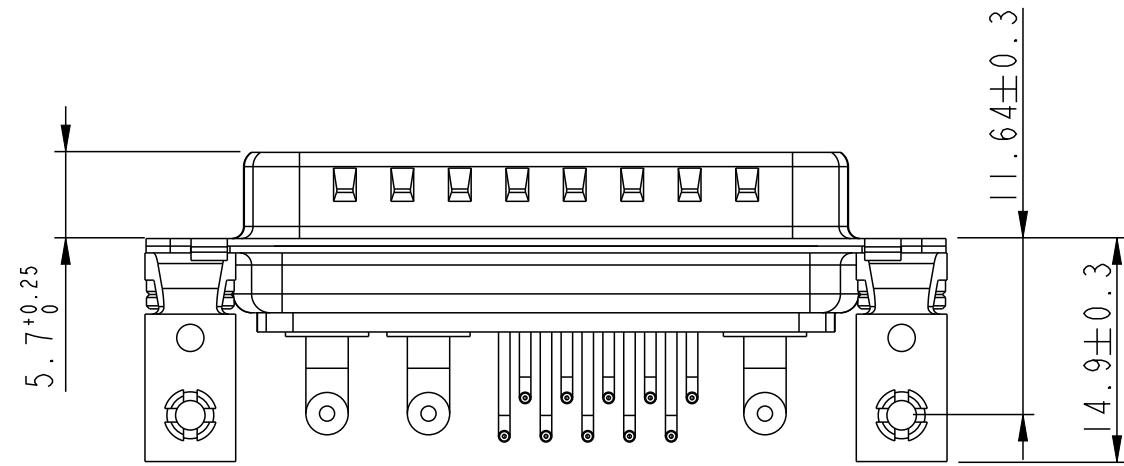
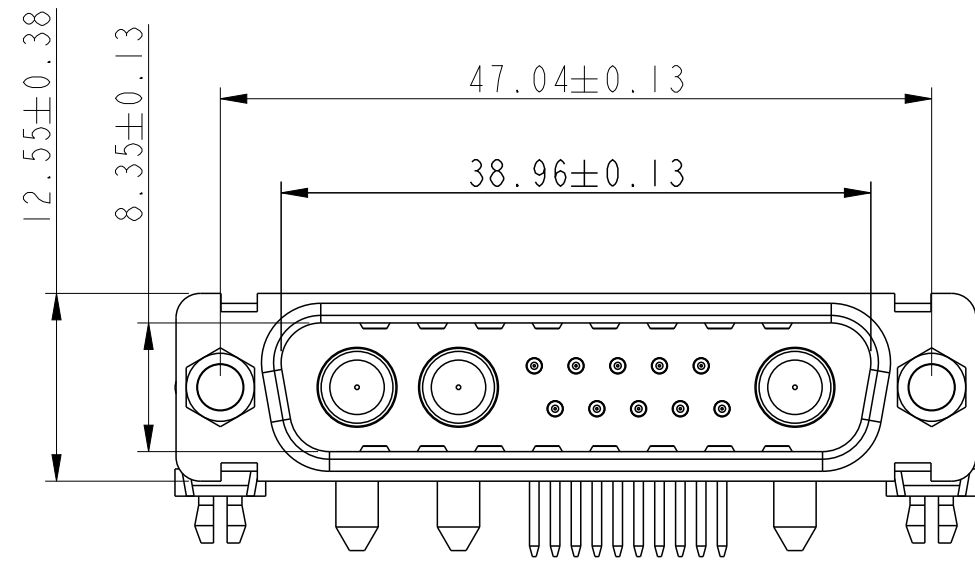
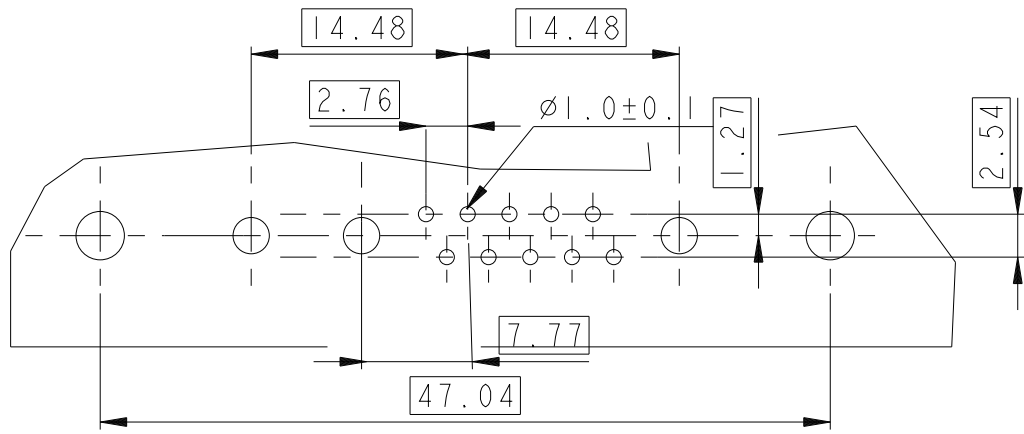
SIDE VIEW FOR ALL LAYOUTS



spec ref		dr		1, Product Eng		2015/06/16		projection		mm		size		scale			
tolerance std		eng		Gregar Mathew		2019/11/11						A2		2:1			
ISO 1101		chr		-		-						ecn no		ELX-133009-1			
ISO 406		appr		Varma Sudhir		2019/11/12		product family		D SUB		rel level		Released			
surface		linear		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT		dwg no		C01-8639-2304c		rev			
		0.x														±0.30	
		0.xx														±0.10	
		0.xxx															
ISO 1302		angular															
		0°															
		±0.05															
		±0.2															

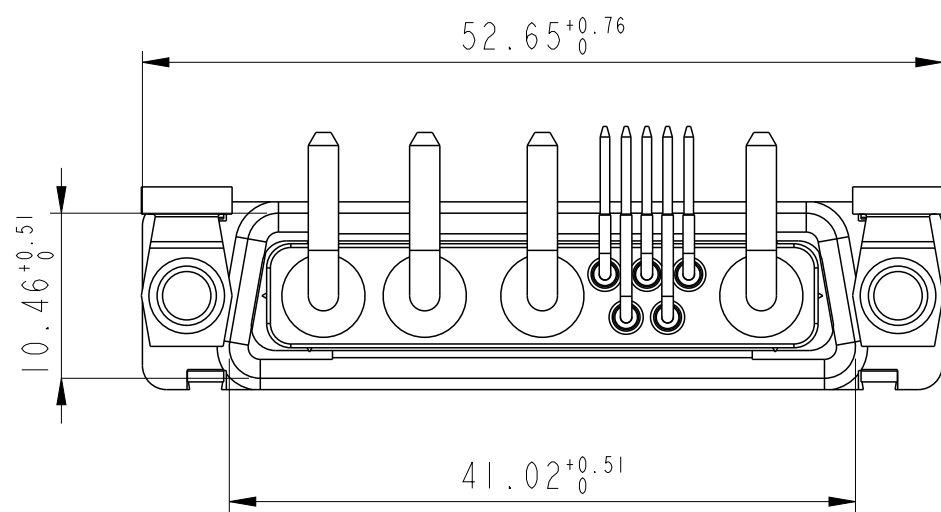
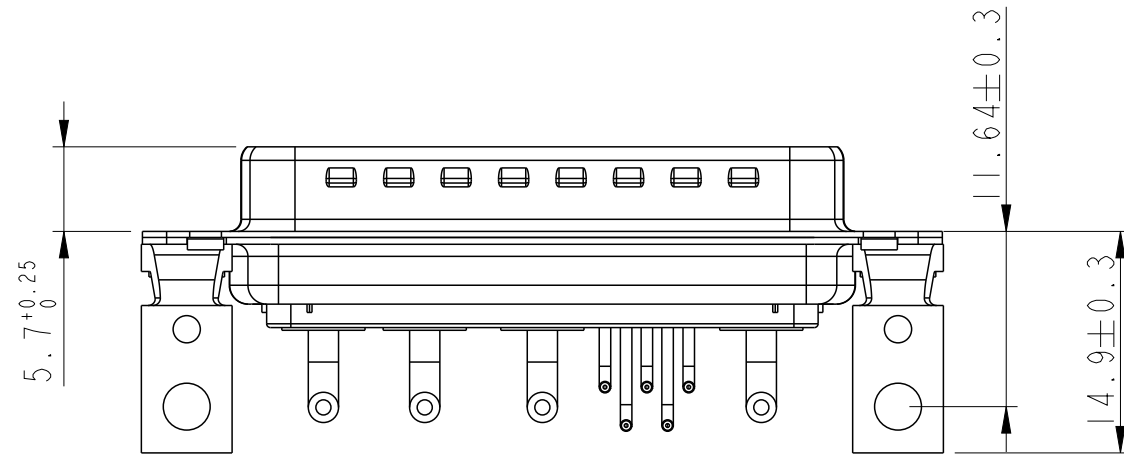
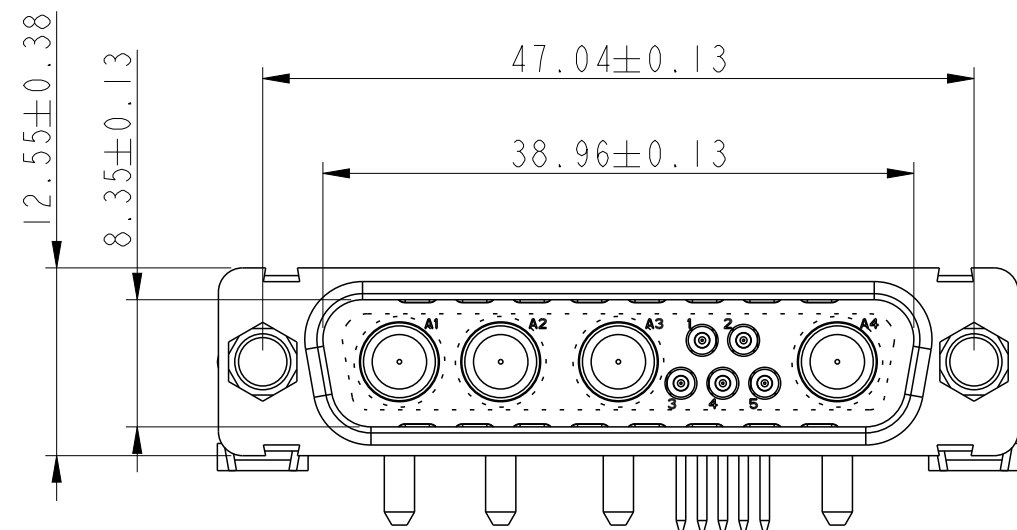
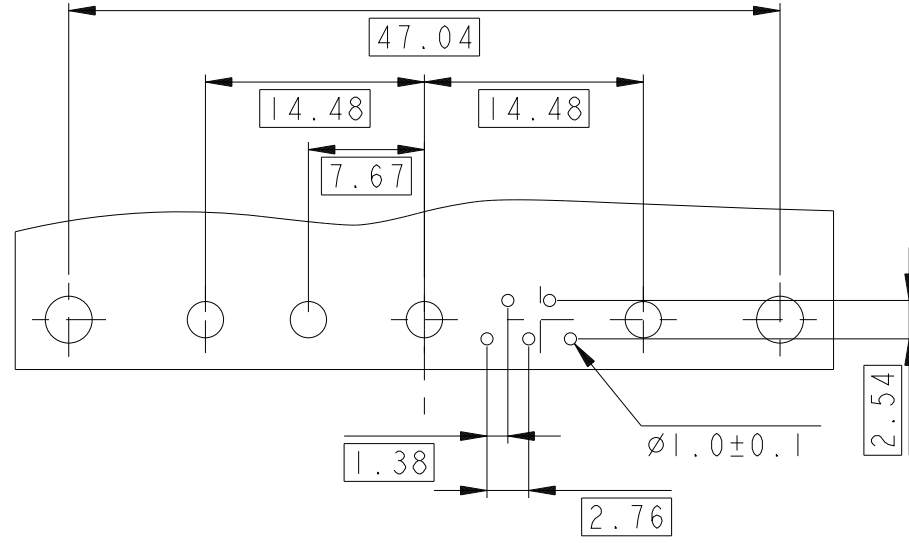
13W3

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



9W4

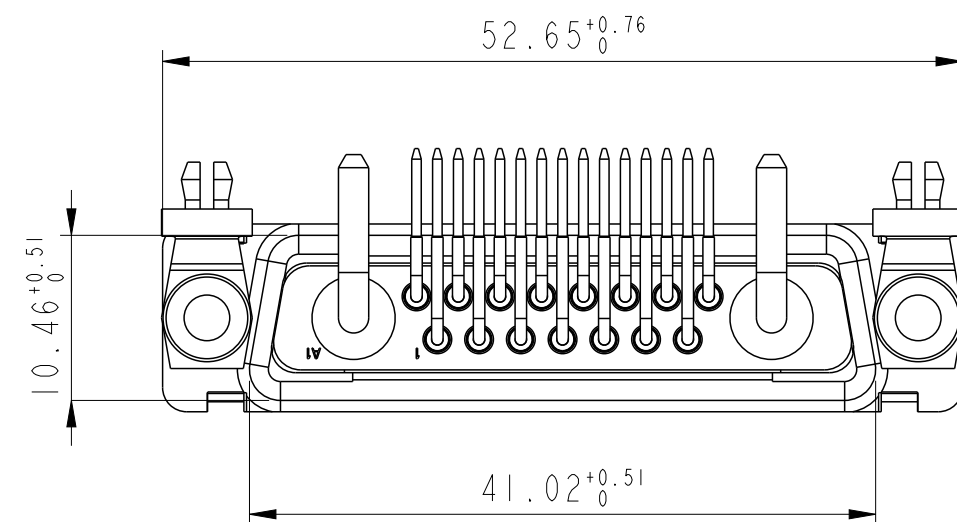
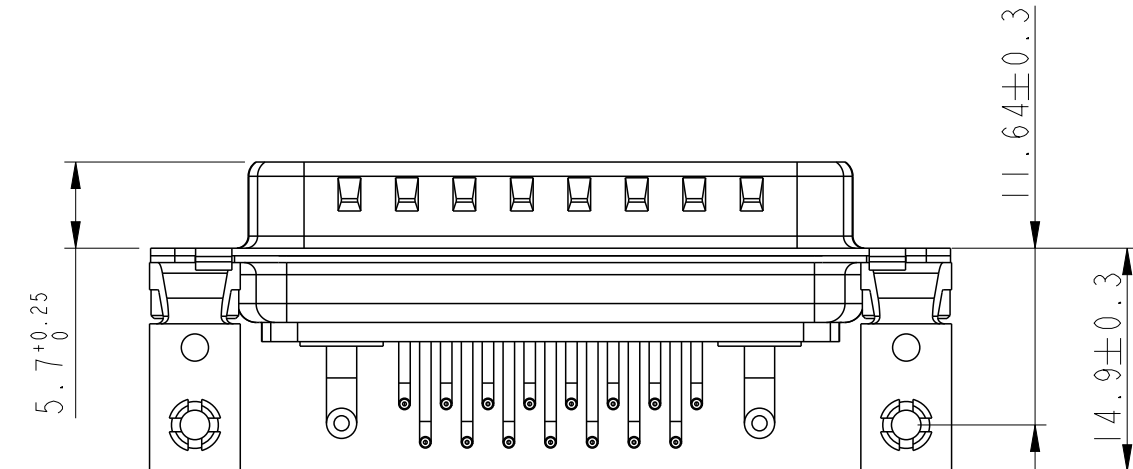
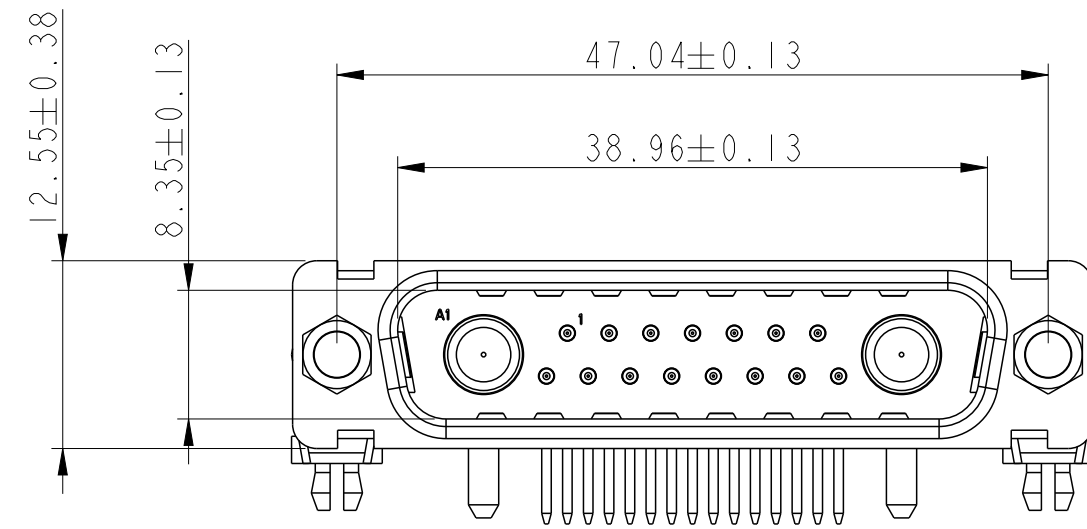
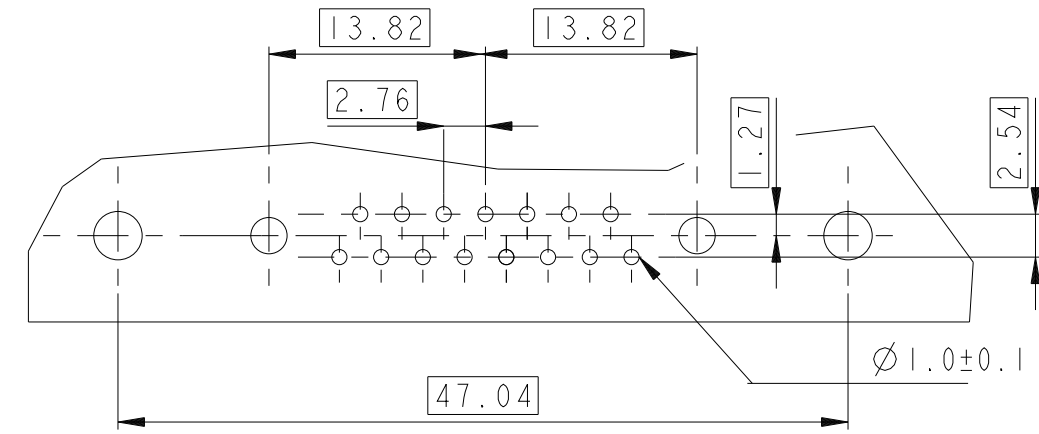
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

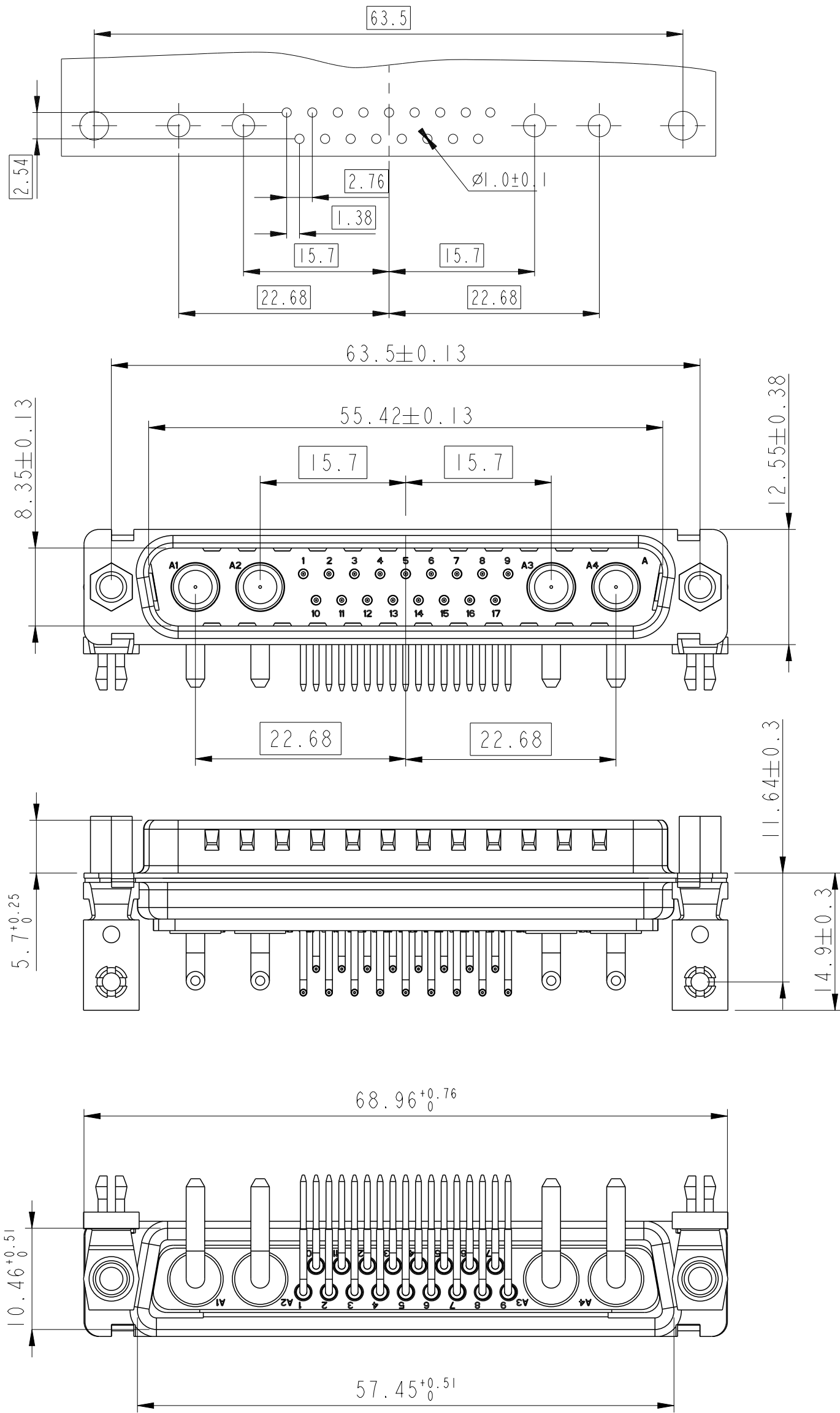
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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tolerance std		eng		Gregar Mathew		2019/11/11						ecn no		ELX-1-33009-1													
ISO 1101		chr		-		-						rel level		Released													
ISO 406		appr		Varma Sudhir		2019/11/12		product family		D SUB -																	
surface - ISO 1302		linear		0.X ±0.30 0.XX ±0.10 0.XXX ±0.005		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER						dwg no		C01-8639-2304c						rev		E	
cat. no.		-		Product -		Customer Drw		sheet 5 of 7																			

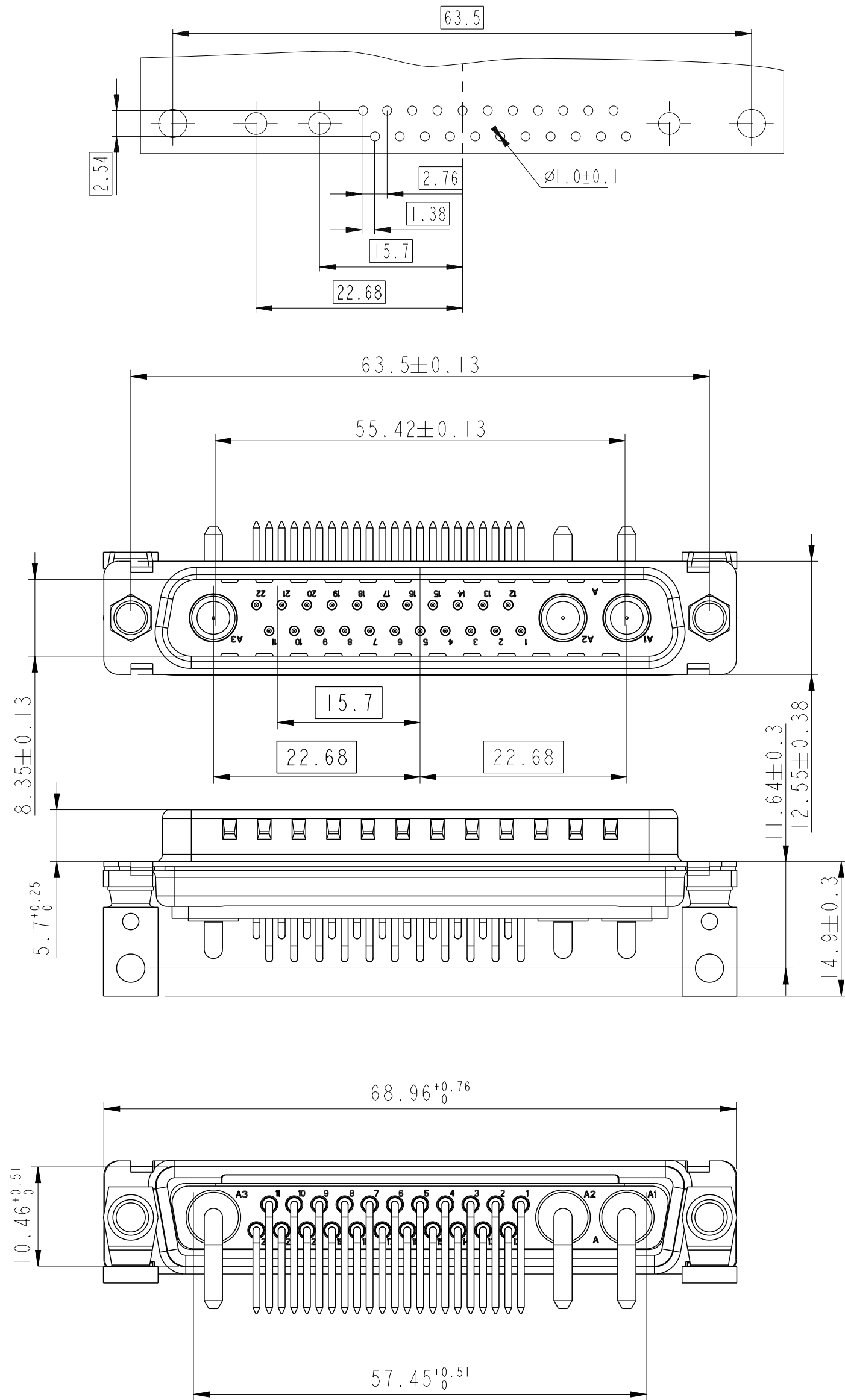
21WA4

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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tolerance std		eng		Gregar Mathew		2019/11/11				A2		2:1					
ISO 1101		chr		-		-				ech no		ELX-133009-1					
ISO 406		appr		Varma Sudhir		2019/11/12		product family		-		rel level		Released			
surface		linear				title		SUB MALE DW EUROPE FOOT PRINT				dwg no		C01-8639-2304c		rev	
ISO 1302								MIXED POWER RIGHT ANGL SOLDER								E	
		angular				0°		±2°									
						cat. no.		-		Product - Customer Drw				sheet 7 of 7			