

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

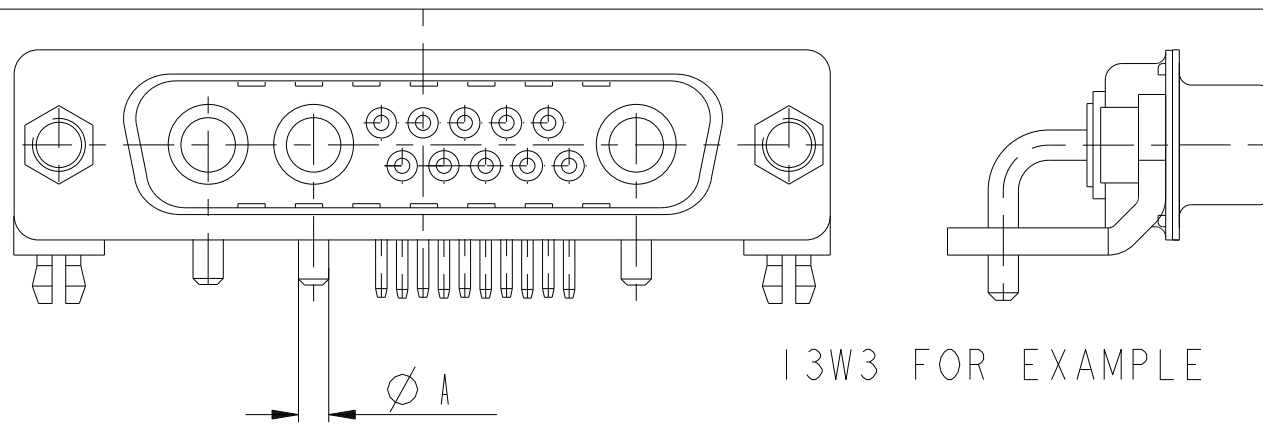
Power contacts
30 : Fitted with power contacts 30 Amp.
40 : Fitted with power contacts 40 Amp.

DBL13W3P500G30LF

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	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



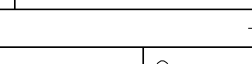
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ISO 1101 ISO 406			chr-		2019/11/12											
TOLERANCES UNLESS OTHERWISE SPECIFIED			apprVarma Sudhir		2019/11/12		product family				-					
surface			Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER				dwg noC01-8639-2304c		revE			
linear																
angular																
ISO 1302							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

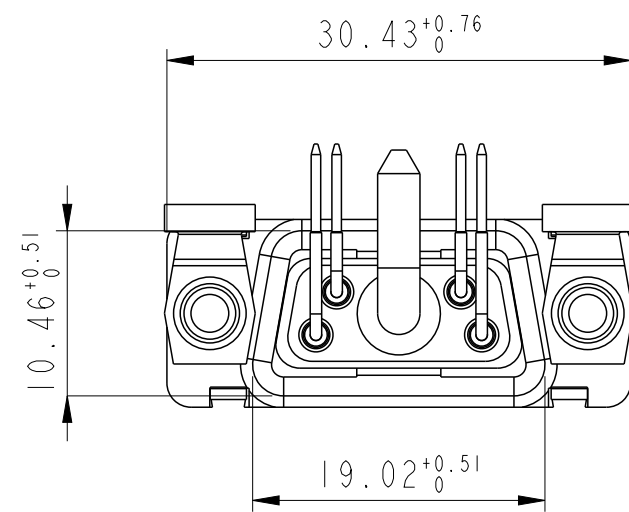
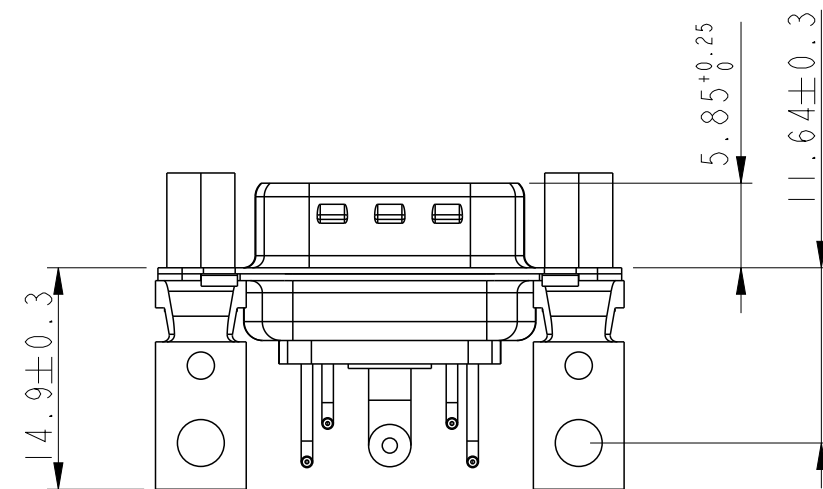
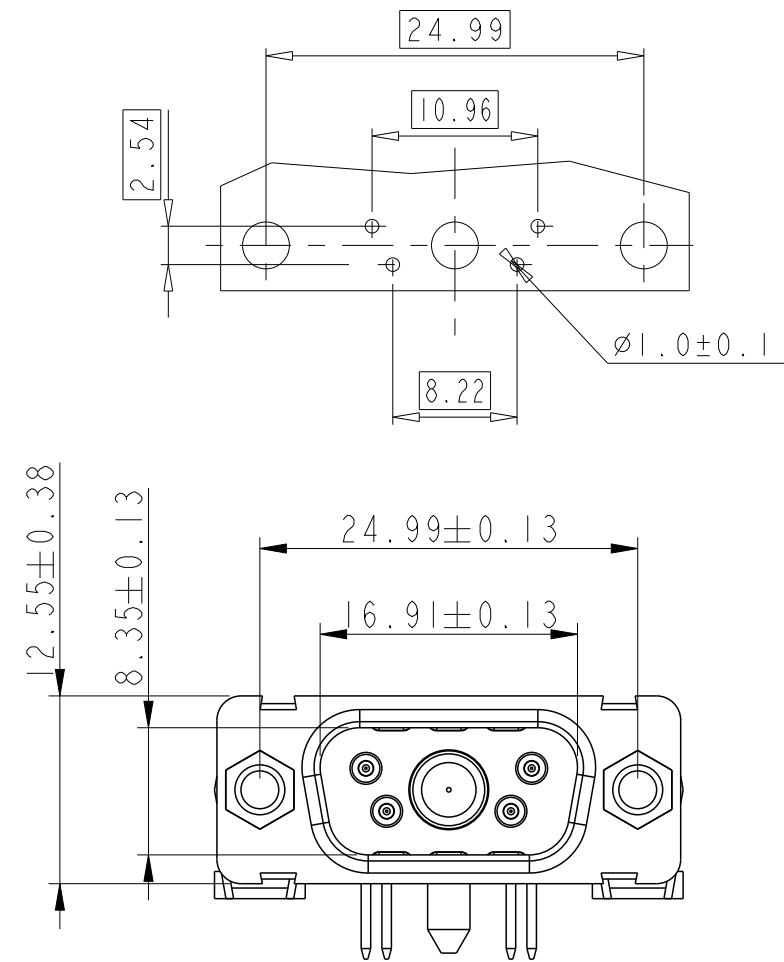
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ISO 1101				chr	-		-									
ISO 1101					-											
ISO 406					appr		Varma Sudhir					2019/11/12		product family		-
surface	linear	0.X	±0.30	Amphenol FCi	title	SUB MALE DW EUROPE FOOT PRINT						dwg no	C01-8639-2304c		rev	E
		0.XX	±0.10			MIXED POWER RIGHT ANGL SOLDER										
		0.XXX	±0.05													
		angular	0°										±°2			
		ISO 1302				cat. no.		-		Product - Customer Drw						

A
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5W1

LAYOUT AND CONNECTOR DIMENSIONS

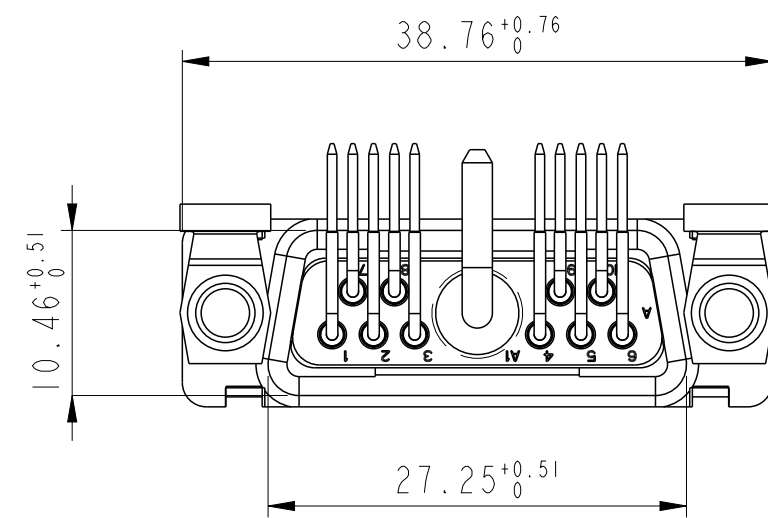
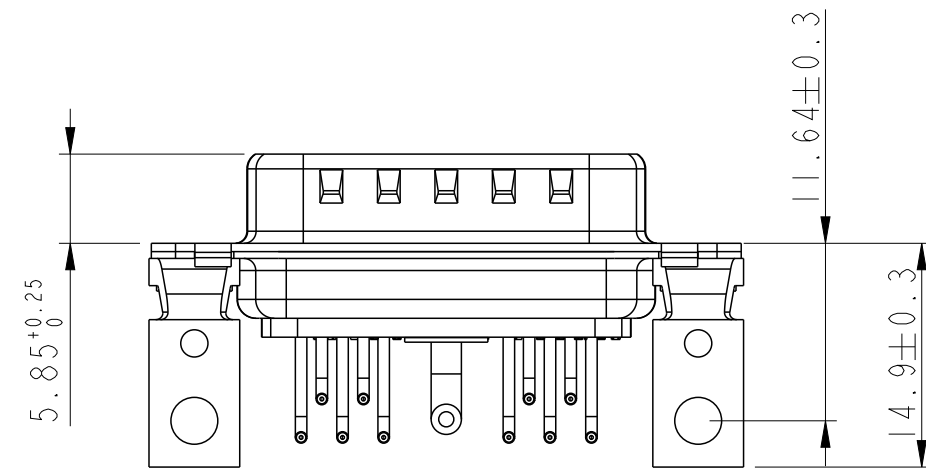
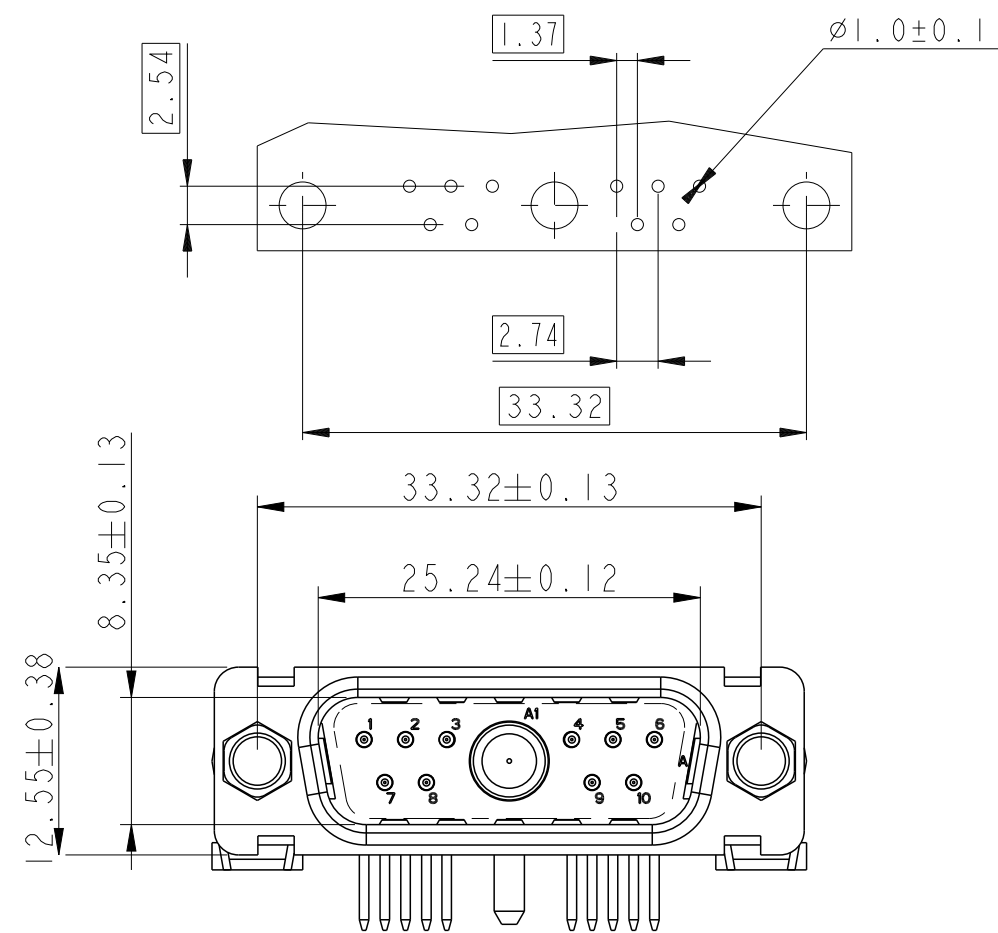
For PCB hole diameters see table I sheet I



11W1

LAYOUT AND CONNECTOR DIMENSIONS

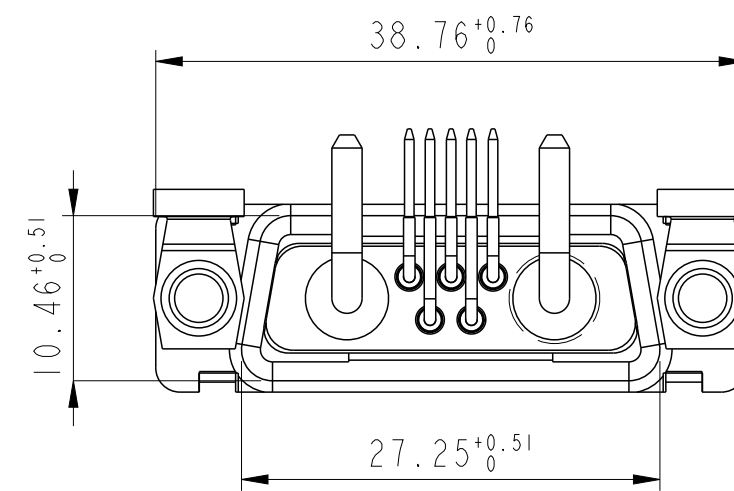
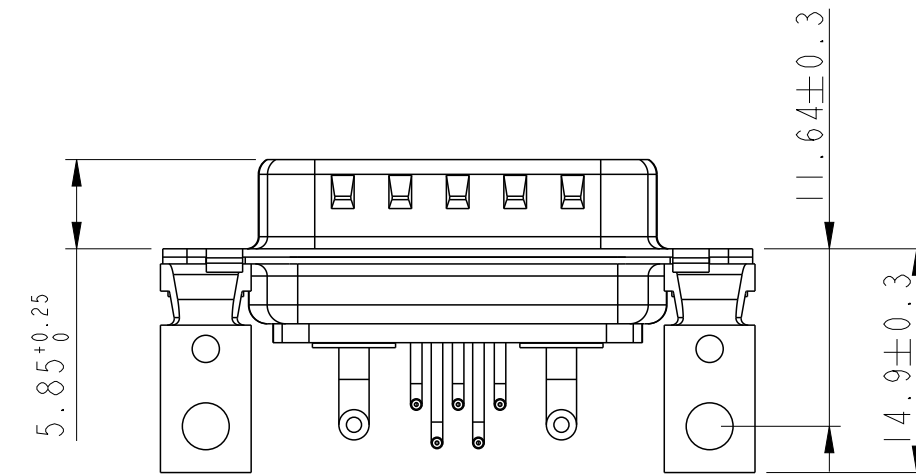
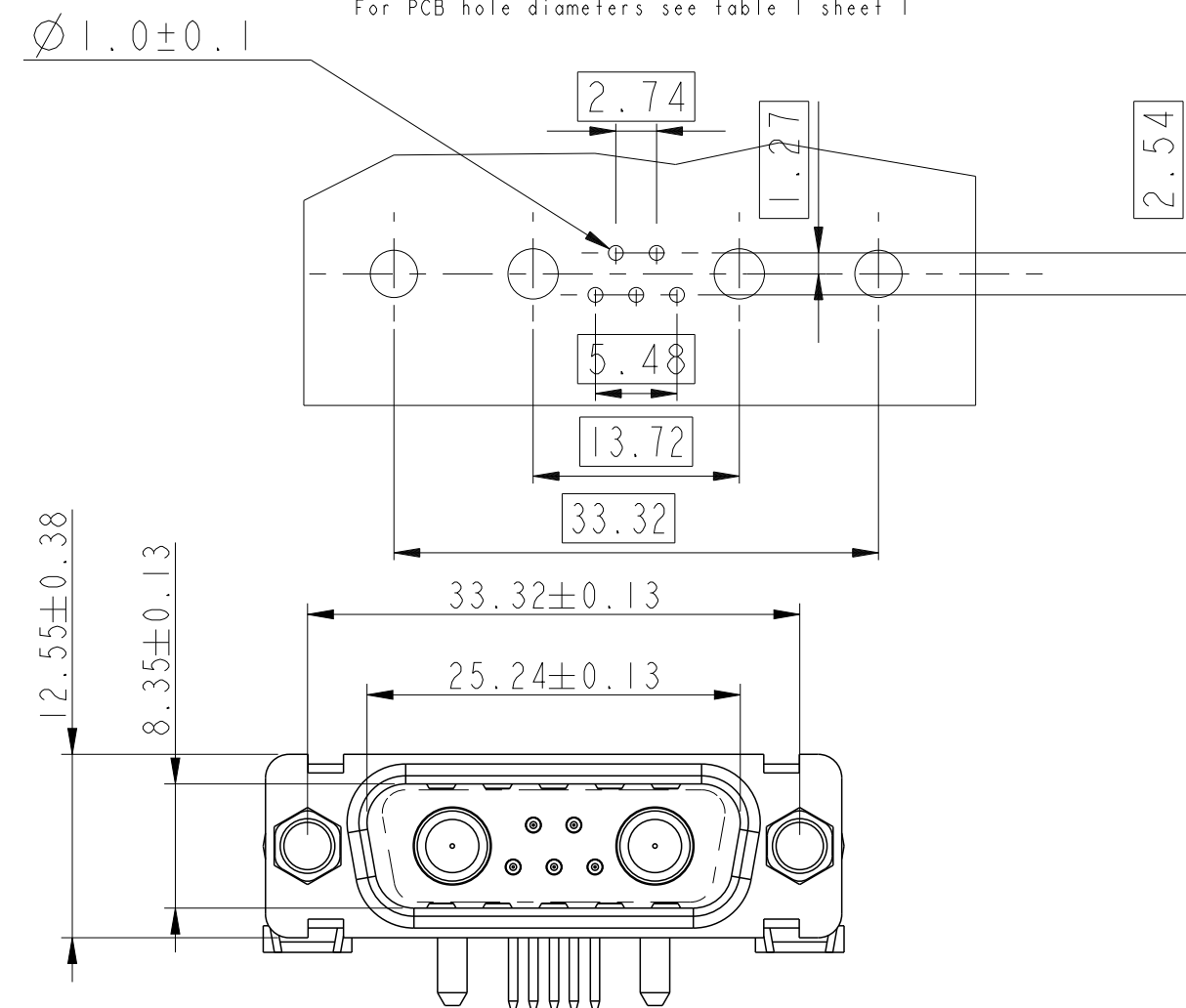
For PCB hole diameters see table I sheet I



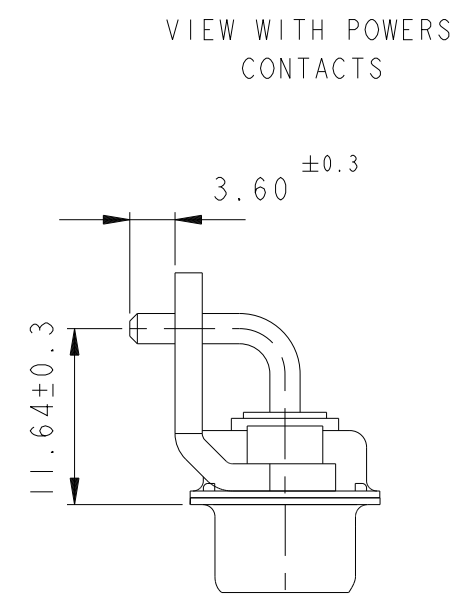
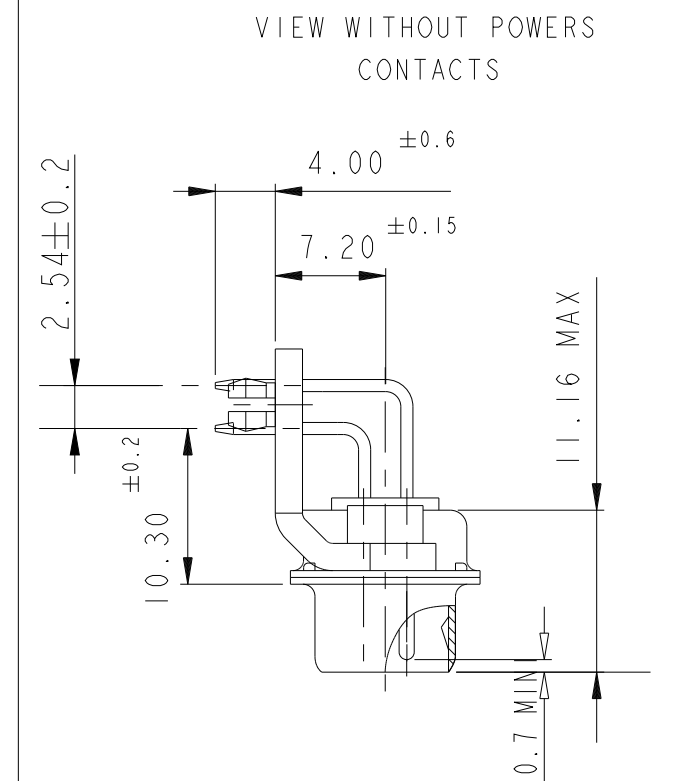
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



SIDE VIEW FOR ALL LAYOUTS

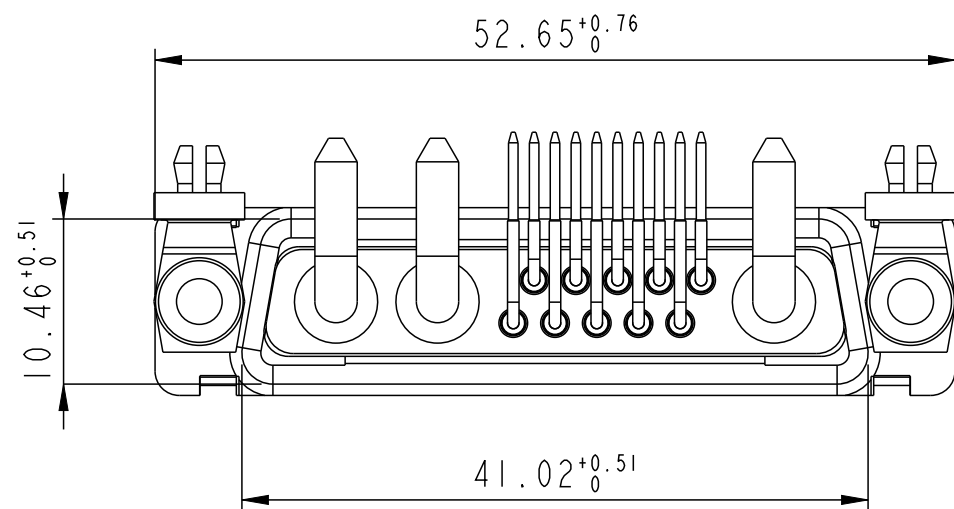
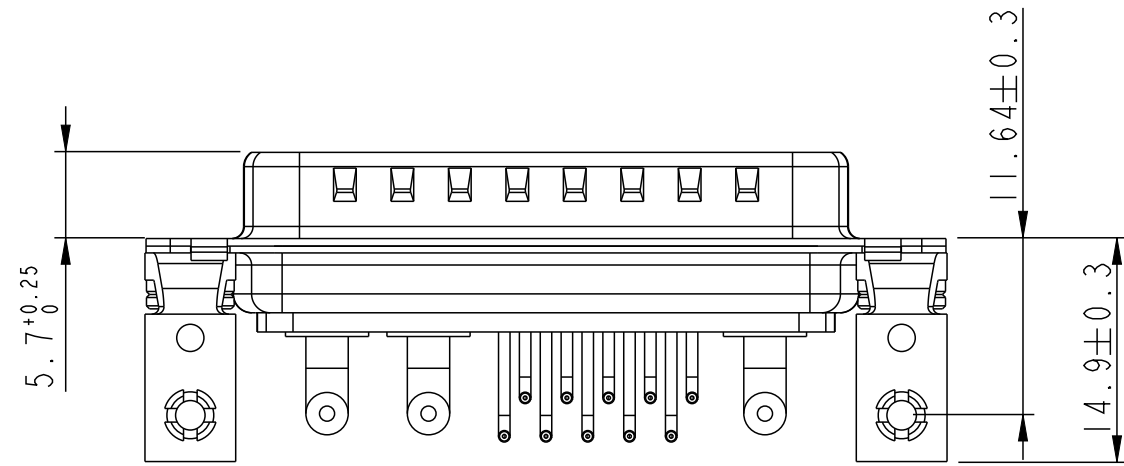
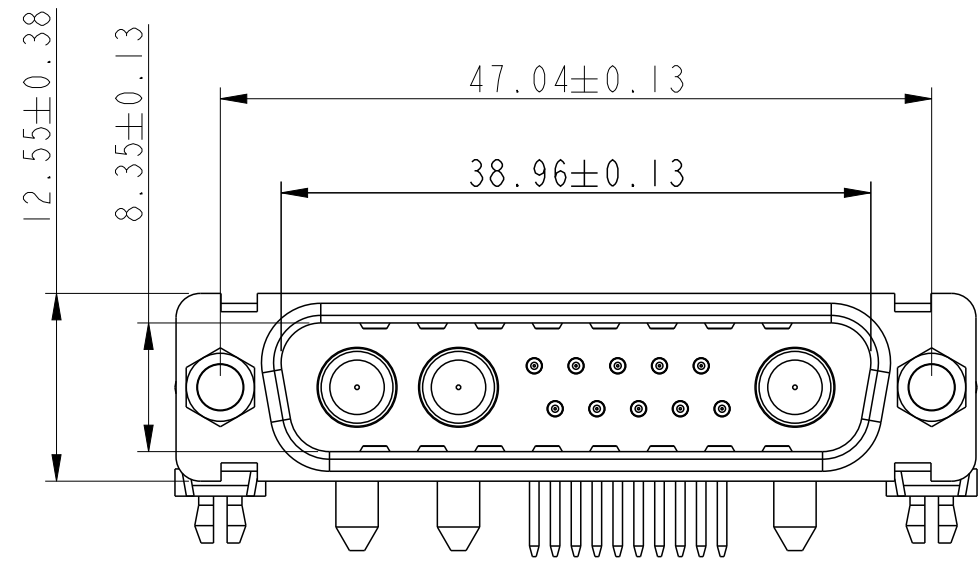
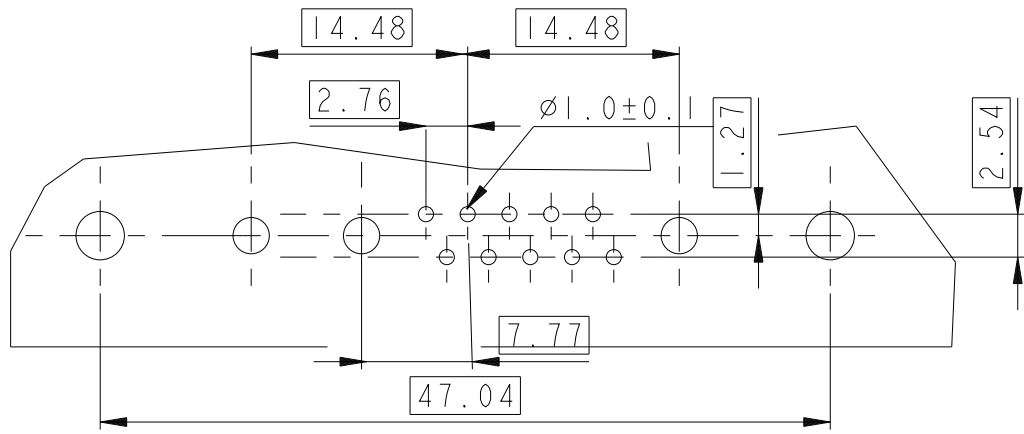


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ISO 1101		chr		-		-		-		-		rel level		Released							
ISO 406		appr		Varma Sudhir		2019/11/12		product family		D SUB -		-		-							
surface		linear		0.X		±0.30		Amphenol		FCi		title		SUB MALE DW EUROPE FOOT PRINT		dwg no		C01-8639-2304c		rev	
ISO 1302				0.XX		±0.10								MIXED POWER RIGHT ANGL SOLDER						E	
		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 4 of 7							

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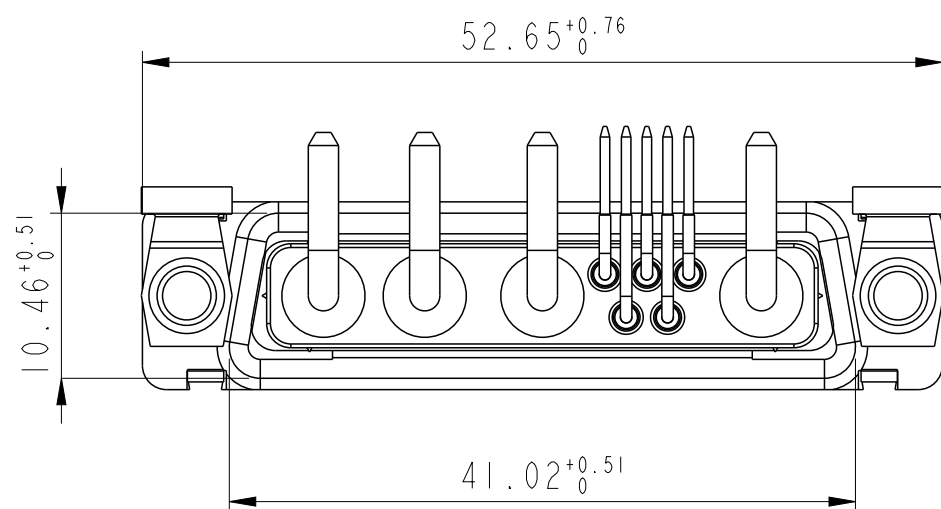
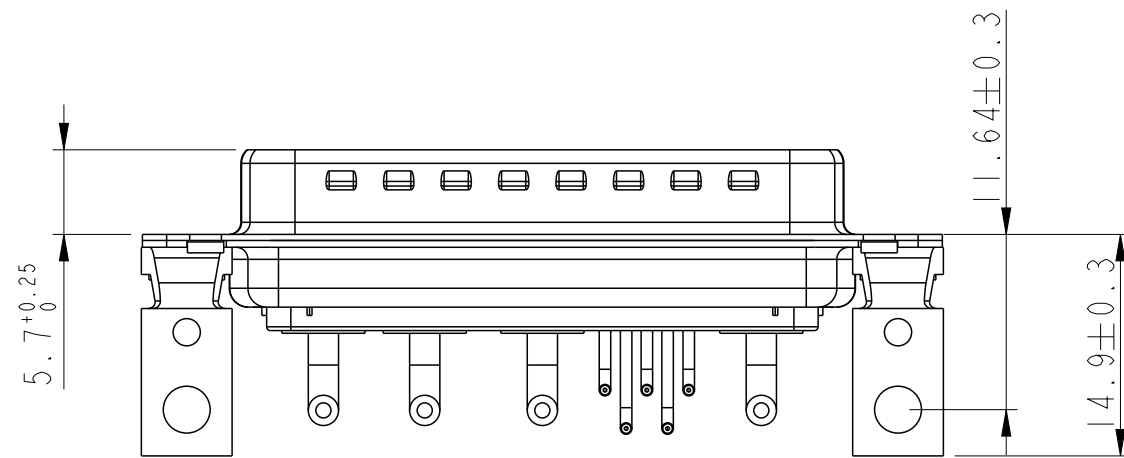
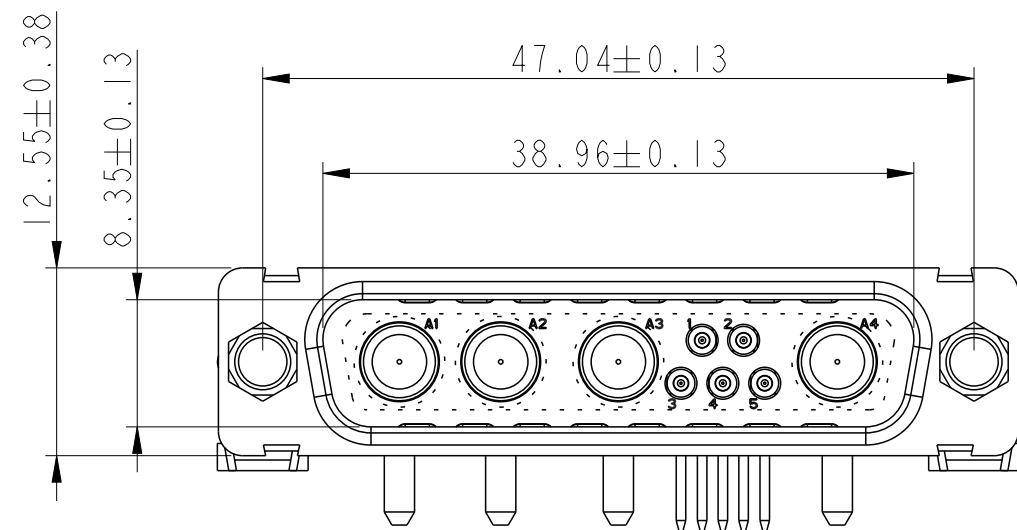
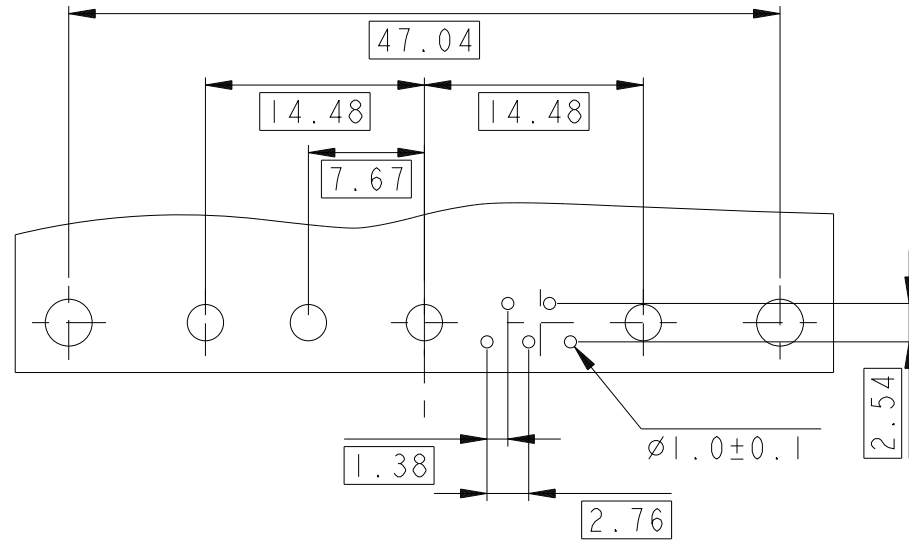
13W3

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



9W4

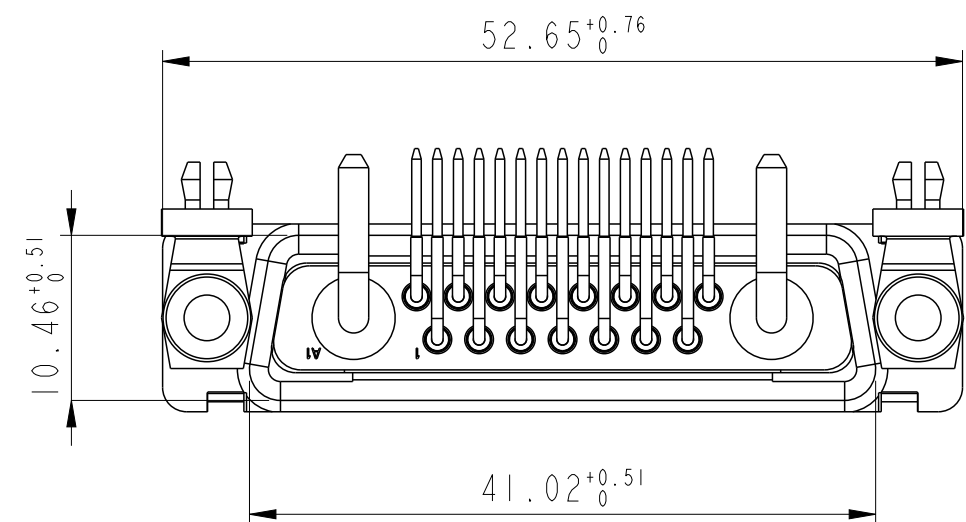
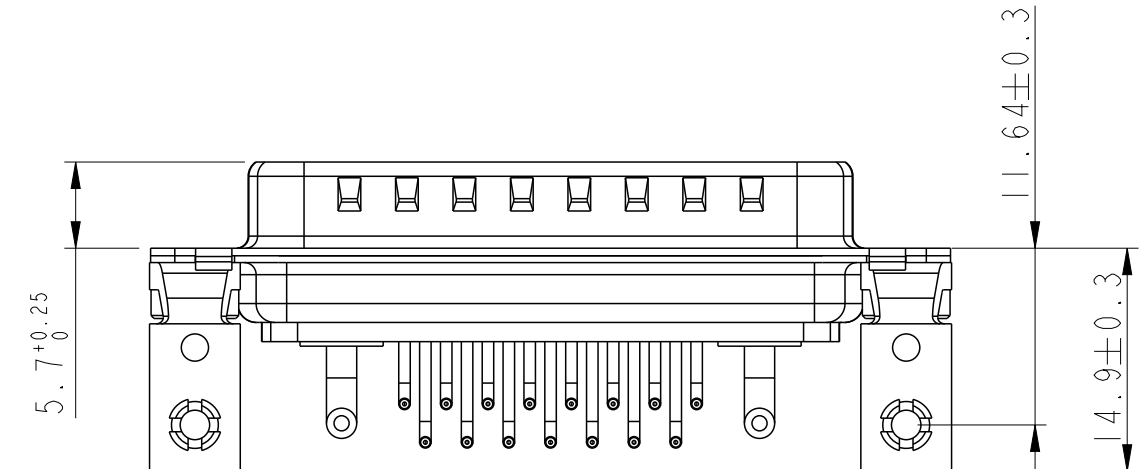
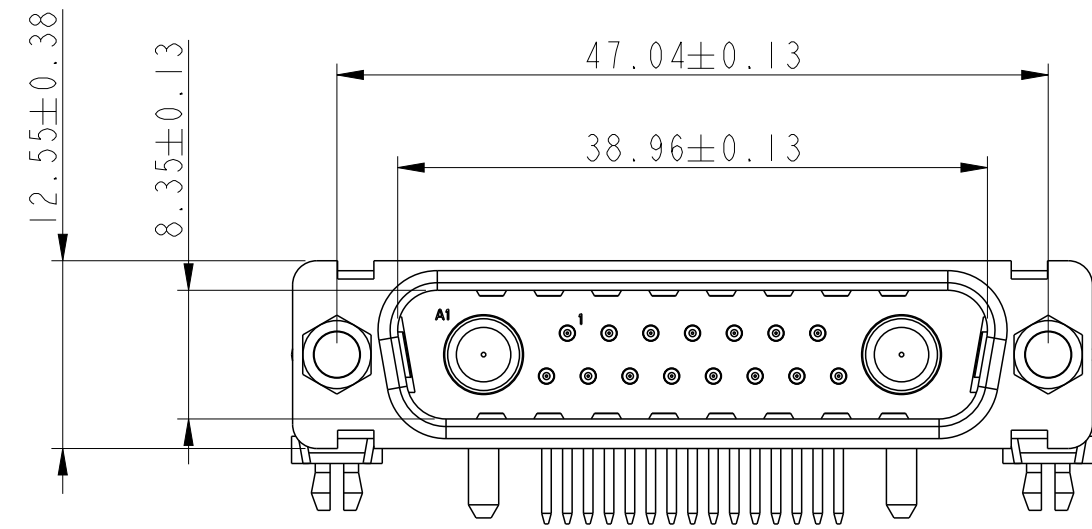
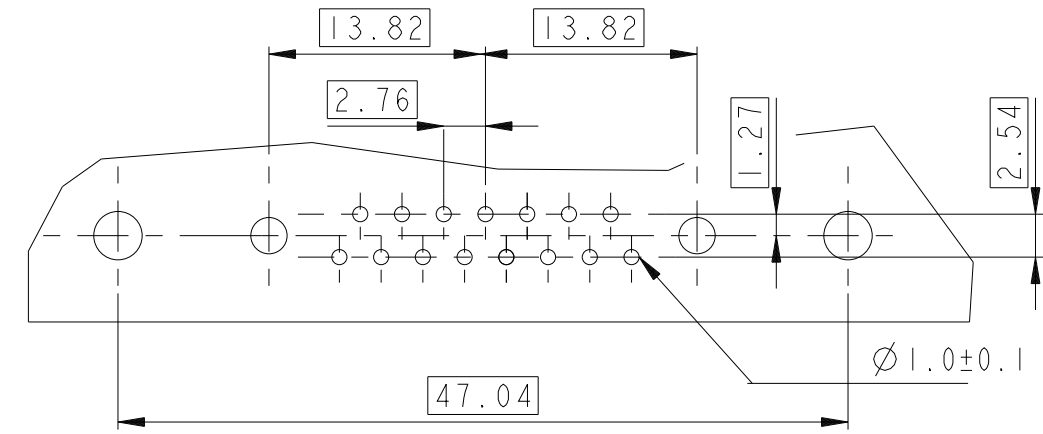
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

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

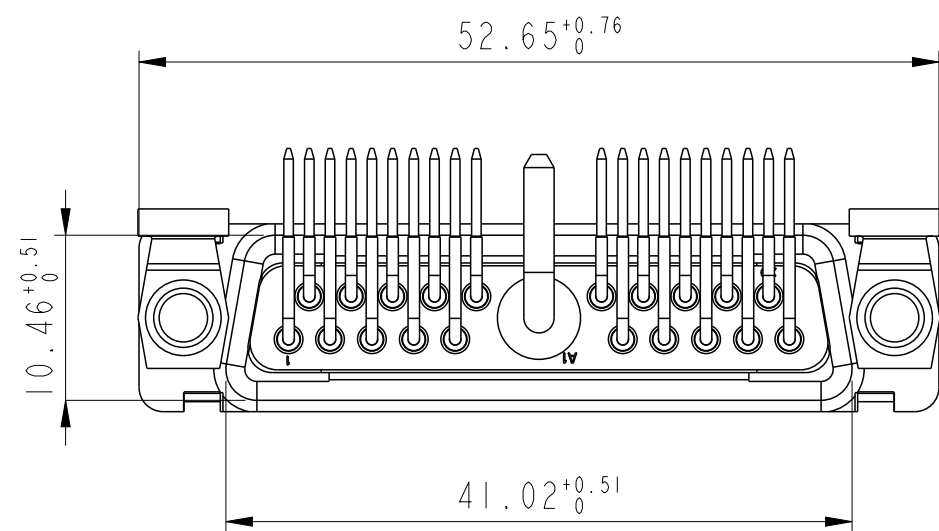
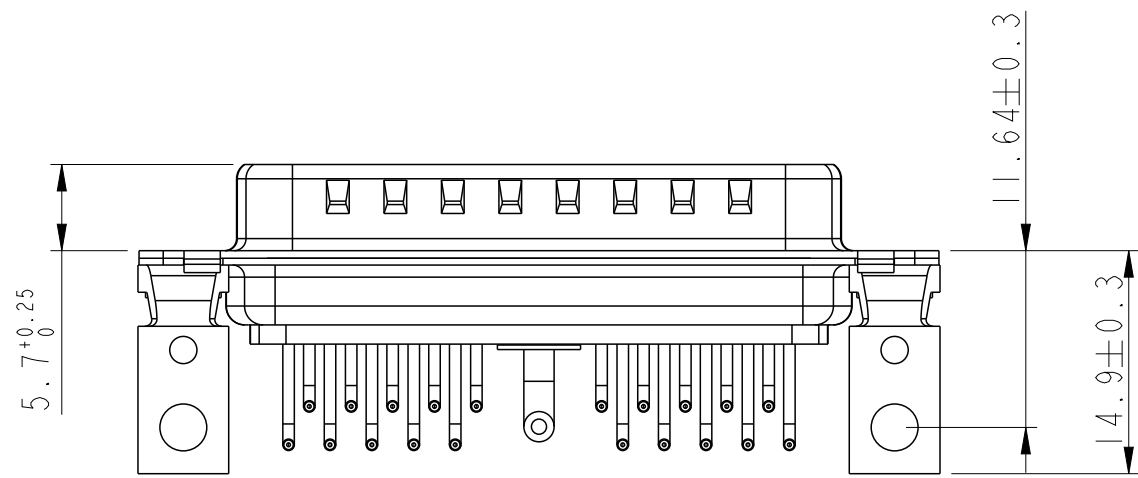
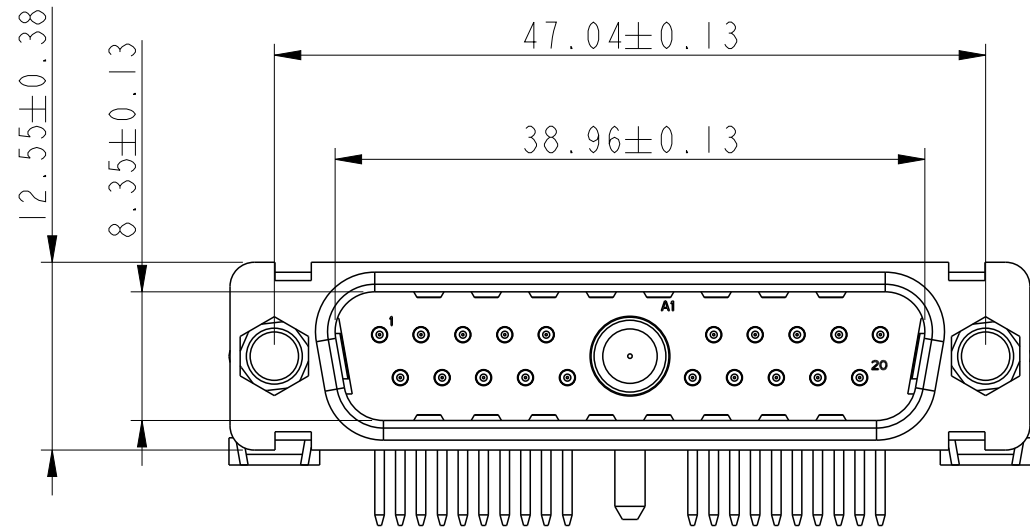
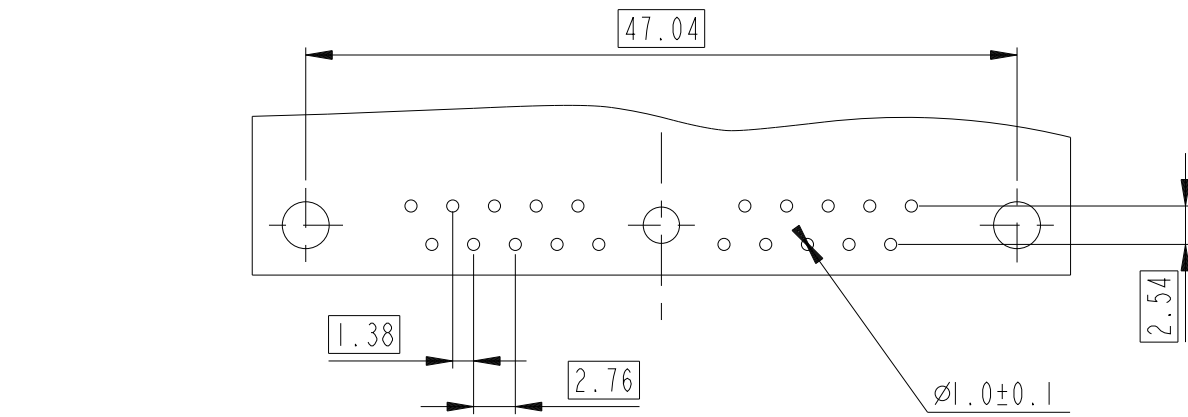


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ISO 406				appr		Varma Sudhir		2019/11/12						product family		D SUB -					
surface		linear		Amphenol FCI		title		SUB MALE DW EUROPE FOOT PRINT		MIXED POWER RIGHT ANGL SOLDER		dwg no		C01-8639-2304c		rev		E			
ISO 1302		0.X																		±0.30	
		0.XX																		±0.10	
		0.XXX		±0.005																	
		angular		0°		±°2															

21W1

LAYOUT AND CONNECTOR DIMENSIONS

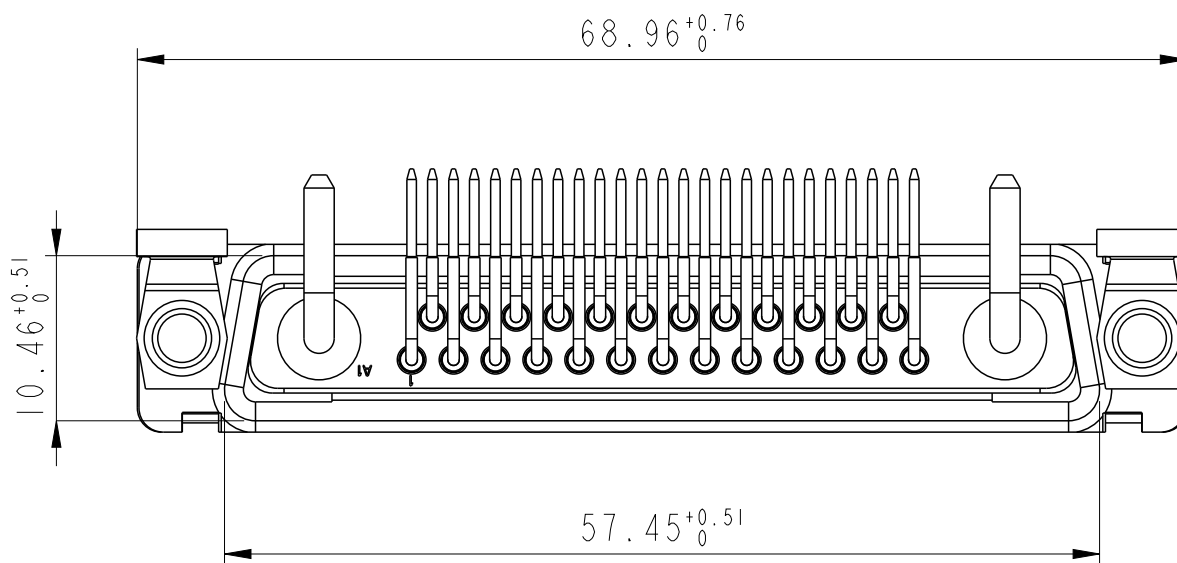
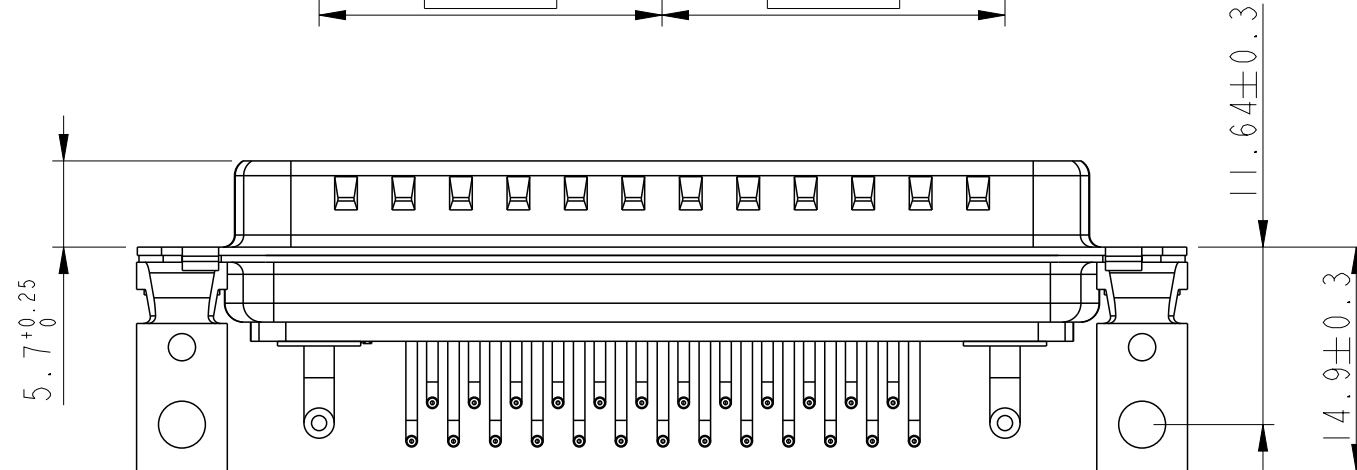
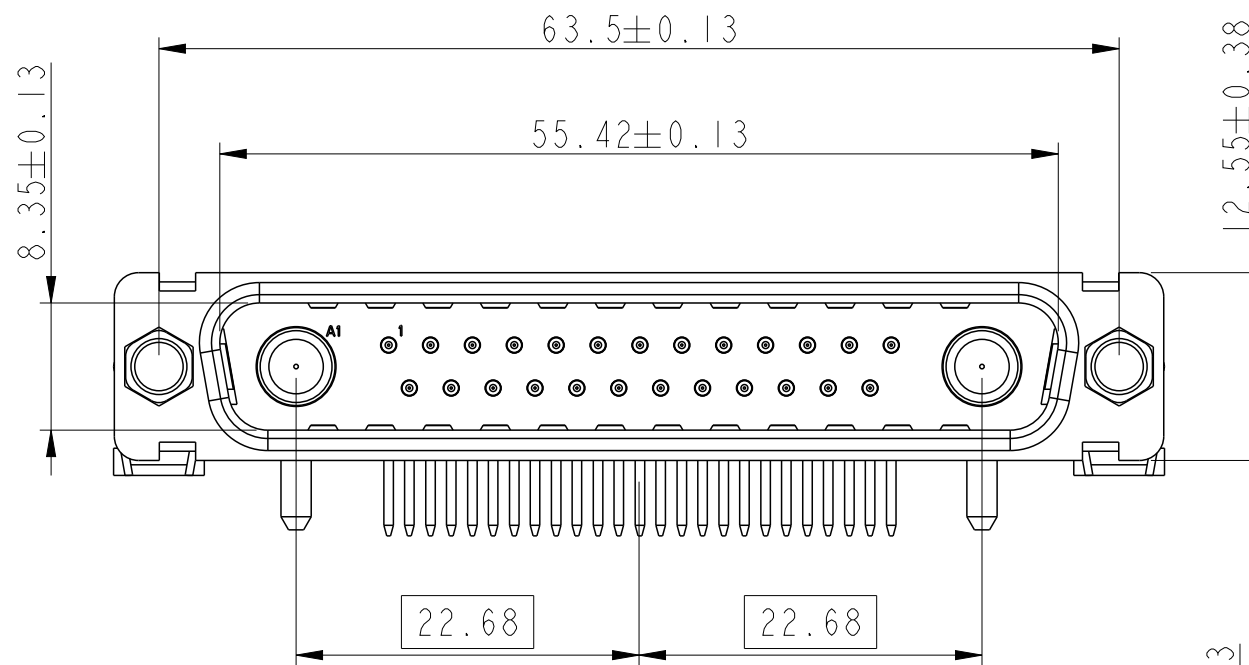
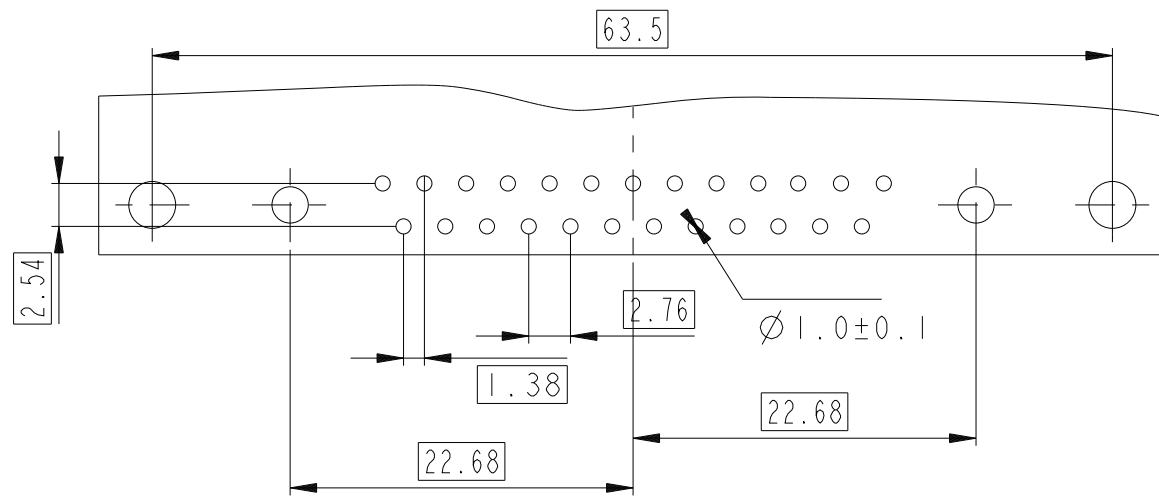
For PCB hole diameters see table I sheet I

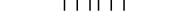


27W2

LAYOUT AND CONNECTOR DIMENSIONS

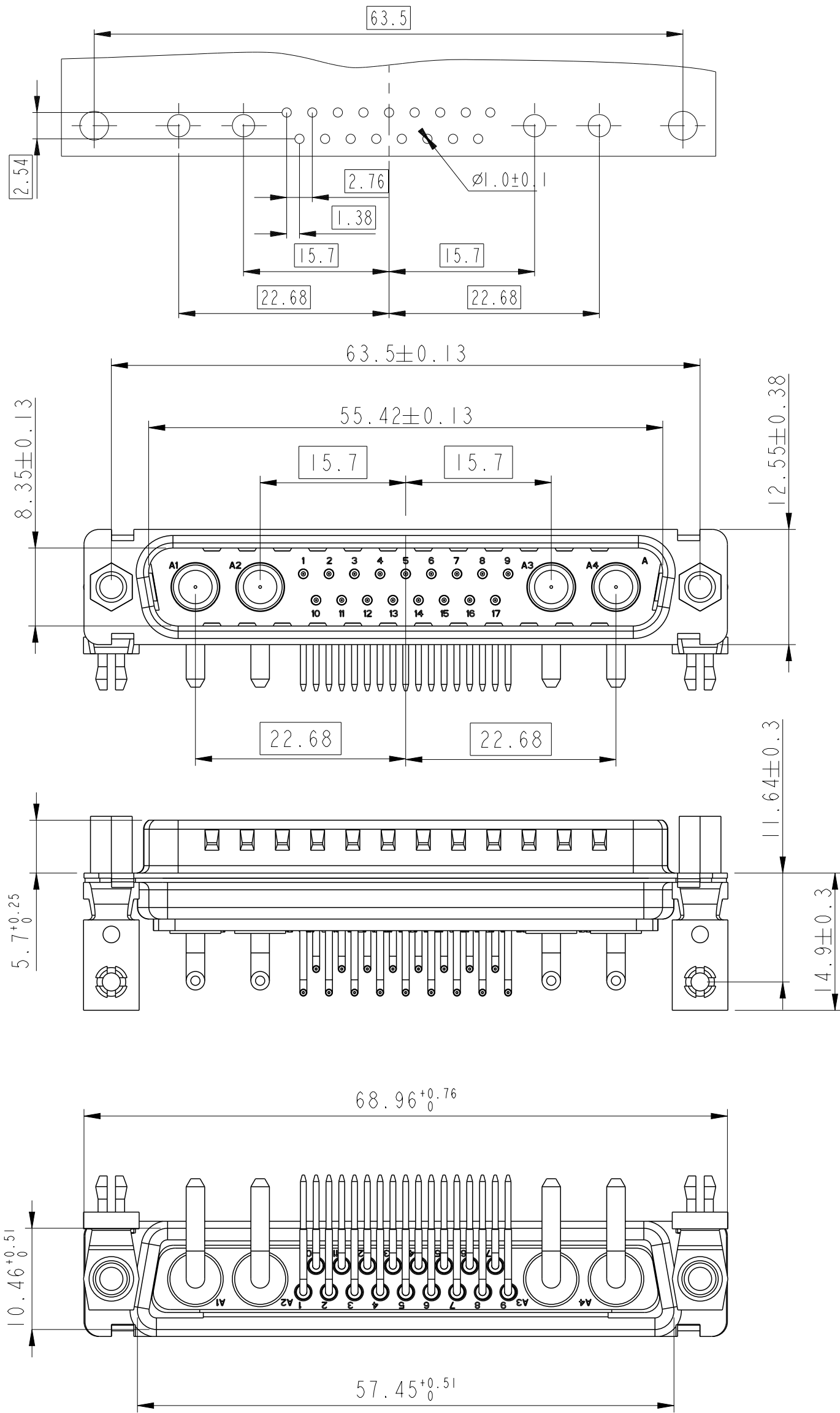
For PCB hole diameters see table I sheet I



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ISO 406				appr		Varma Sudhir		2019/11/12		product family													
surface		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			
ISO 1302		0.XX		±0.10		±0.005																	
		0.XXX		±0.005																			
		angular		0°		±2°				cat. no.		-		Product - Customer Drw				sheet 6 of 7					

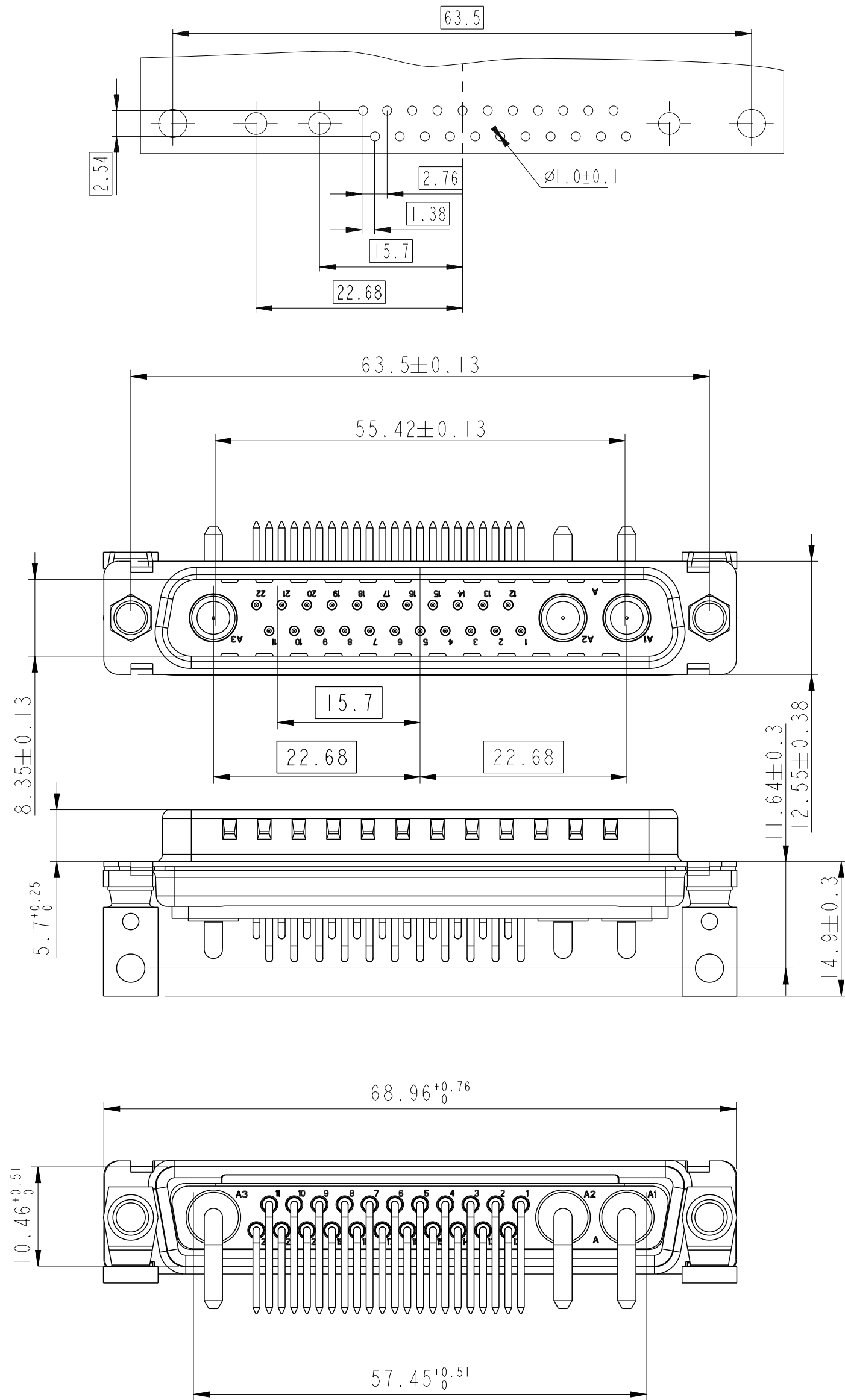
21WA4

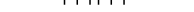
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



25W3

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



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ISO 1101 ISO 406		chr- apprVarma Sudhir2019/11/12									
TOLERANCES UNLESS OTHERWISE SPECIFIED				product family		-		rel levelReleased			
surface		linear	0.X±0.30	Amphenol FCi		titleSUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg noC01-8639-2304c		revE	
ISO 1302			0.XX±0.10								
			0.XXX±0.05								
		angular	0°±2°	cat. no.		-		Product - Customer Drw		sheet 7 of 7	