

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

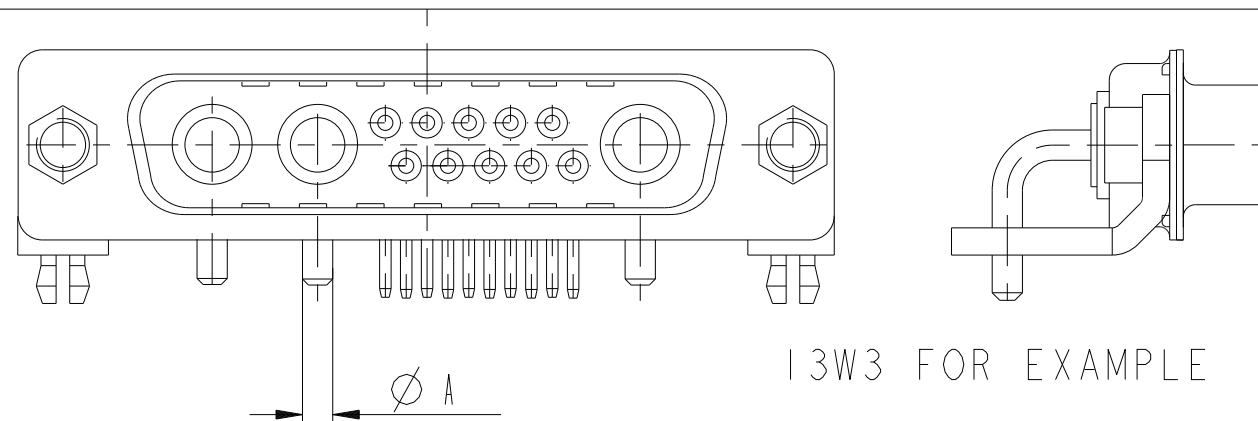
Power contacts
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

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



spec ref		dr1, Product Eng		2015/06/16		projection		sizeA2		scale1:1					
tolerance std		engGregar Mathew		2019/11/11				mm							
ISO 1101 ISO 406		chr-		-											
		apprVarma Sudhir		2019/11/12		product family		-		ecn noELX-1-33009-1					
										rel levelReleased					
surface ISO 1302		linear		0.X ±0.3 0.XX ±0.10.10 0.XXX ±0.05		Amphenol FCI		titleSUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg noC01-8639-2304c		revE			
		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															
		angular		0°														±°2	
		ISO 1302																	
				cat. no.		-		Product - Customer Drw					sheet 2 of 7						

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP500A30LF	30	200	without	without
D*LxWxP500A30LF	30	200	insert M3	without
D*OxWxP500A30LF	30	200	insert UNC 4.40	without
D*VxWxP500A30LF	30	200	female screw UNC 4.40	without
D*xWxP500H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M30LF	30	200	without	metal bracket
D*LxWxP500M30LF	30	200	insert M3	metal bracket
D*OxWxP500M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP500M30LF	30	200	female screw UNC 4.40	metal bracket

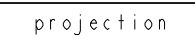
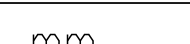
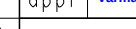
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D*xWxP500A40LF	40	200	without	without
D*LxWxP500A40LF	40	200	insert M3	without
D*OxWxP500A40LF	40	200	insert UNC 4.40	without
D*VxWxP500A40LF	40	200	female screw UNC 4.40	without
D*xWxP500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G40LF	40	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M40LF	40	200	without	metal bracket
D*LxWxP500M40LF	40	200	insert M3	metal bracket
D*OxWxP500M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP500M40LF	40	200	female screw UNC 4.40	metal bracket

shell size
*
E
A
A
B
B
B
C
C
C

LAYOUTS
xWx
5W1
11W1
7W2
21W1
17W2
13W3
9W4
25W3
21WA4
27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP543A30LF	30	500	without	without
D*LxWxP543A30LF	30	500	insert M3	without
D*OxWxP543A30LF	30	500	insert UNC 4.40	without
D*VxWxP543A30LF	30	500	female screw UNC 4.40	without
D*xWxP543H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP543M30LF	30	500	without	metal bracket
D*LxWxP543M30LF	30	500	insert M3	metal bracket
D*OxWxP543M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP543M30LF	30	500	female screw UNC 4.40	metal bracket

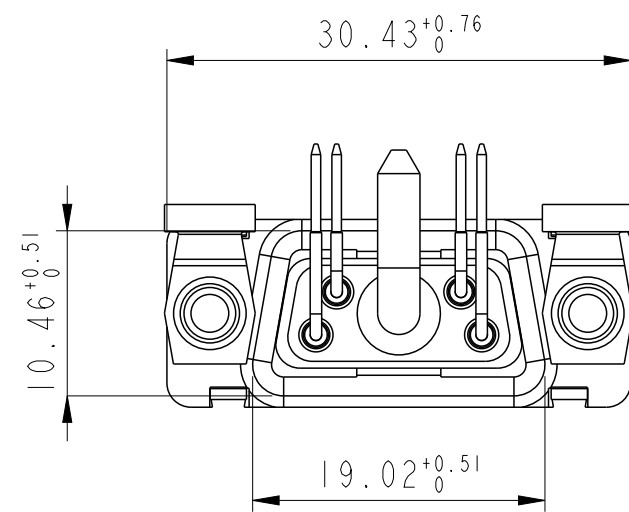
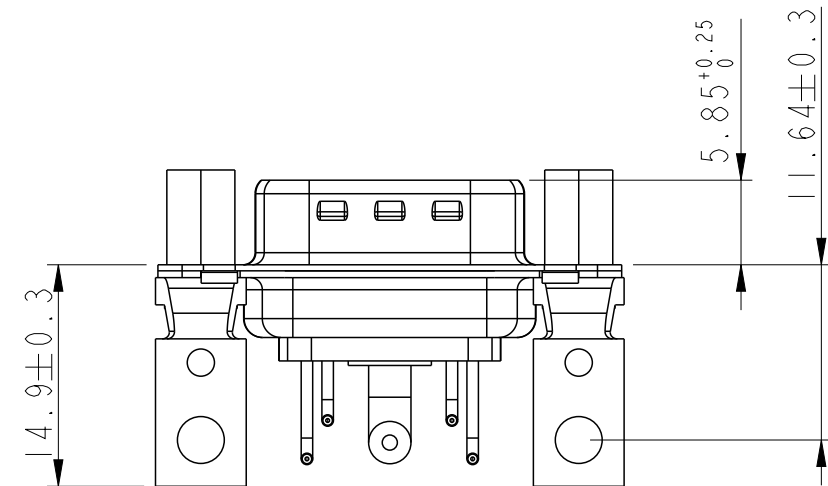
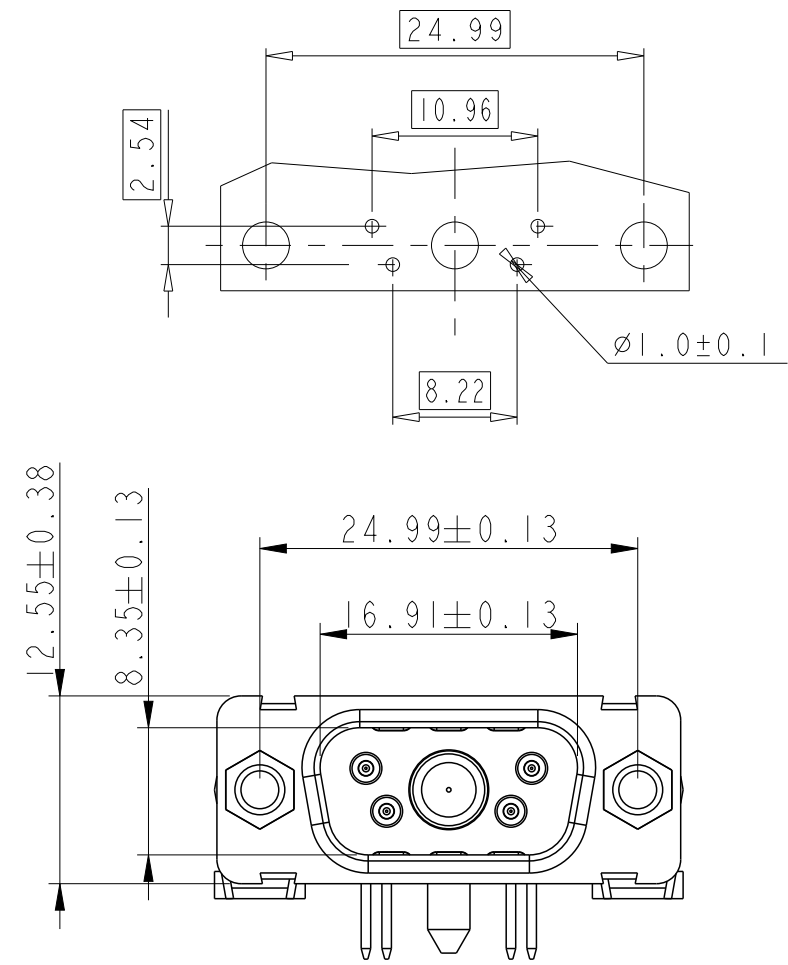
PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
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D*LxWxP543A40LF	40	500	insert M3	without
D*OxWxP543A40LF	40	500	insert UNC 4.40	without
D*VxWxP543A40LF	40	500	female screw UNC 4.40	without
D*xWxP543H40LF	40	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H40LF	40	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G40LF	40	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G40LF	40	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP543M40LF	40	500	without	metal bracket
D*LxWxP543M40LF	40	500	insert M3	metal bracket
D*OxWxP543M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP543M40LF	40	500	female screw UNC 4.40	metal bracket

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

5W1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

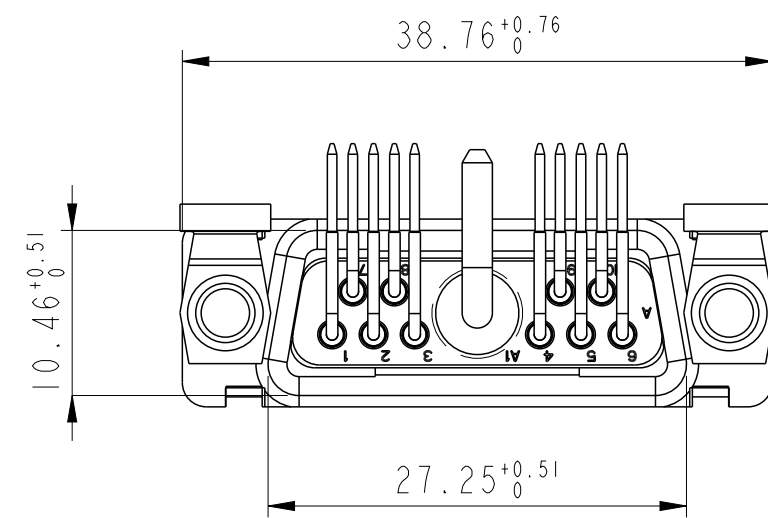
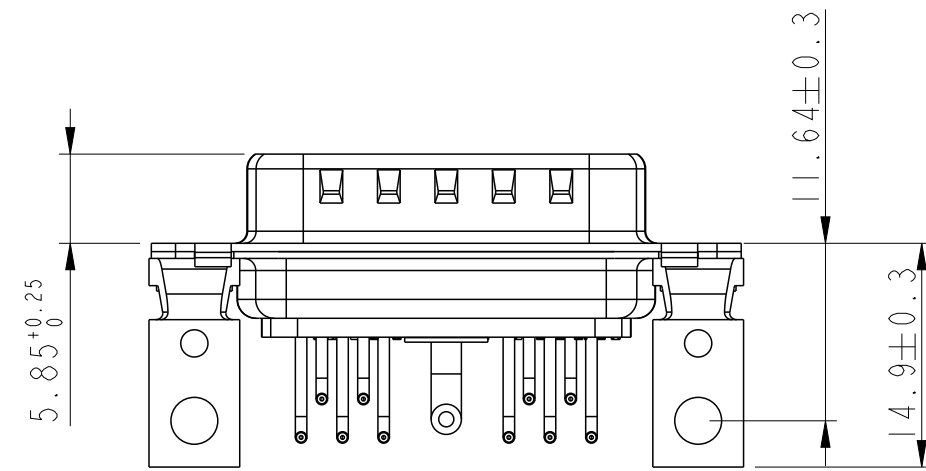
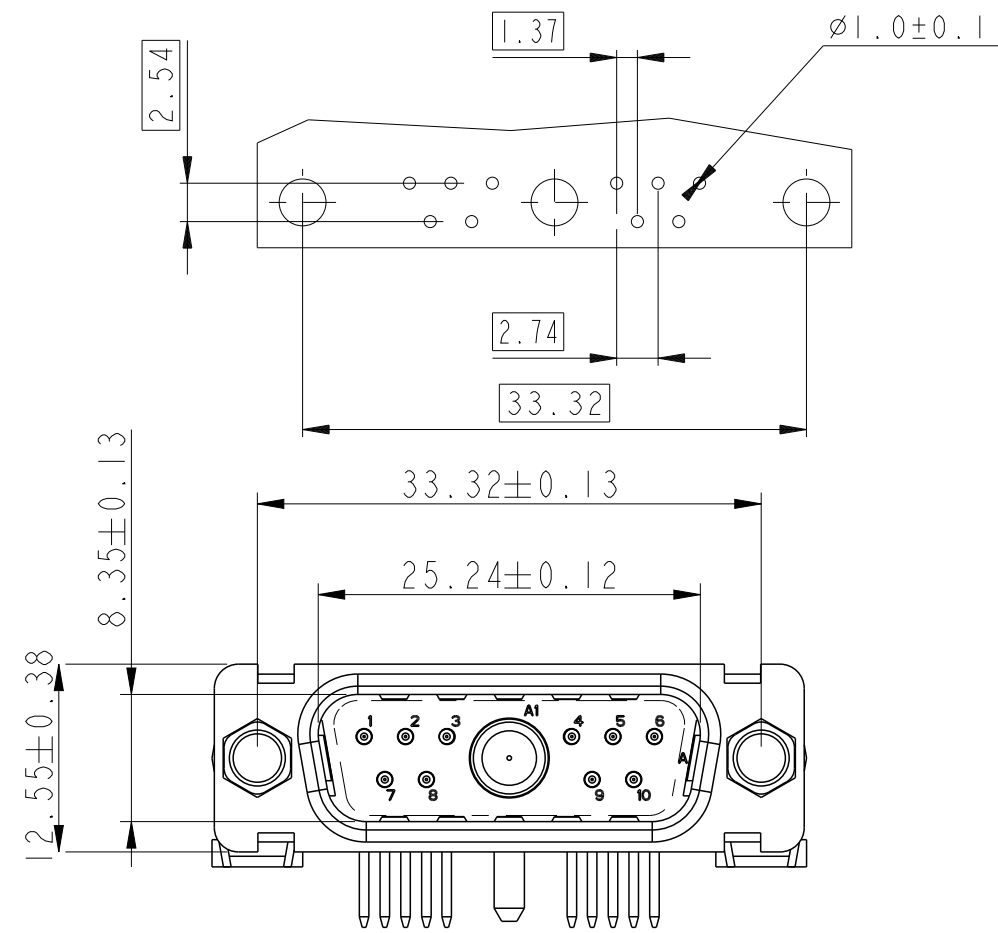


Floating signal contacts

11W1

LAYOUT AND CONNECTOR DIMENSIONS

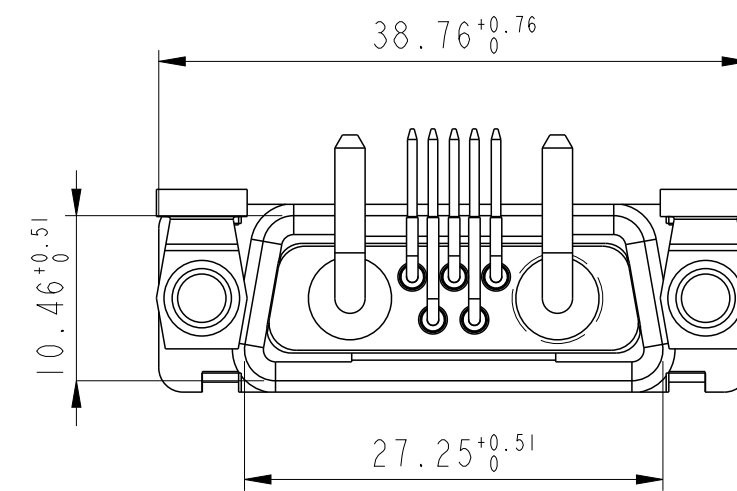
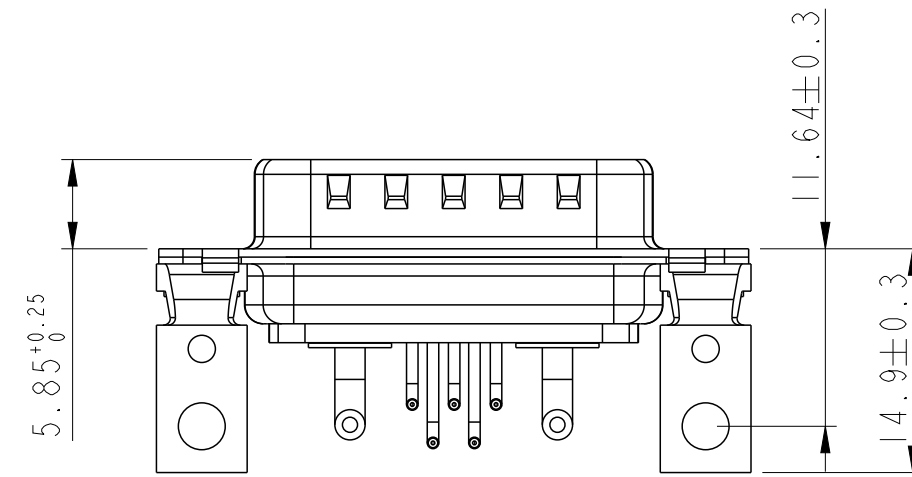
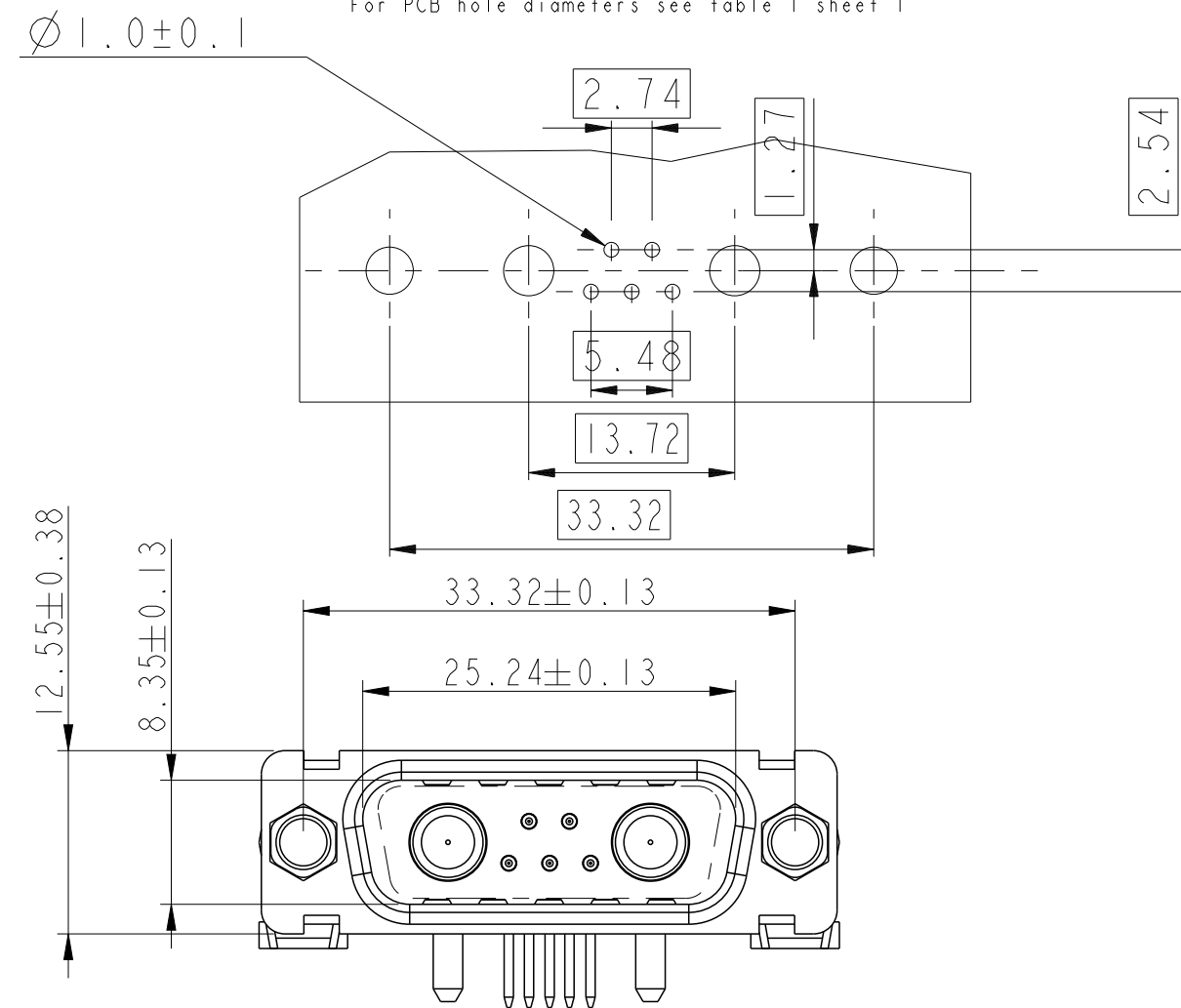
For PCB hole diameters see table I sheet I



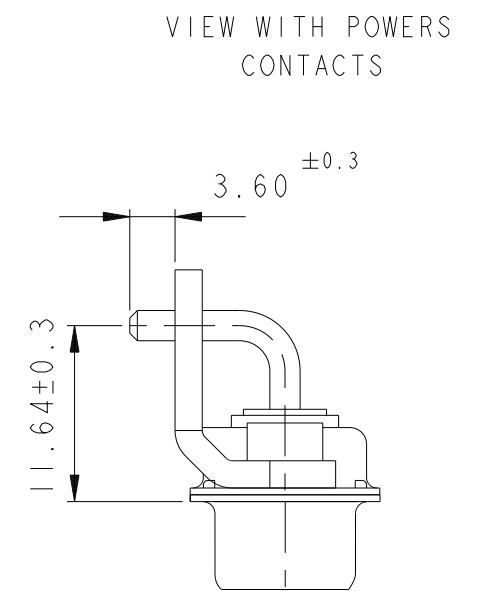
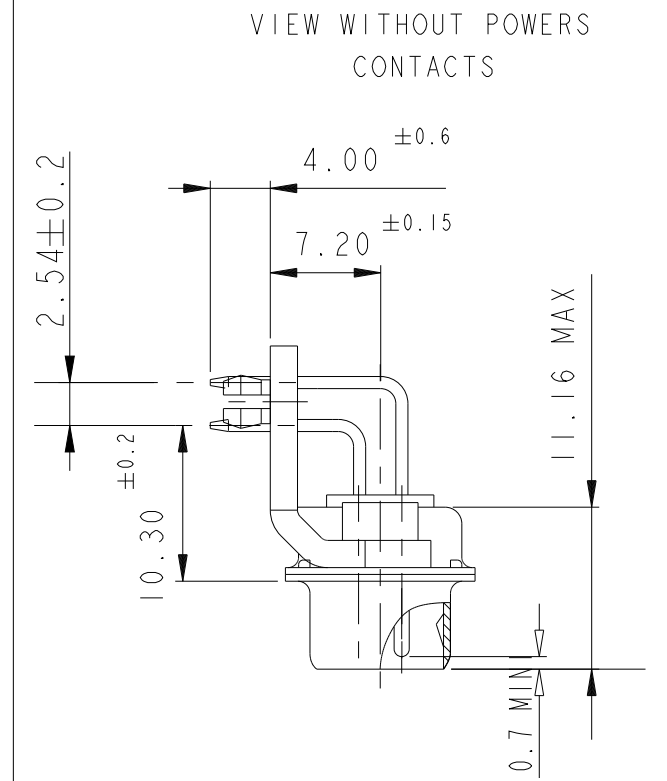
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



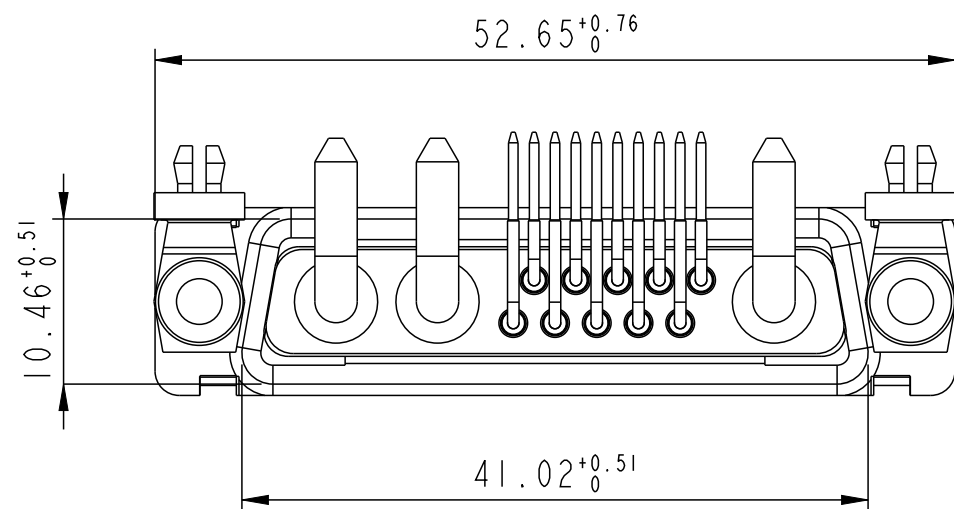
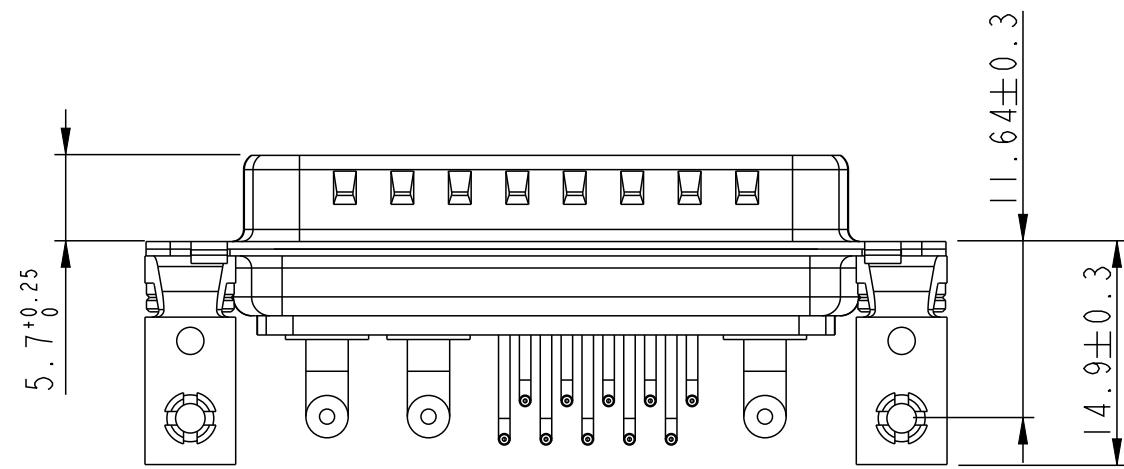
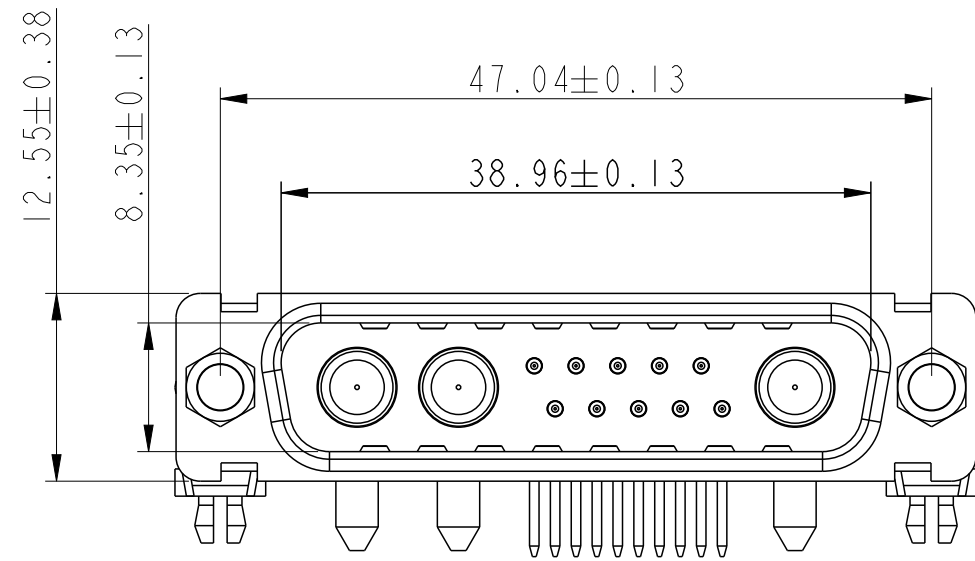
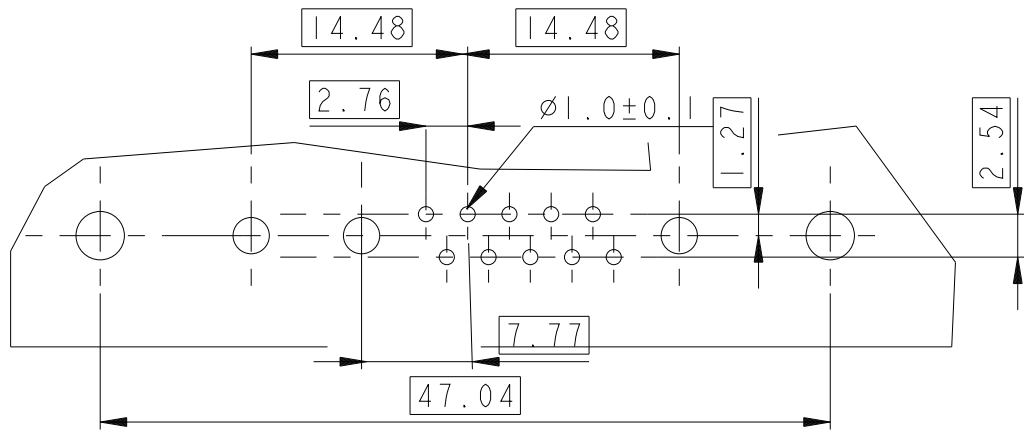
SIDE VIEW FOR ALL LAYOUTS



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tolerance std		eng		Gregar Mathew		2019/11/11						ecn no		ELX-133009-1		rel level		Released							
ISO 1101		chr		-		-																			
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		E					
																						0.xx		±0.10	
																						0.xxx		±0.05	
ISO 1302		angular		0°		±0.2		cat. no.		-		Product - Customer Drw		sheet 4 of 7											
TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED							
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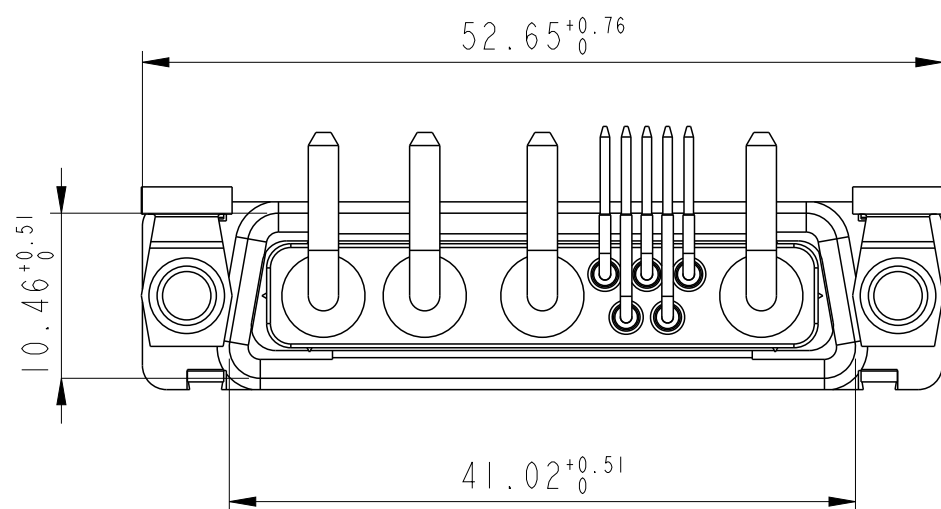
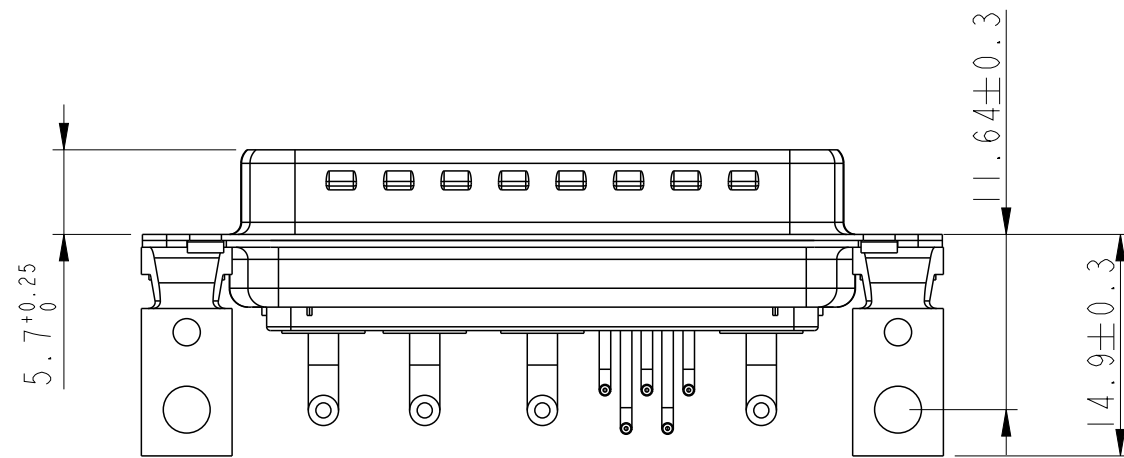
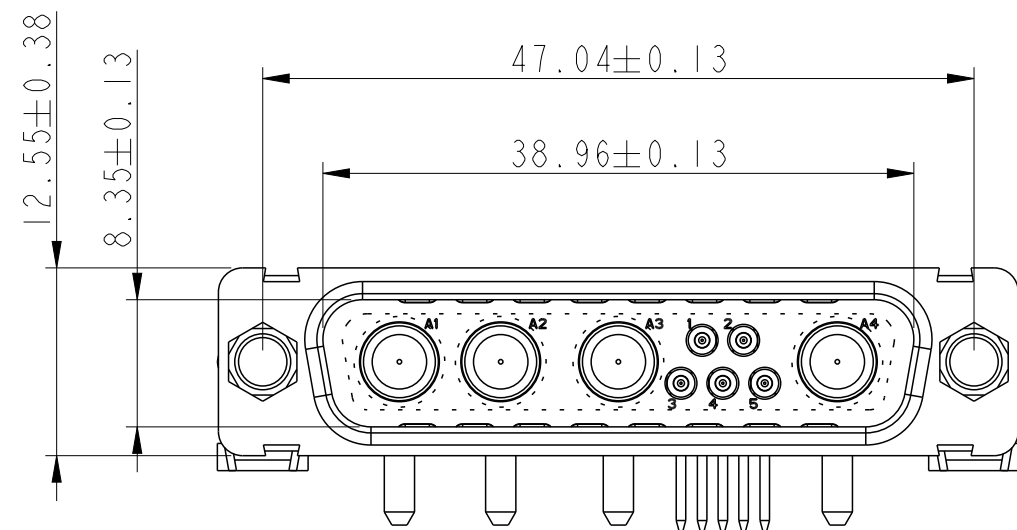
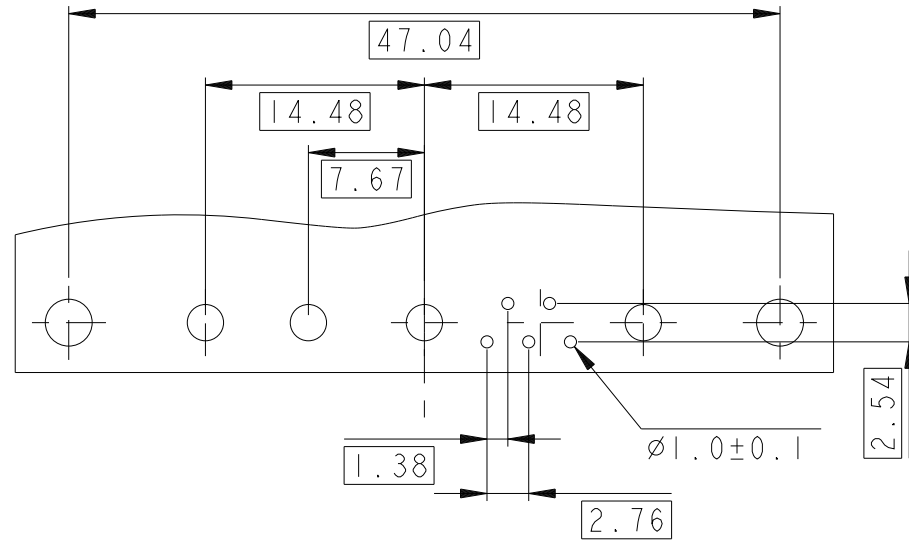
13W3

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



9W4

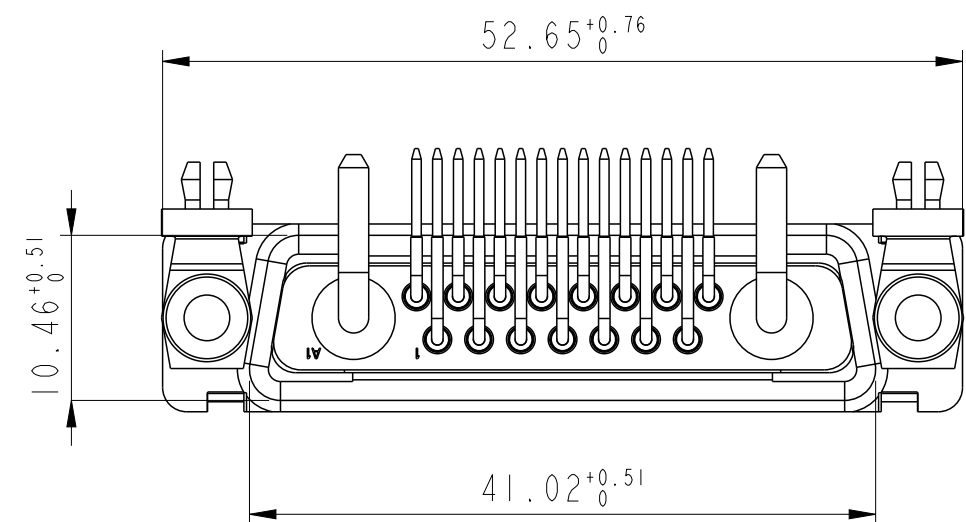
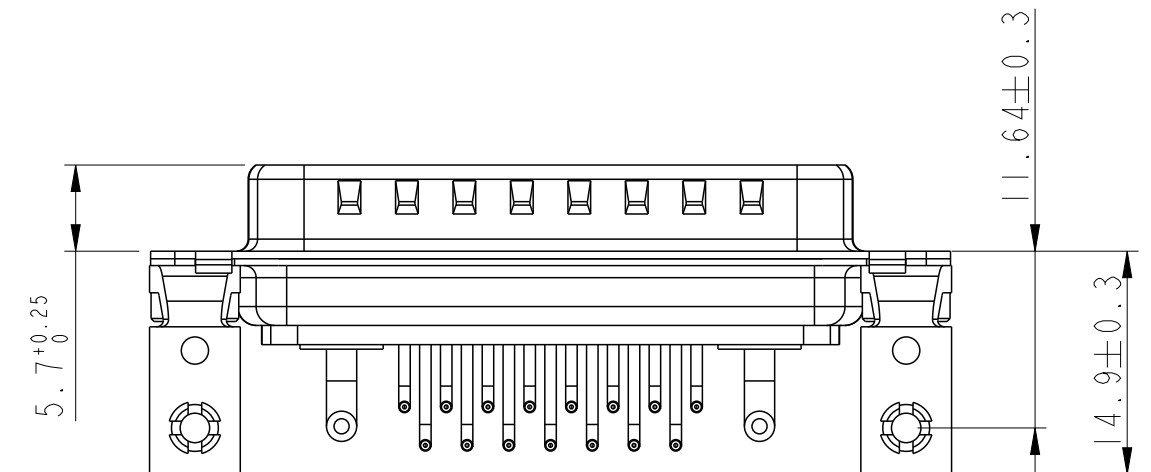
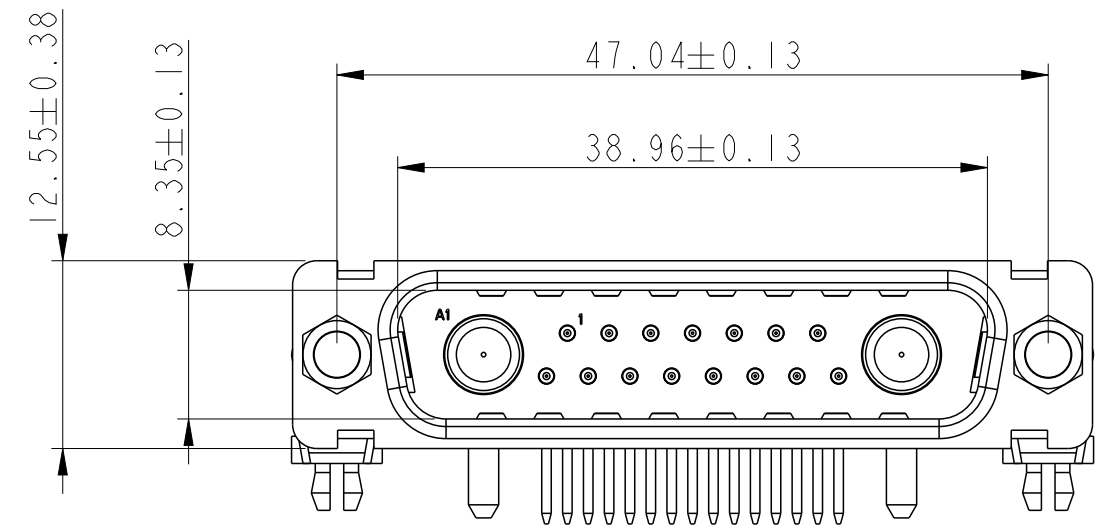
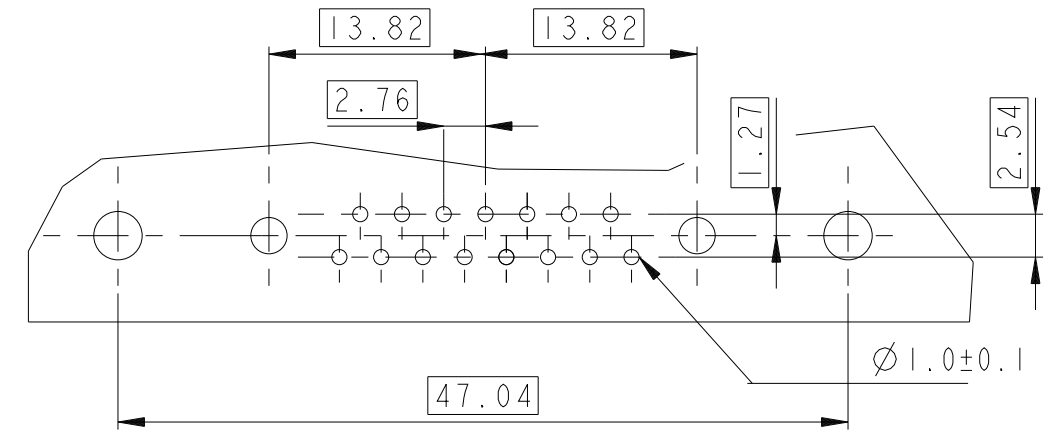
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

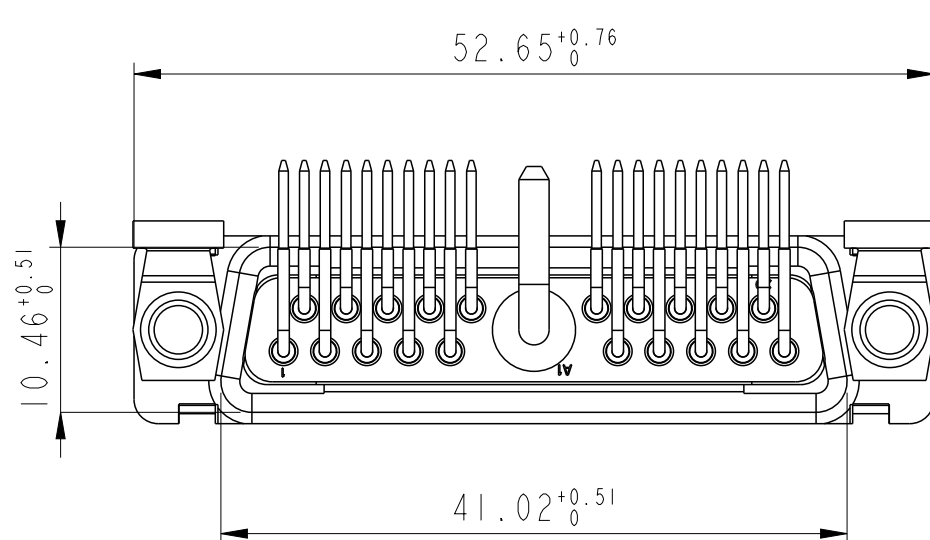
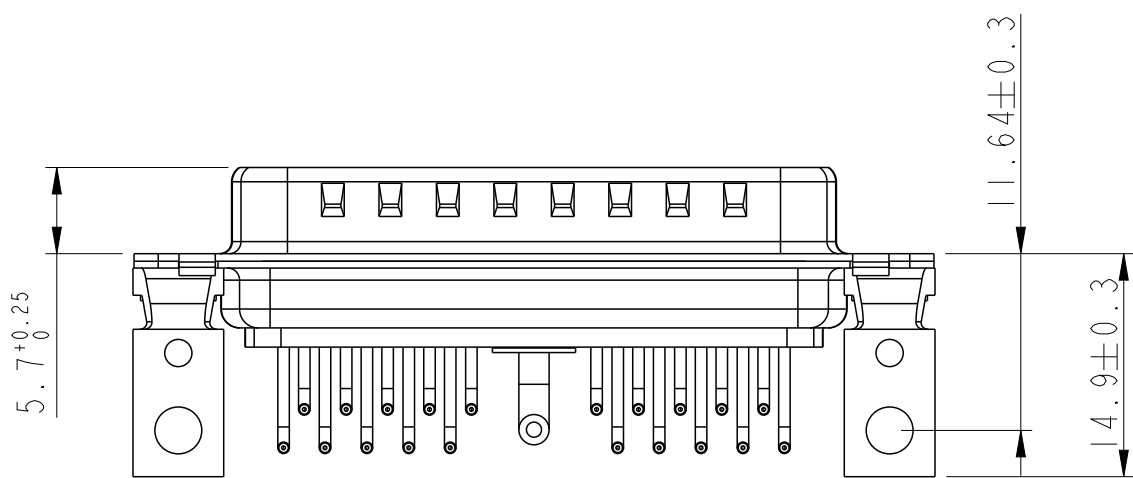
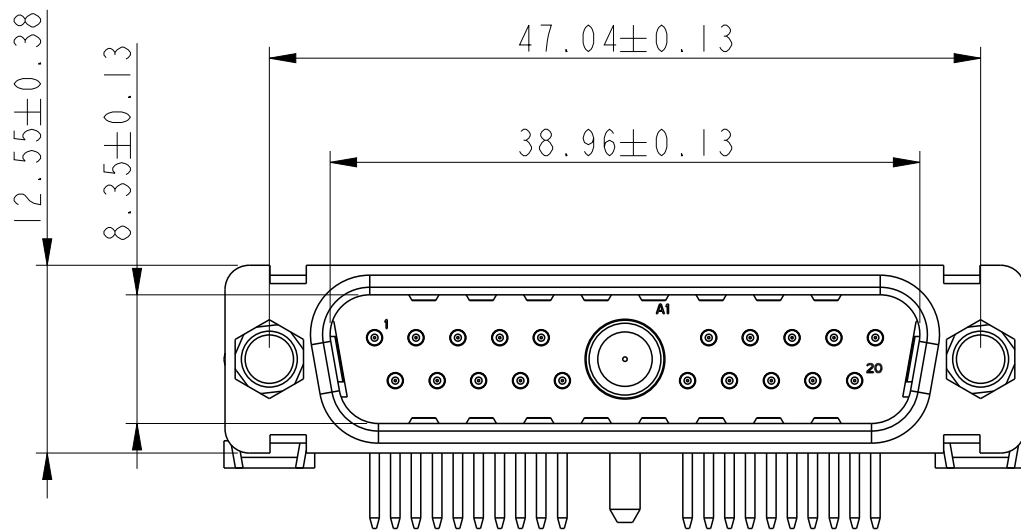
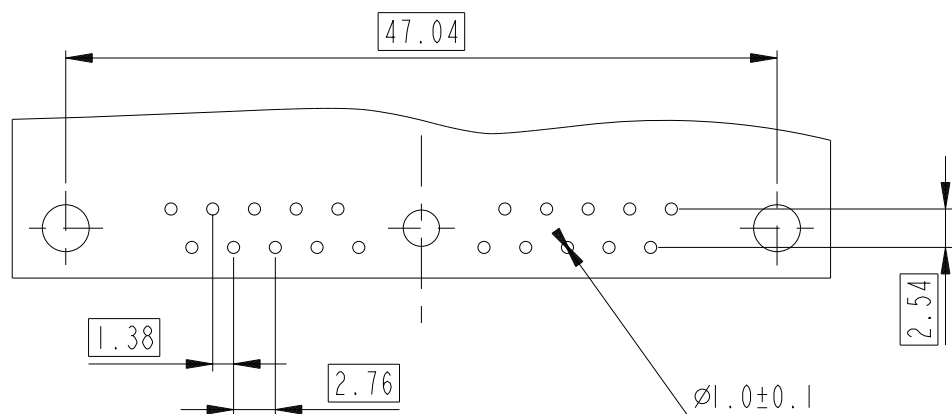
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Gregar Mathew		2019/11/11						ecn no		ELX-133009-1		rel level		Released			
ISO 1101				chr		-		-															
ISO 406				appr		Varma Sudhir		2019/11/12														product family	
surface		linear		Amphenol FCi		title		SUB MALE DW EUROPE FOOT PRINT		dwg no		C01-8639-2304c		rev		E							
ISO 1302		0.X																±0.30					
		0.XX																±0.10					
		0.XXX		±0.005																			
		angular																					
		0°		±2°																			

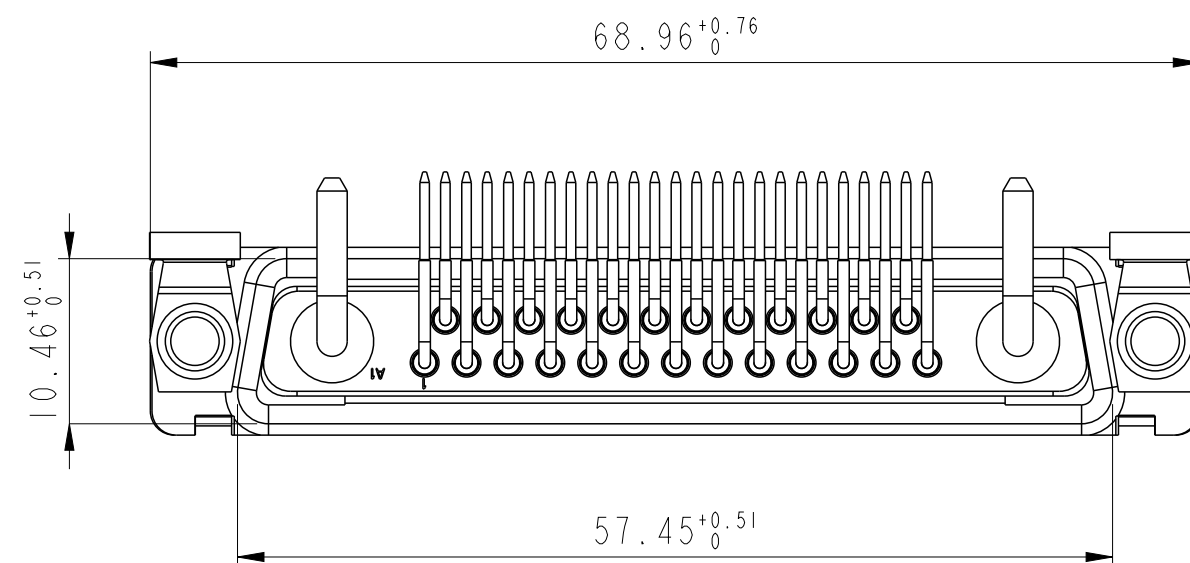
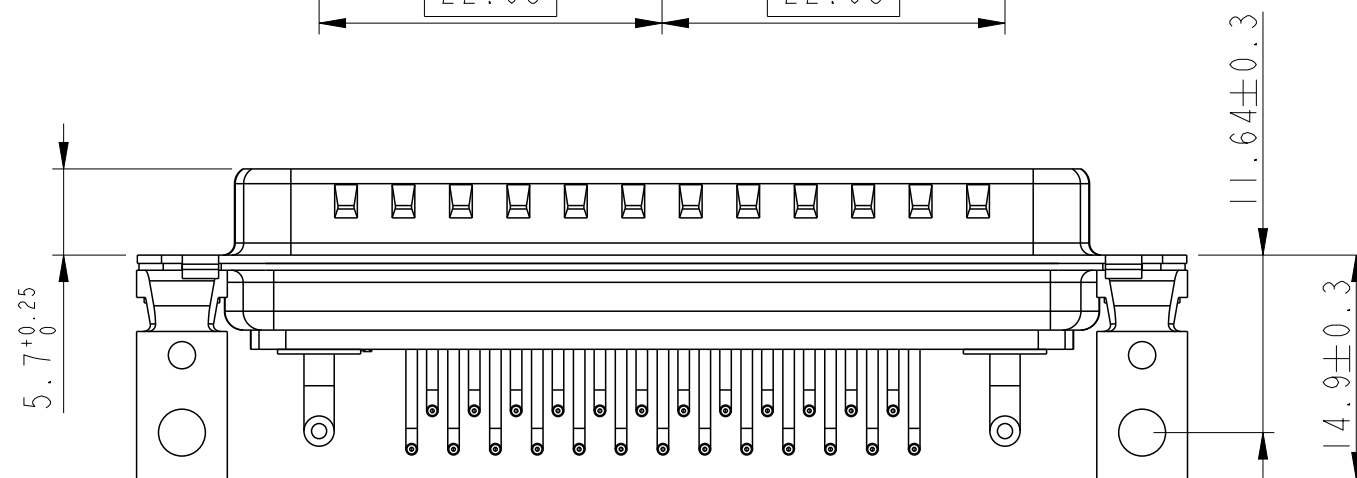
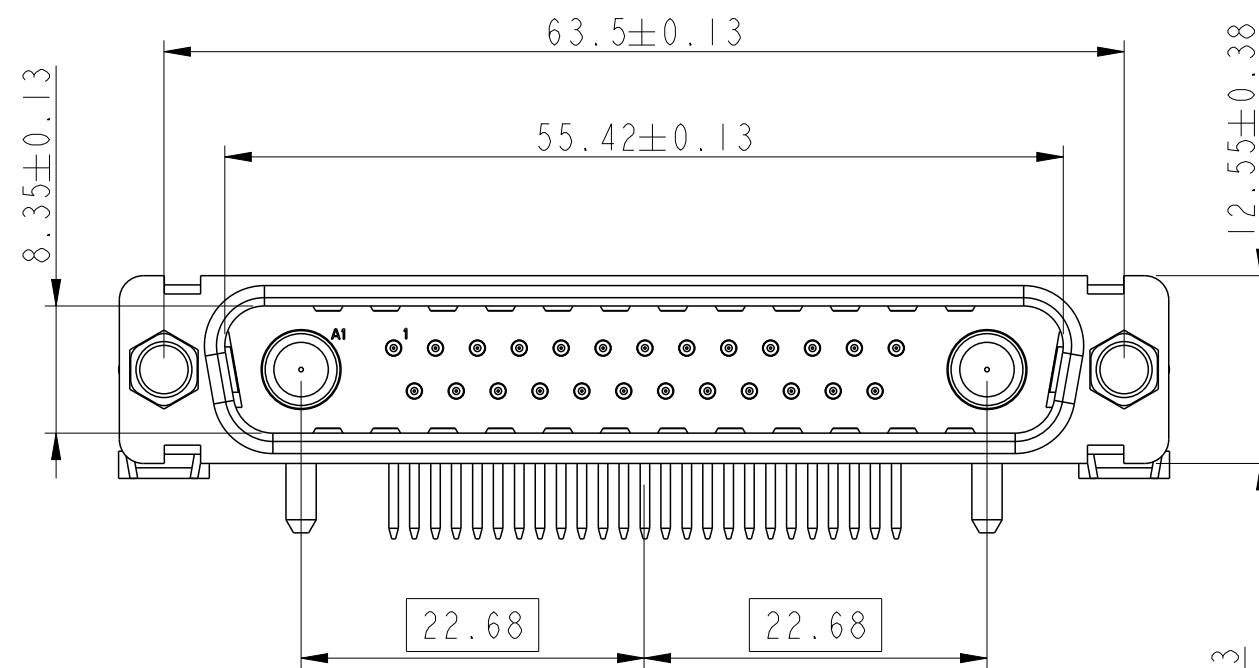
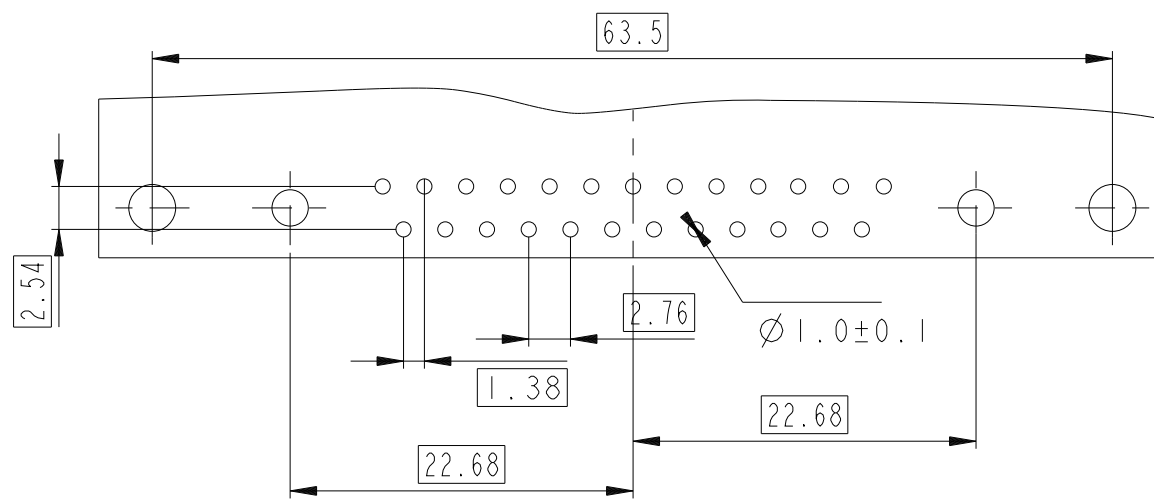
21W1

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



27W2

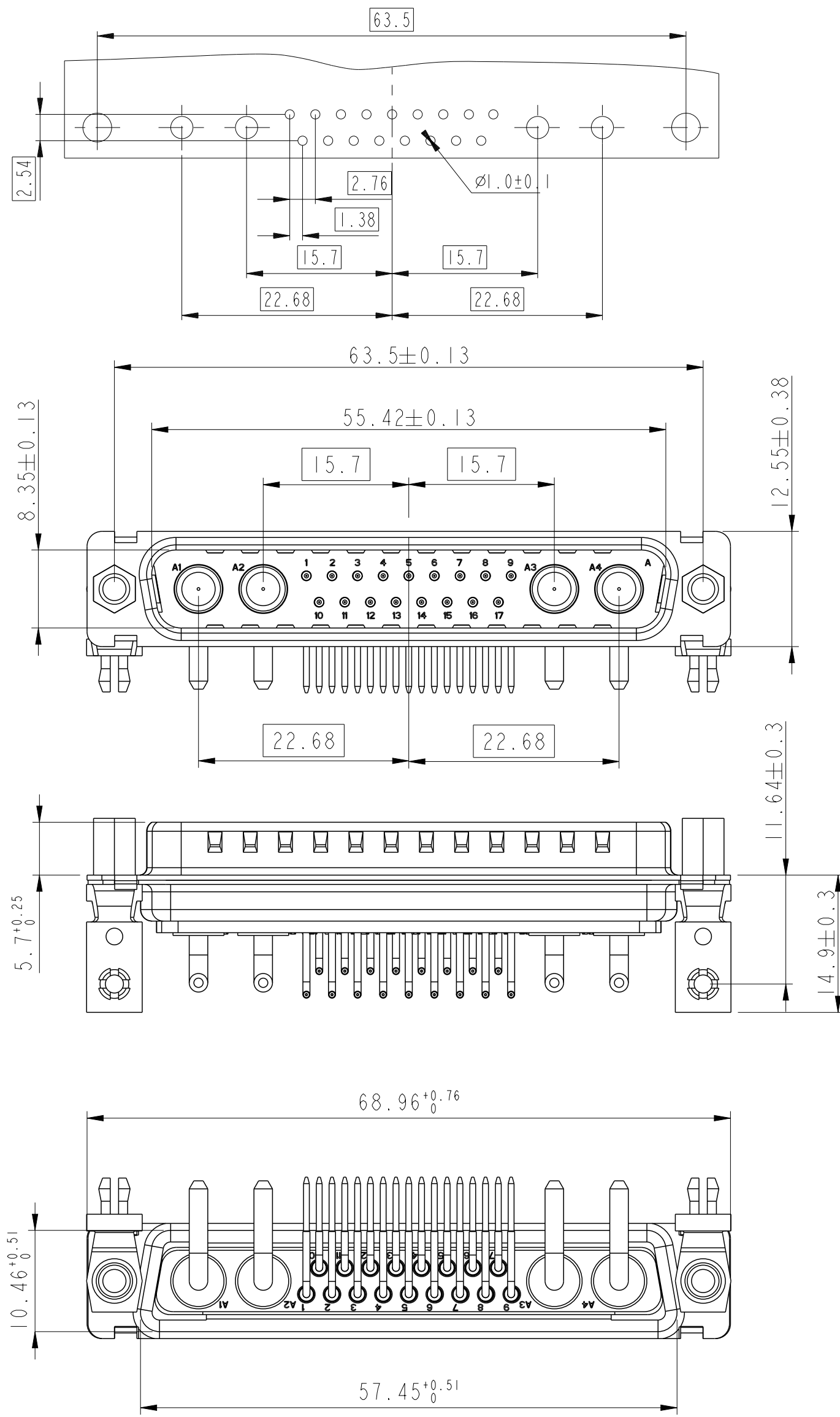
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



spec ref				dr 1, Product Eng		2015/06/16		projection		mm		size A2		scale 2:1									
tolerance std				eng Gregar Mathew		2019/11/11						ecn no		ELX-133009-1									
ISO 1101				chr -		-																	
ISO 406				appr Varma Sudhir		2019/11/12																	
								product family				D SUB-											
												rel level Released											
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	
		0.XX		±0.10																			
		0.XXX		±0.005																			
		angular 0°		±2°																			
ISO 1302																							
cat. no.				-				Product - Customer Drw				sheet 6 of 7											

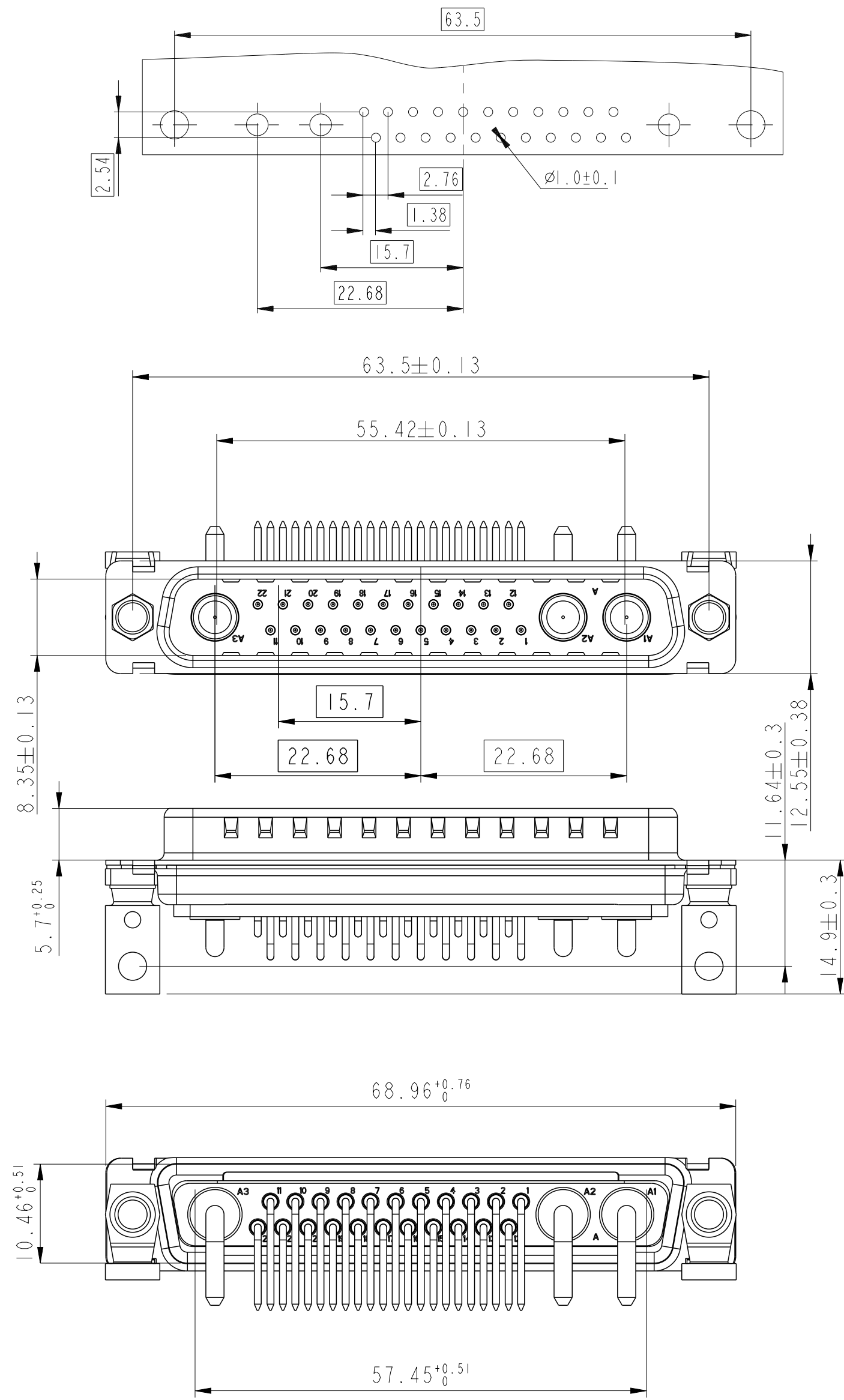
21WA4

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



spec ref		dr		1, Product Eng		2015/06/16		projection		mm		size		A2		scale		2:1			
tolerance std		eng		Gregar Mathew		2019/11/11						ecn no		ELX-133009-1							
ISO 1101 ISO 406		chr		-		-						rel level		Released							
ISO 406		appr		Varma Sudhir		2019/11/12		product family		-		rel level		Released							
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		angular		0°		±2°															
ISO 1302		angular		0°		±2°															
ISO 1302		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 7 of 7							