

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

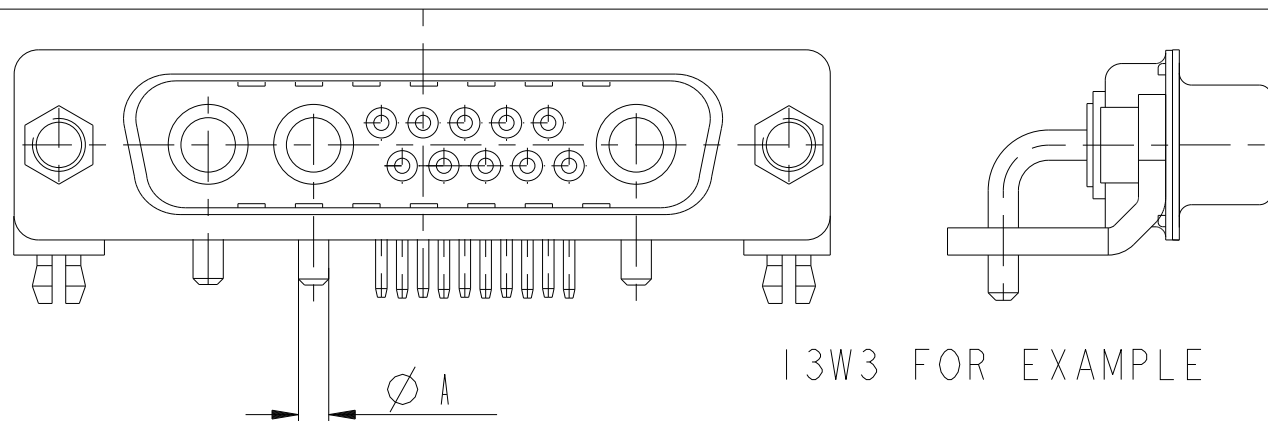
Plating
00 200 matings/unmatings
43 500 matings/unmatings

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

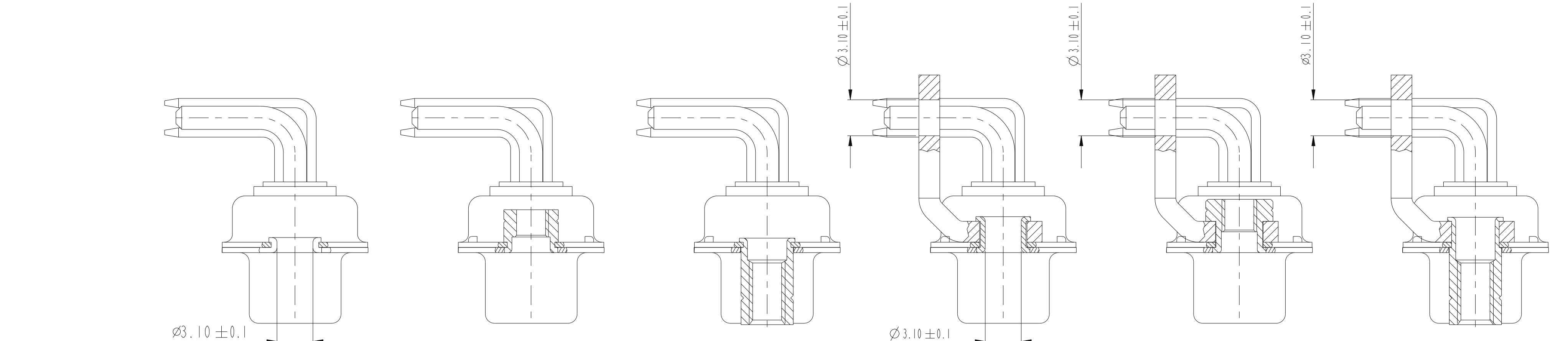
Power contacts
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

TABLE 1:PCB HOLE DIAMETERS

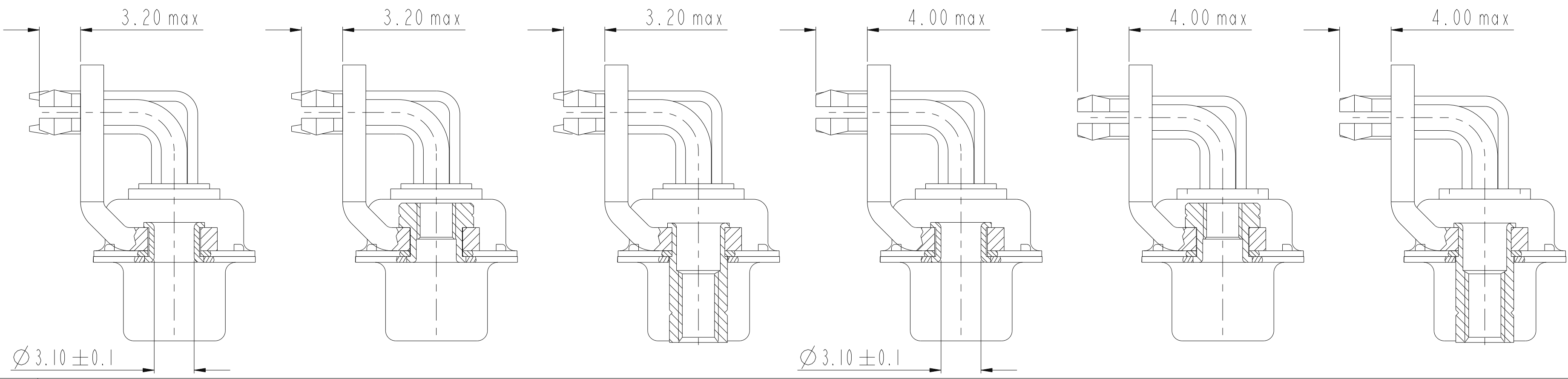
POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø2.40	Ø3.10	Ø1.00
40 A	2.80	Ø3.10		
Max current Power	ØA±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10	PCB HOLE ±0.10



spec ref			dr1, Product Eng		2015/06/16		projection		mm		sizeA2		scale1:1		
tolerance std			engGregar Mathew		2019/11/11						ecn noELX-1-33009-1		rel levelReleased		
ISO 1101 ISO 406			TOLERANCES UNLESS OTHERWISE SPECIFIED		chr-										
			apprVarma Sudhir		2019/11/12		product family				-				
surface ISO 1302		linear		0.X ±0.3 0.XX ±0.10.10 0.XXX ±0.05		Amphenol FCI		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER				dwg noC01-8639-2304c		revE	
		angular0°		±2°		cat. no.		-		Product - Customer Drw				sheet 1 of 7	



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



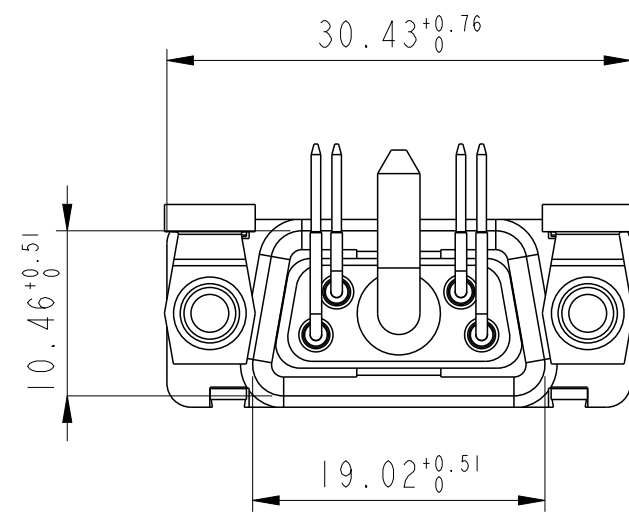
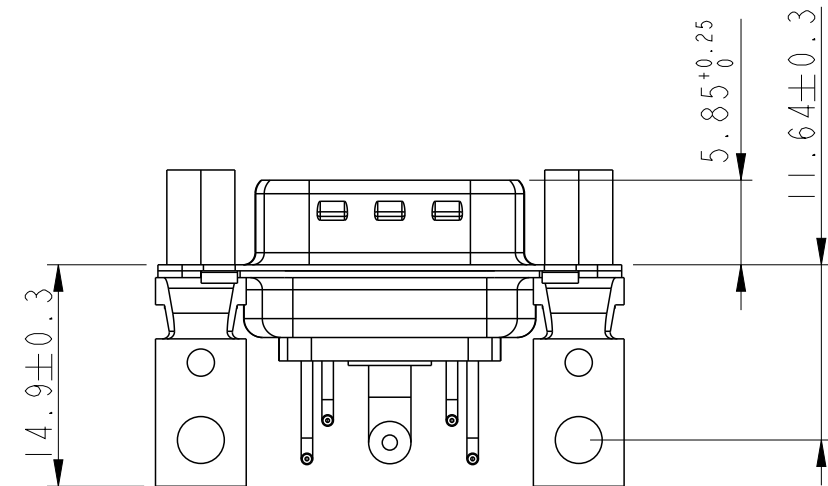
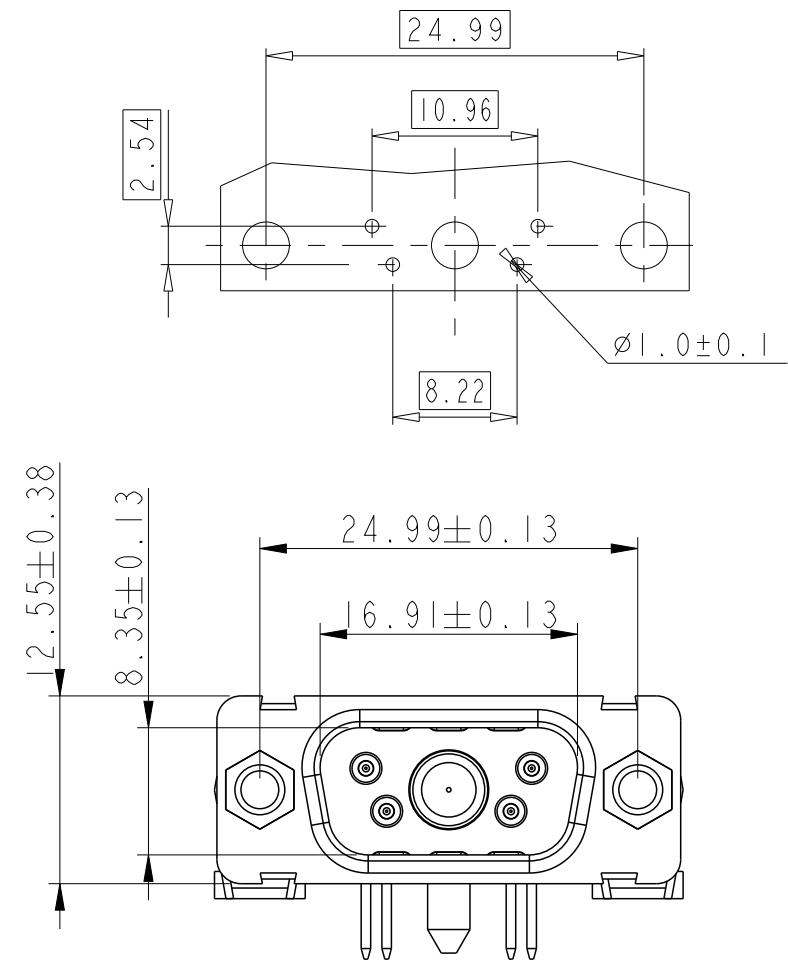
FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	H Metal brackets + 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		-		-						rel level		Released															
ISO 1101			appr		Varma Sudhir		2019/11/12		product family												-									
ISO 406																														
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°																						

5W1

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

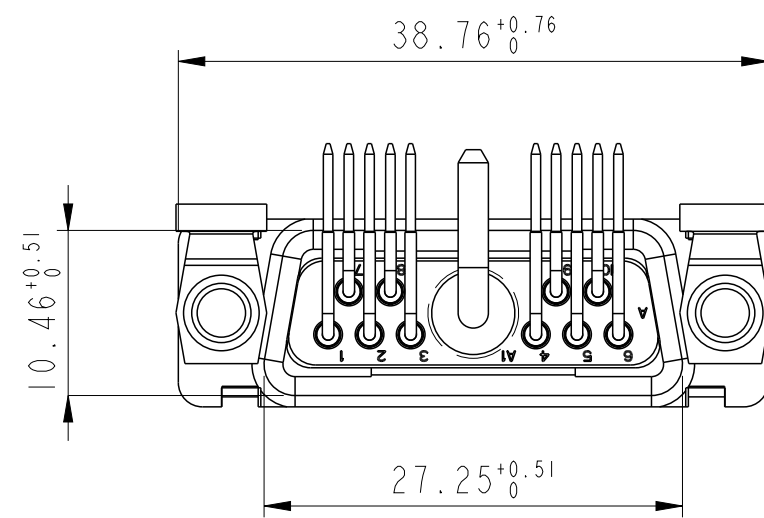
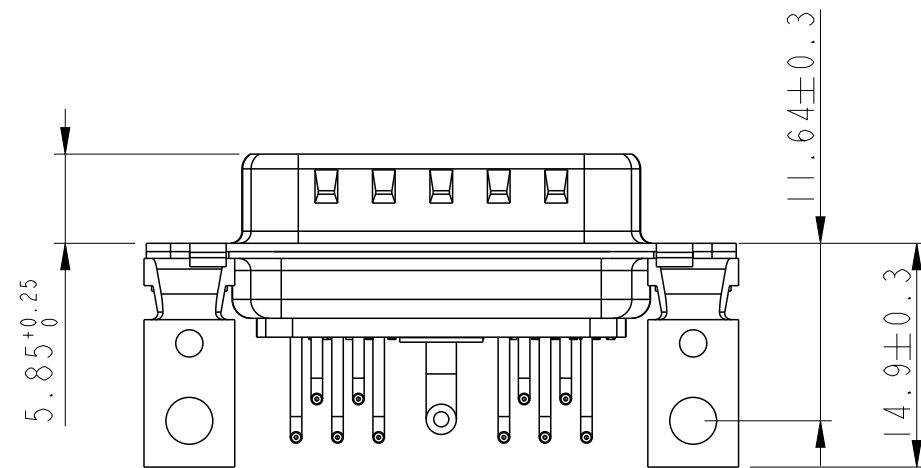
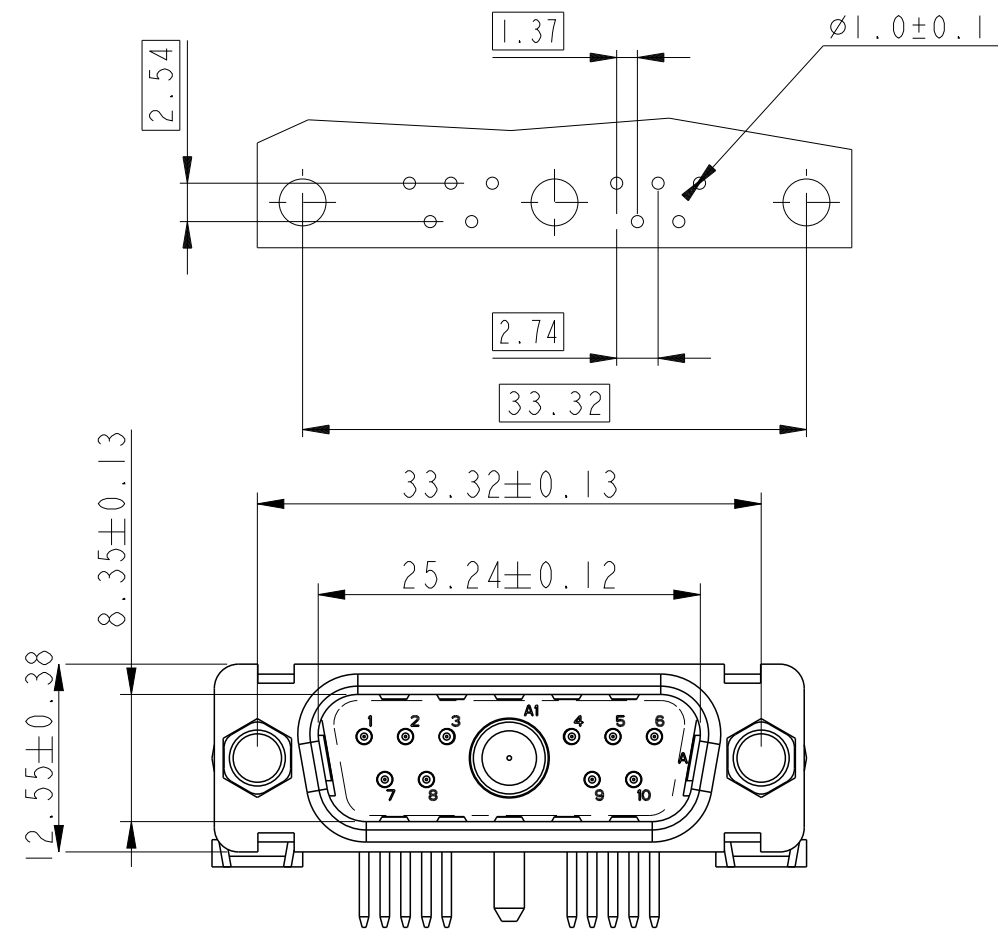


Floating signal contacts

11W1

LAYOUT AND CONNECTOR DIMENSIONS

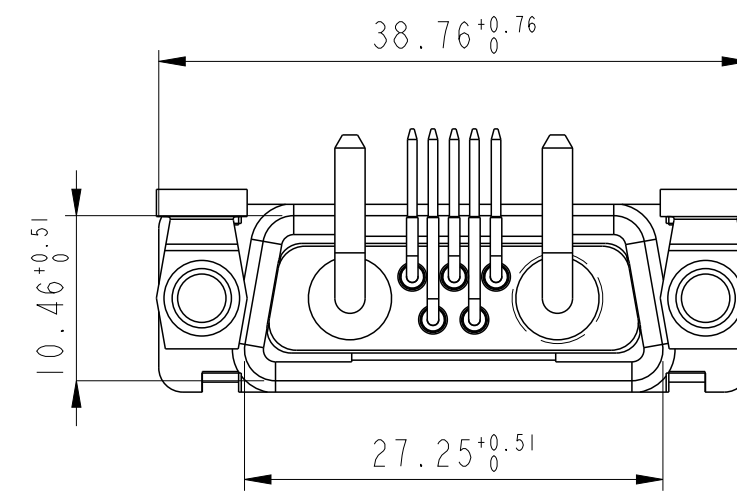
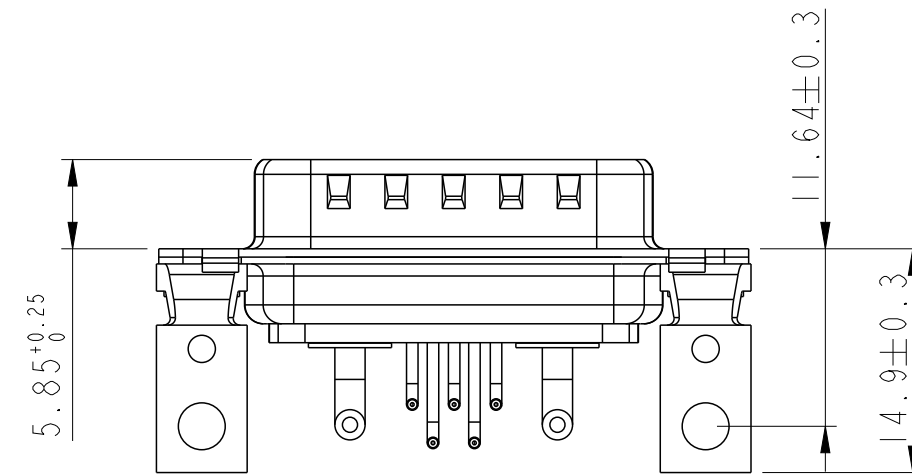
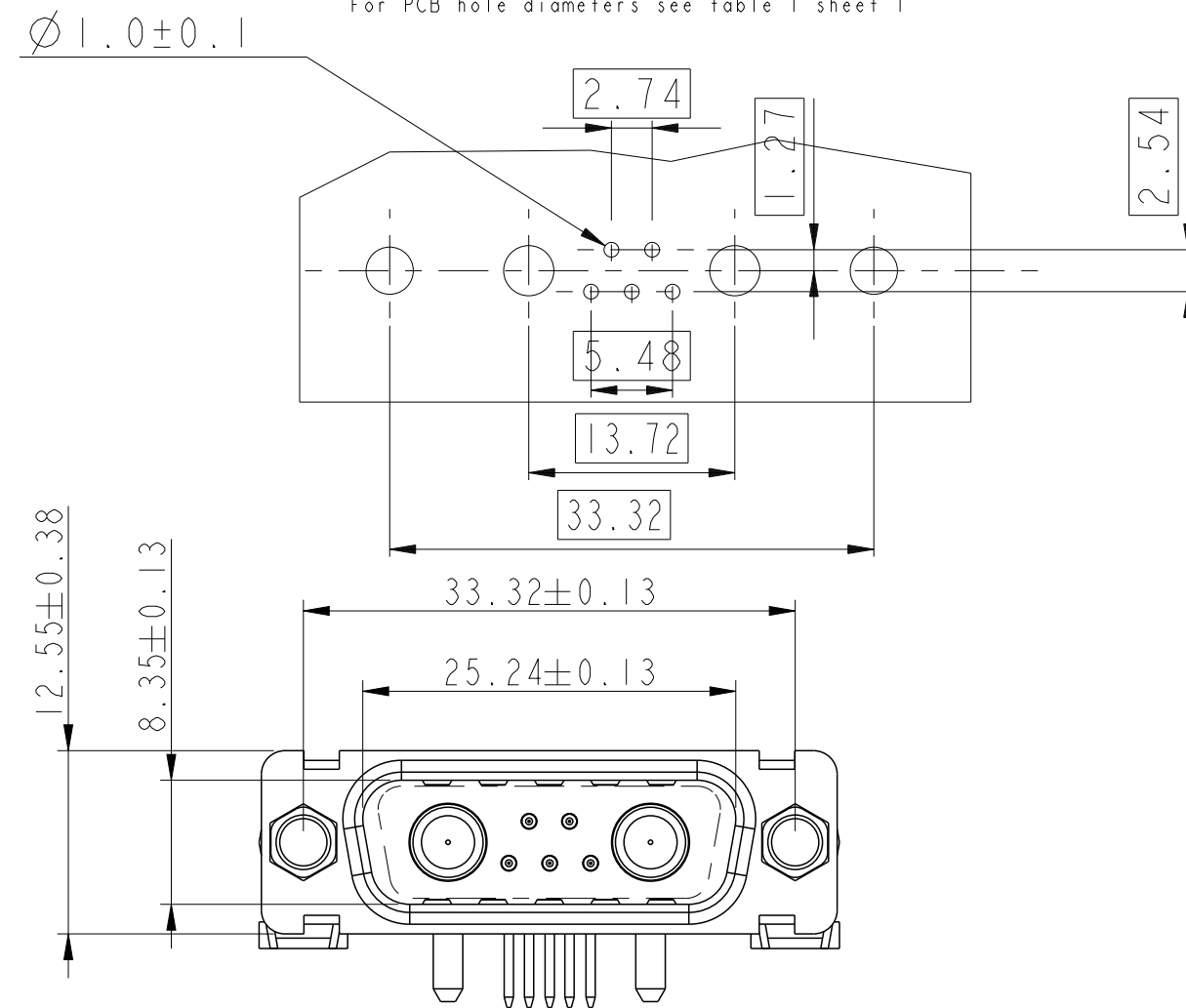
For PCB hole diameters see table I sheet I



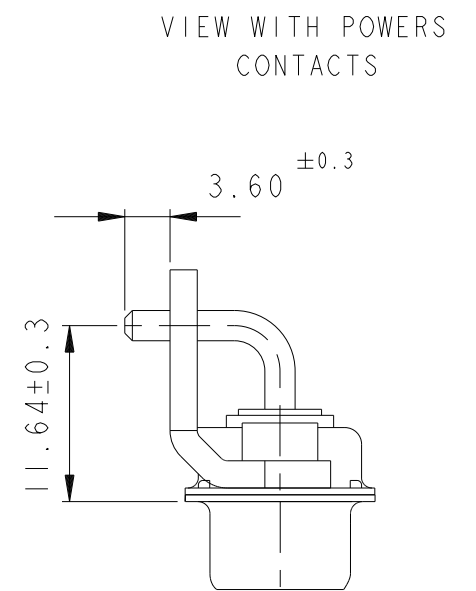
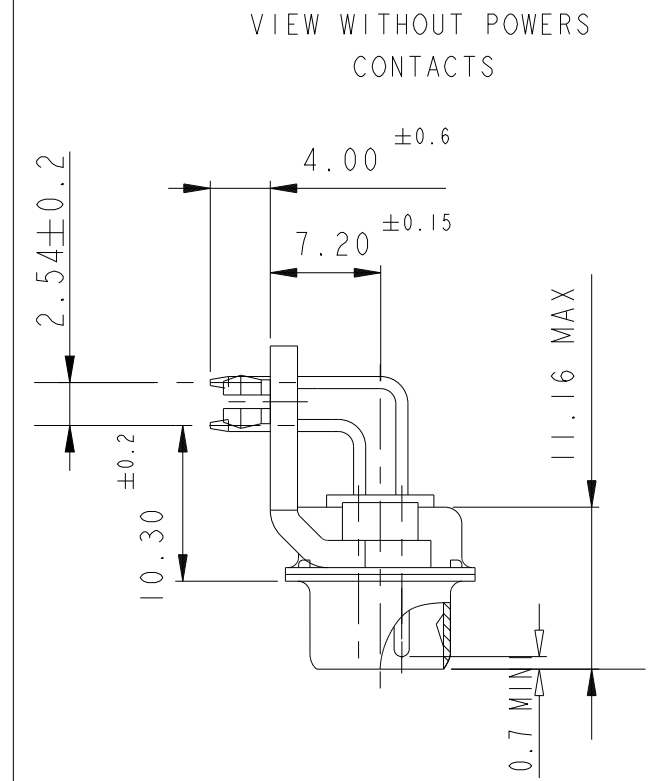
7W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



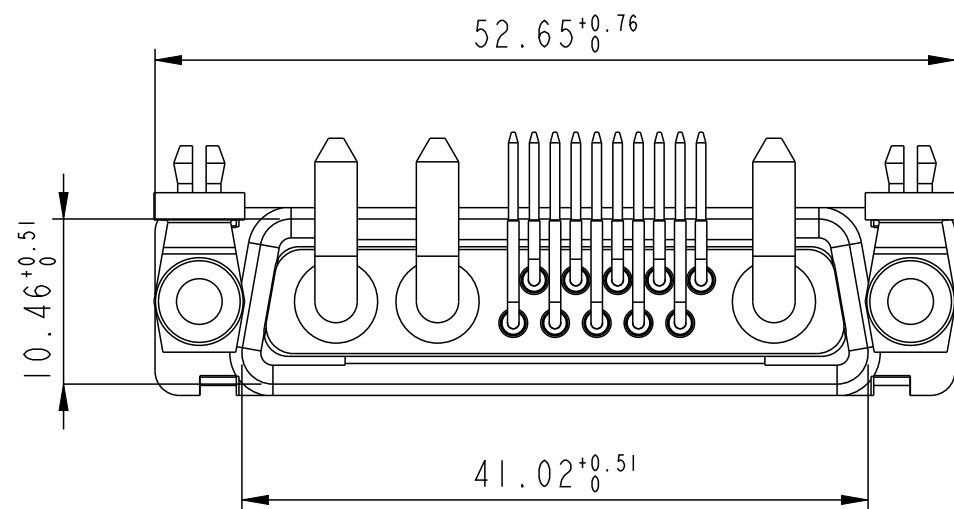
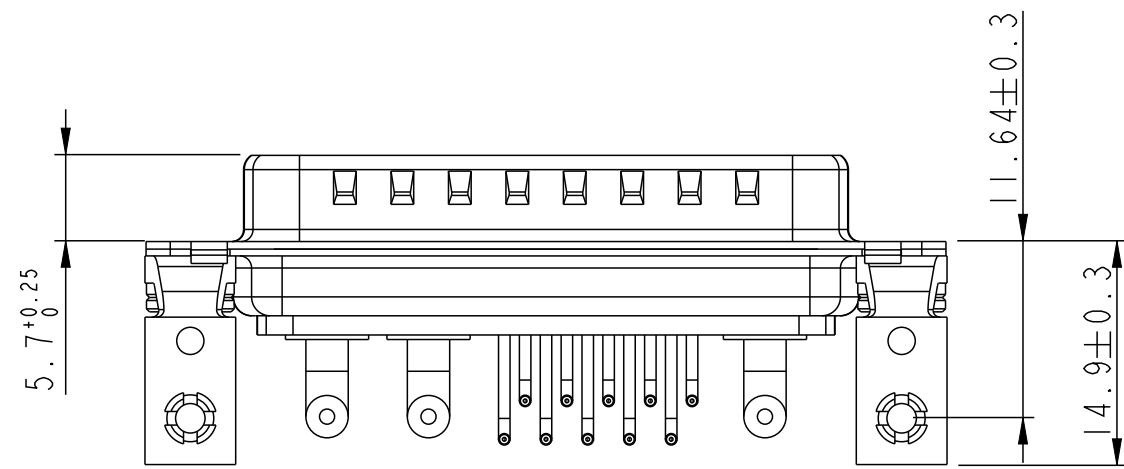
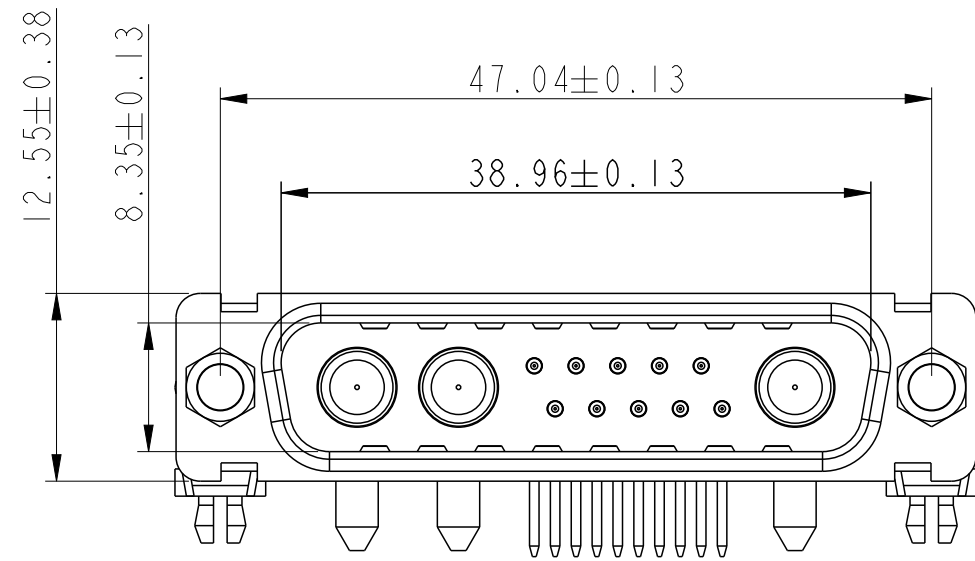
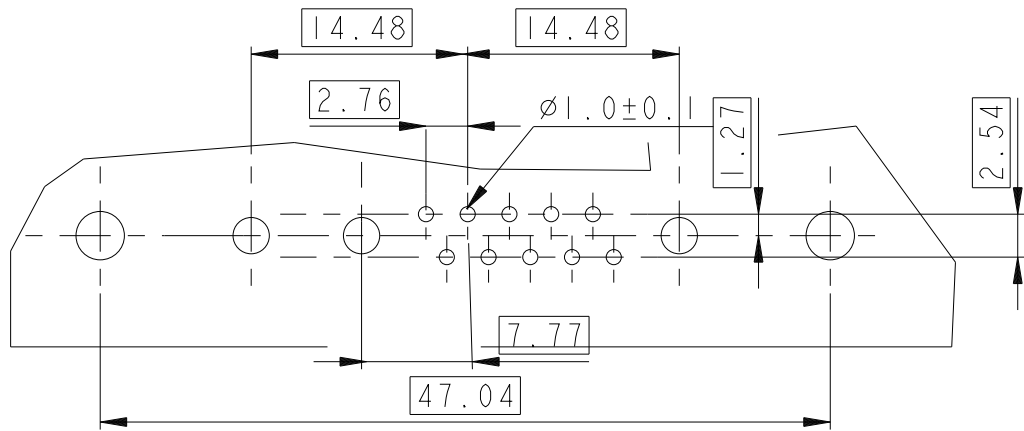
SIDE VIEW FOR ALL LAYOUTS



spec ref			dr1, Product Eng		2015/06/16		projection		mm		sizeA2		scale2:1					
tolerance std			engGregar Mathew		2019/11/11						ecn no		ELX-1-33009-1					
ISO 1101			chr-		-						rel level		Released					
ISO 406			apprVarma Sudhir		2019/11/12						product family		D SUB -					
TOLERANCES UNLESS OTHERWISE SPECIFIED			Amphenol FCI		SUB MALE DW EUROPE FOOT PRINT							dwg no		C01-8639-2304c		rev		
					MIXED POWER RIGHT ANGL SOLDER											E		
					linear		0.X		±0.30									
							0.XX		±0.10									
ISO 1302			angular		0°		±2		cat. no.		-		Product - Customer Drw		sheet 4 of 7			

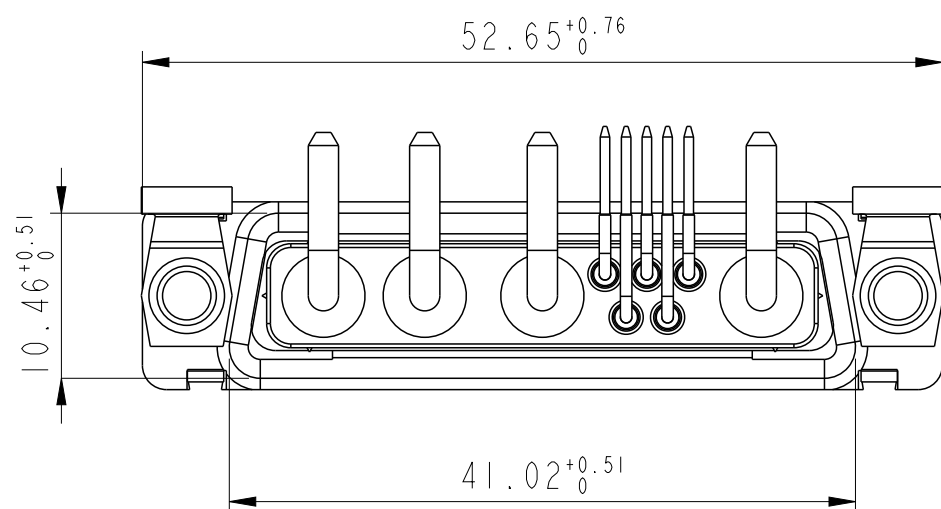
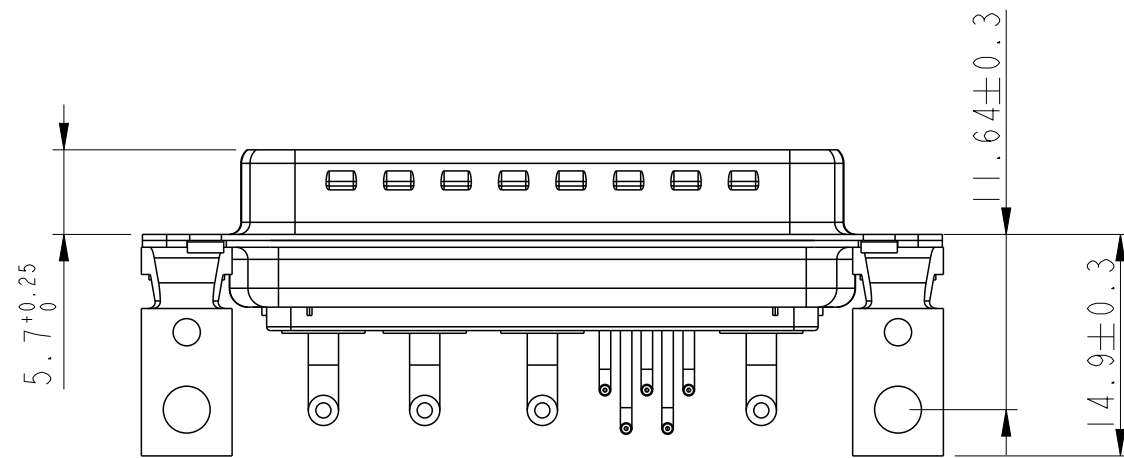
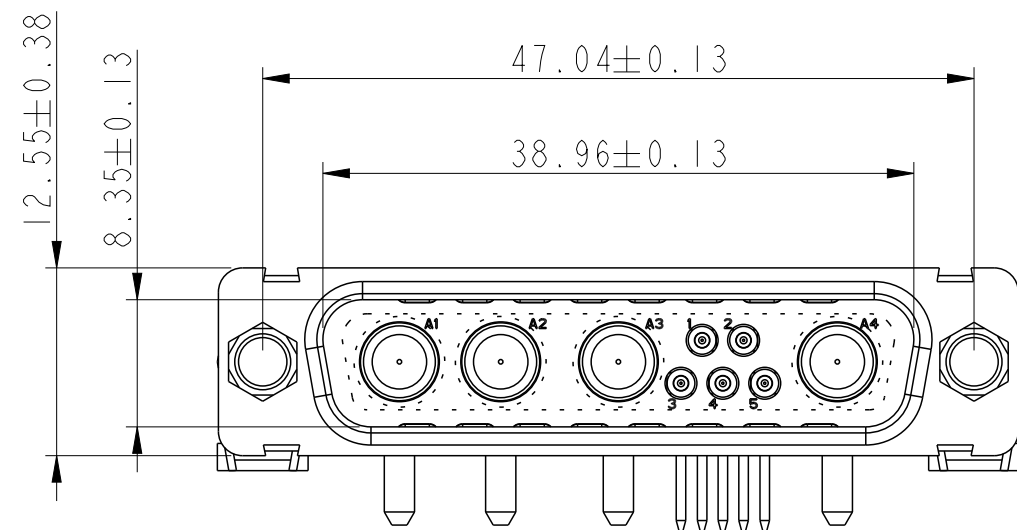
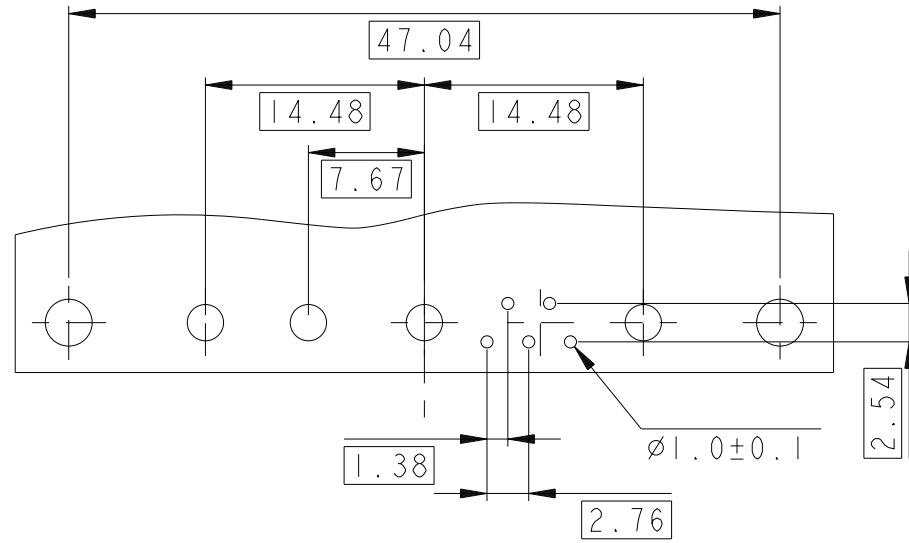
13W3

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



9W4

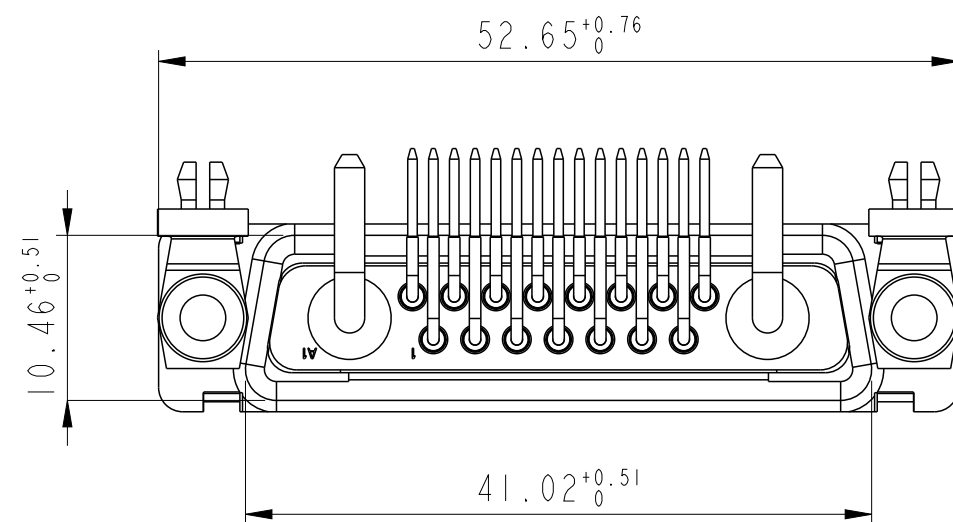
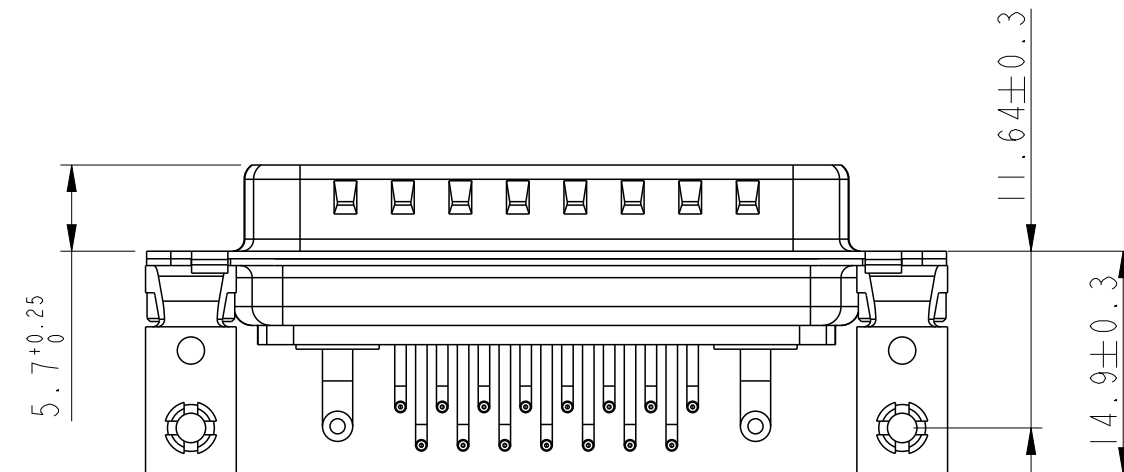
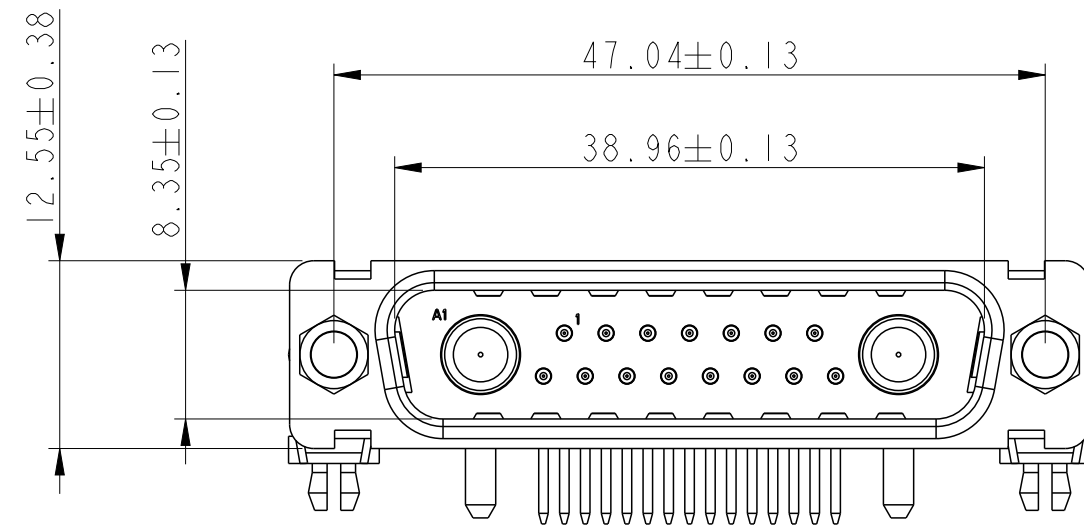
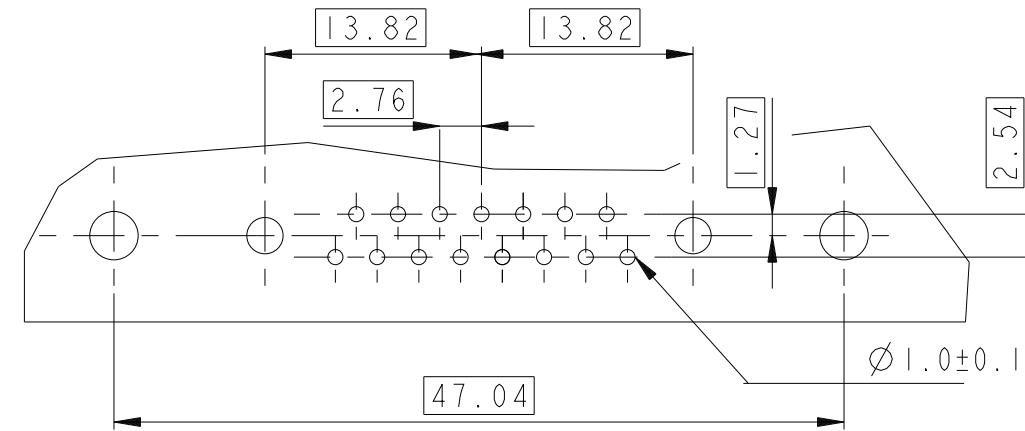
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I

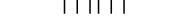


Floating signal contacts

17W2

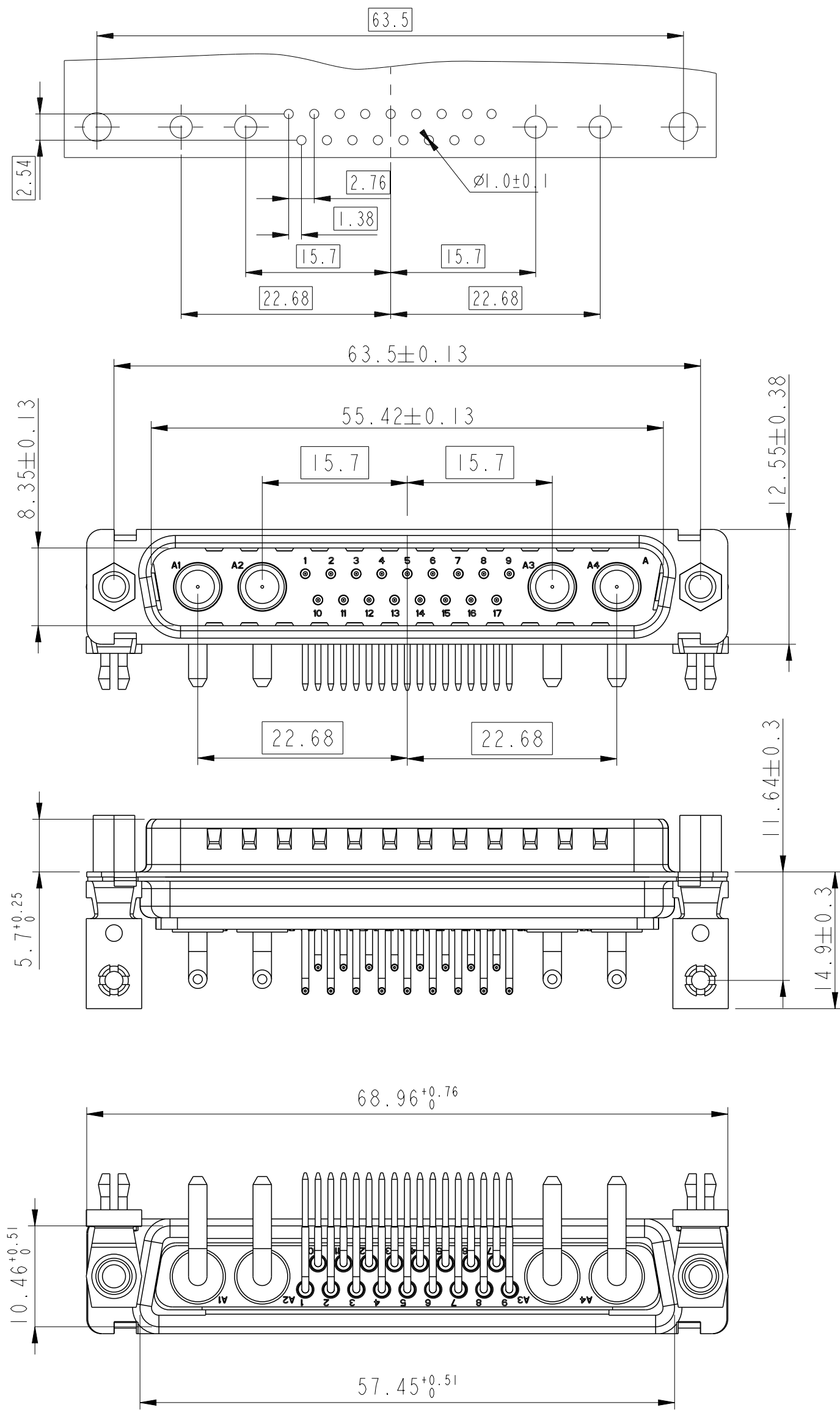
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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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													
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	

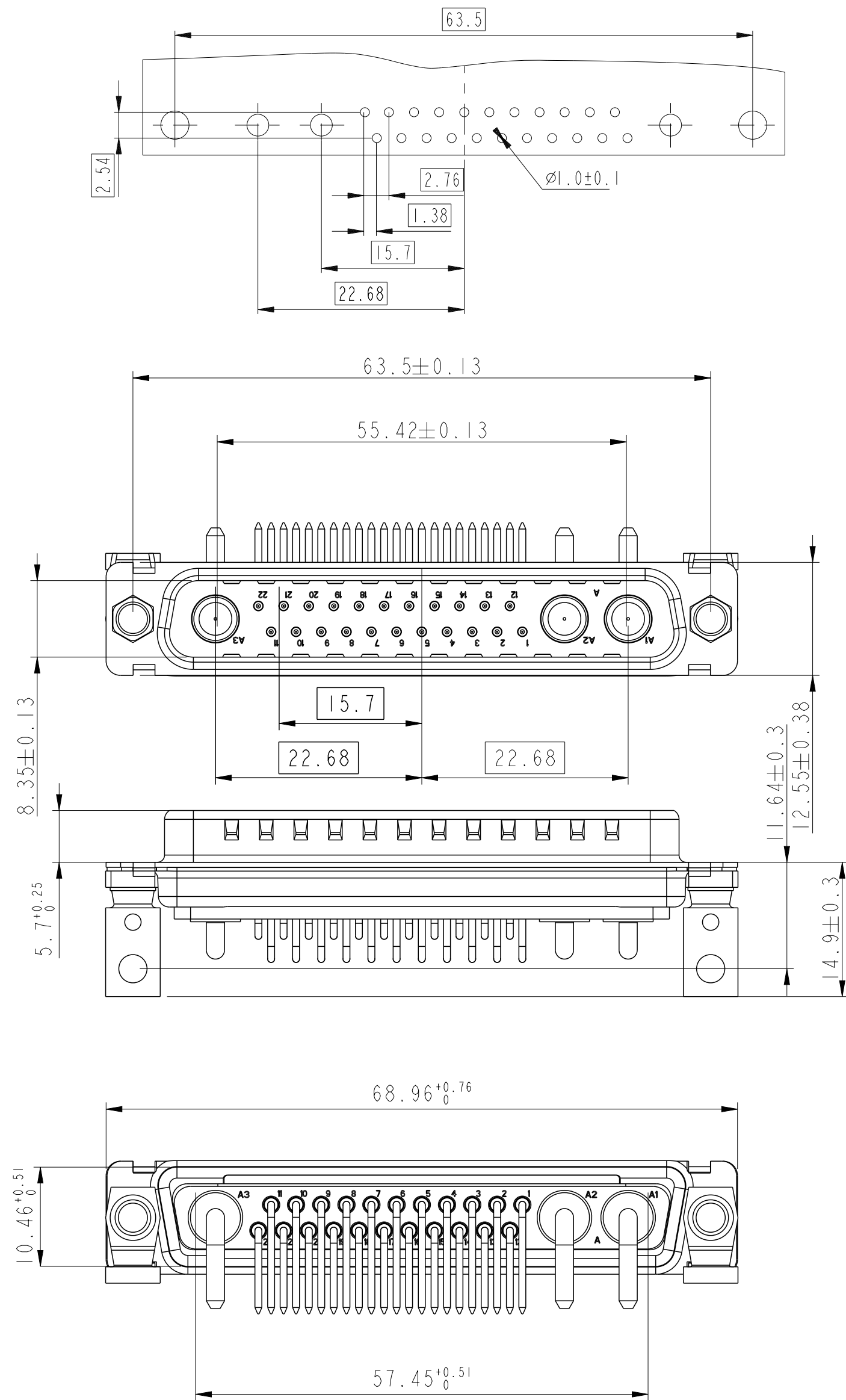
21WA4

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		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					