

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

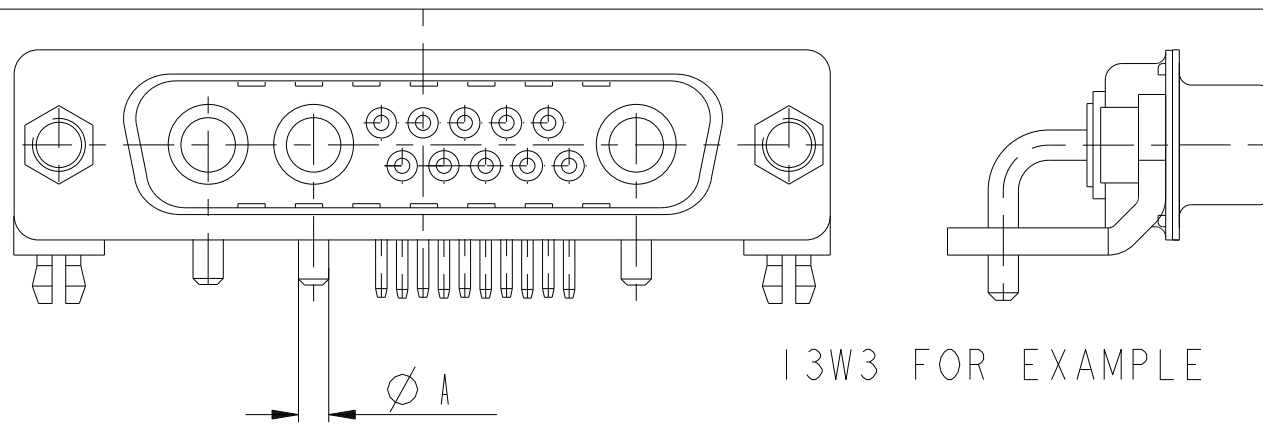
Power contacts
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

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		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		-	-				Released		
		appr		Varma Sudhir	2019/11/12	product family		-			
surface ISO 1302	linear	0.X		±0.3		Amphenol FCI	SUB MALE DW EUROPE FOOT PRINT		C01-8639-2304c	rev E	
		0.XX		±0.10.10							
		0.XXX		±0.05							
		angular		0°							
		cat. no.		-		Product - Customer Drw				sheet 1 of 7	

Amphenol
FCi

© 2016 AFCI

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

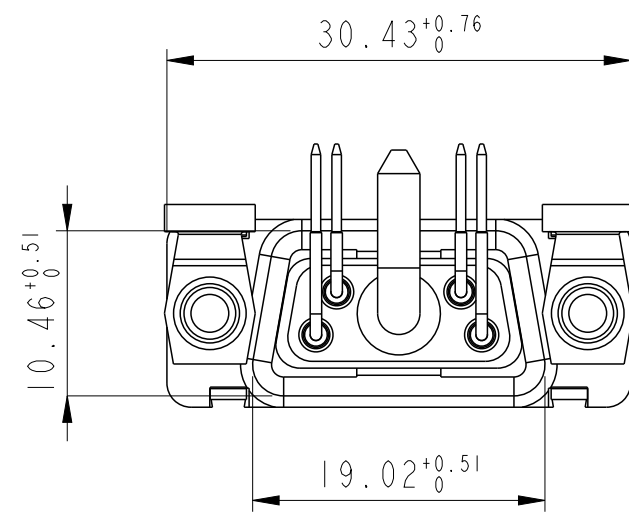
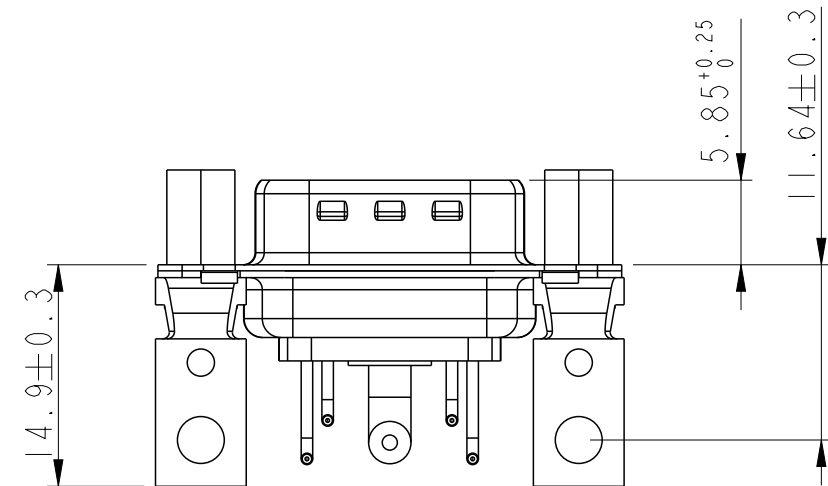
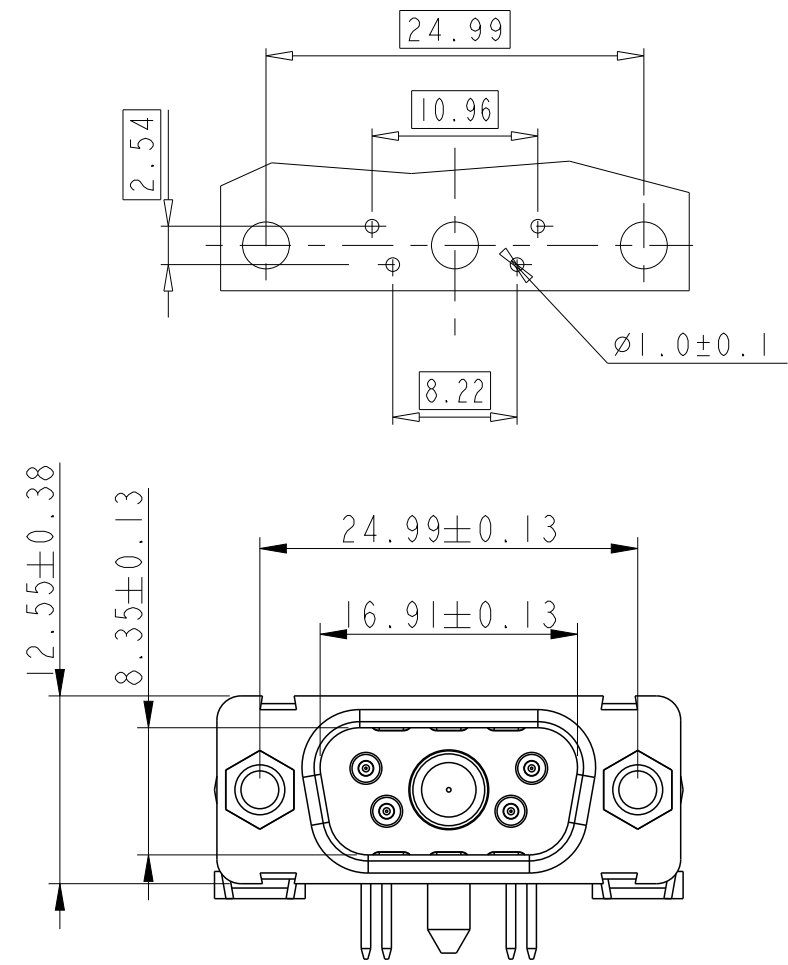
F	FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
	PCB ACCESSORIES	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	G Metal brackets + harpoons for PCB 1.60mm	H Metal brackets + 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		rel level		Released					
ISO 1101				chr		-		-																	
ISO 1101				appr		Varma Sudhir		2019/11/12														product family		-	
ISO 406																									
surface				linear		0.X		±0.30				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									

5W1

LAYOUT AND CONNECTOR DIMENSIONS

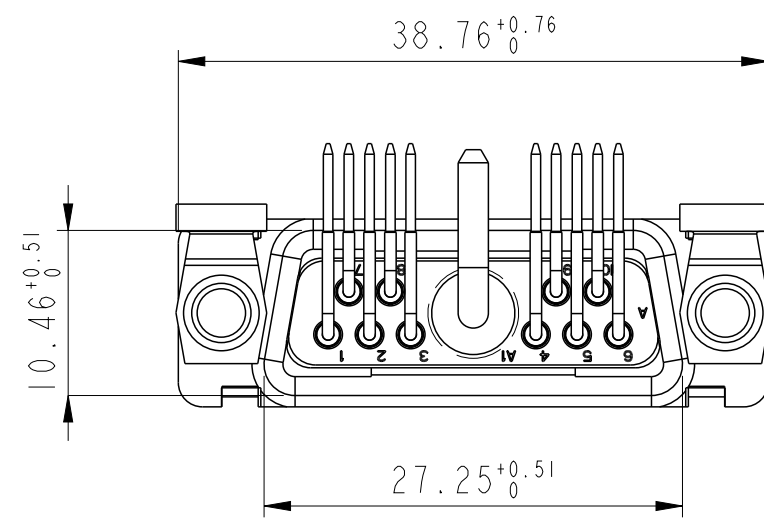
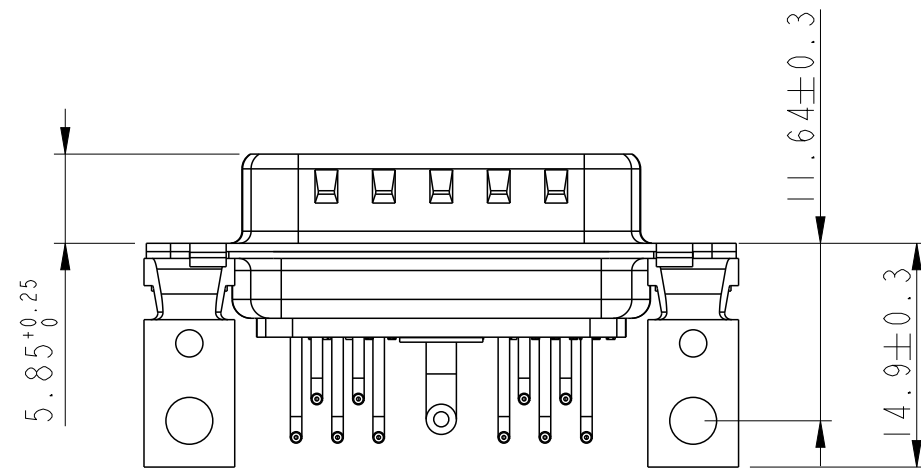
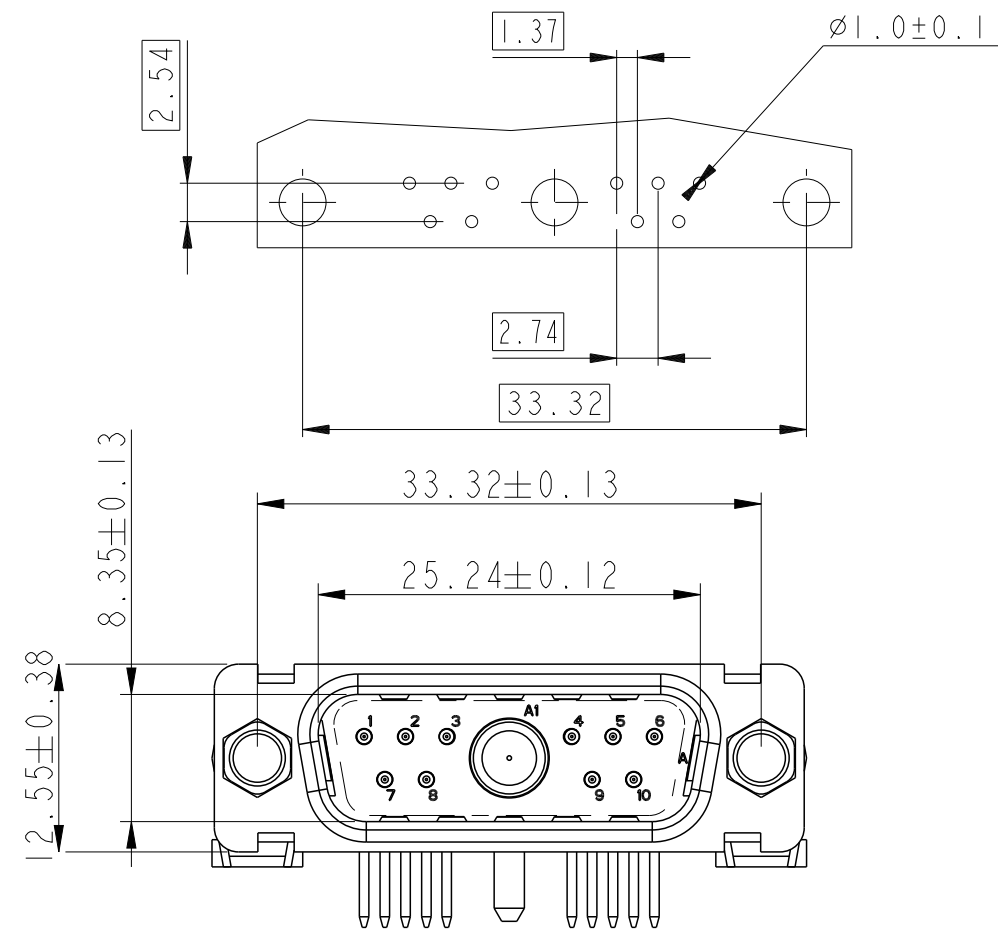
For PCB hole diameters see table I sheet I



11W1

LAYOUT AND CONNECTOR DIMENSIONS

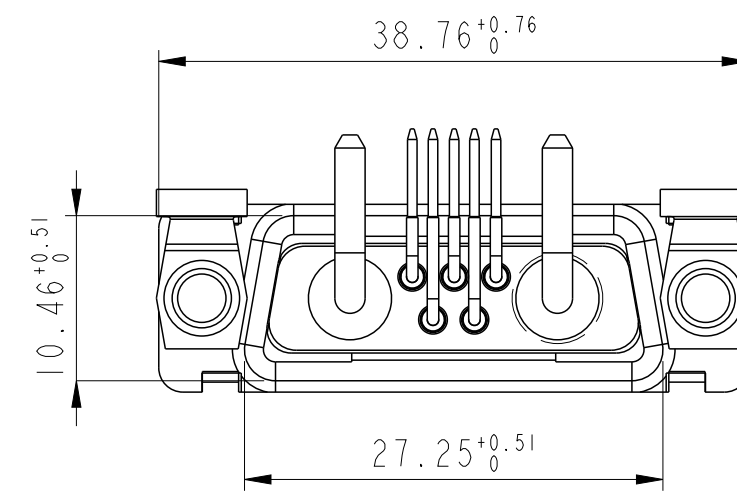
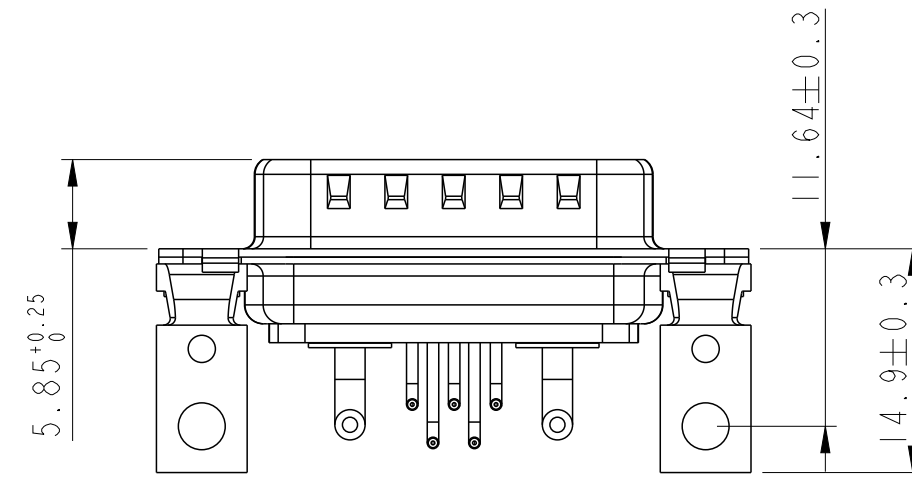
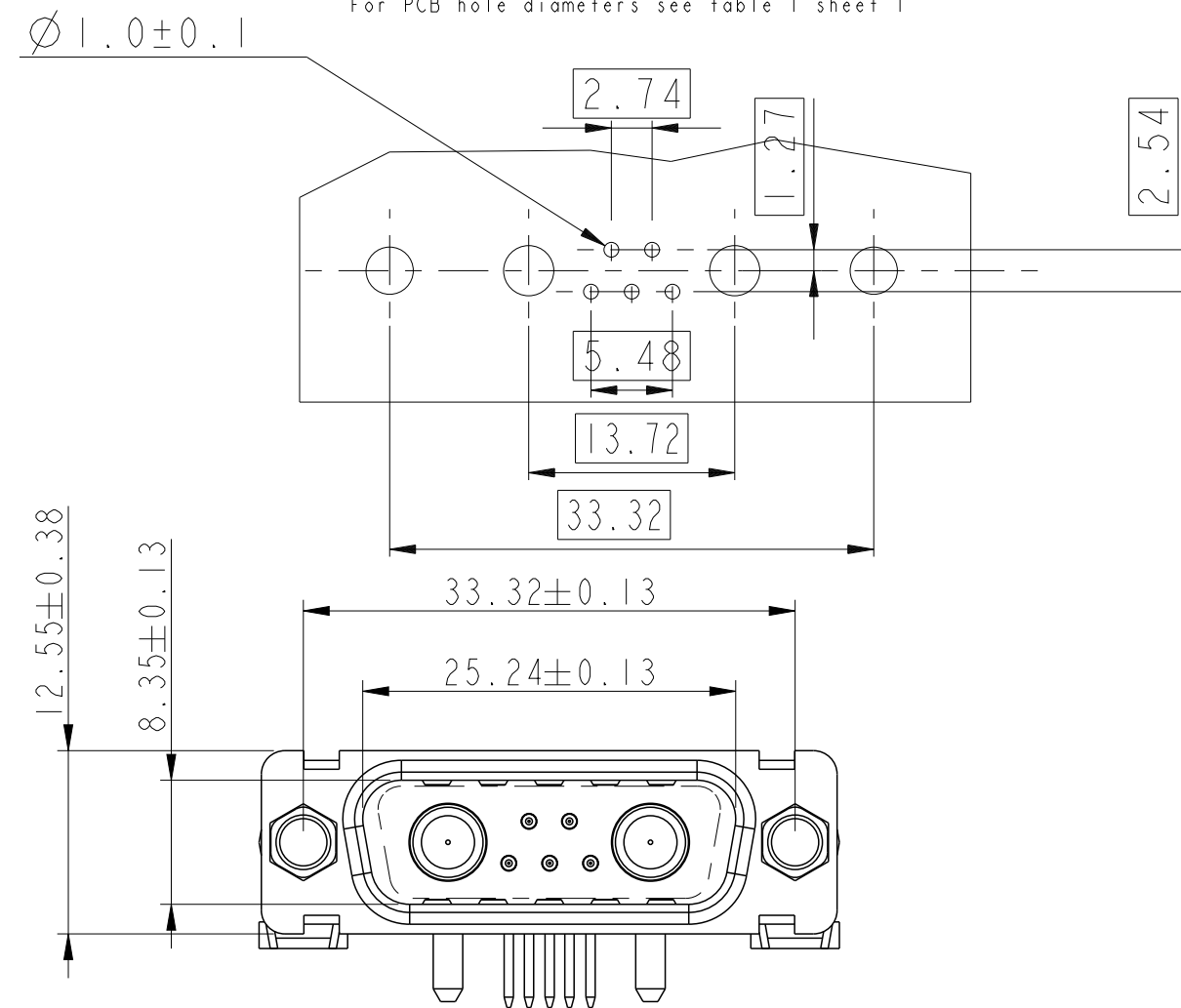
For PCB hole diameters see table I sheet I



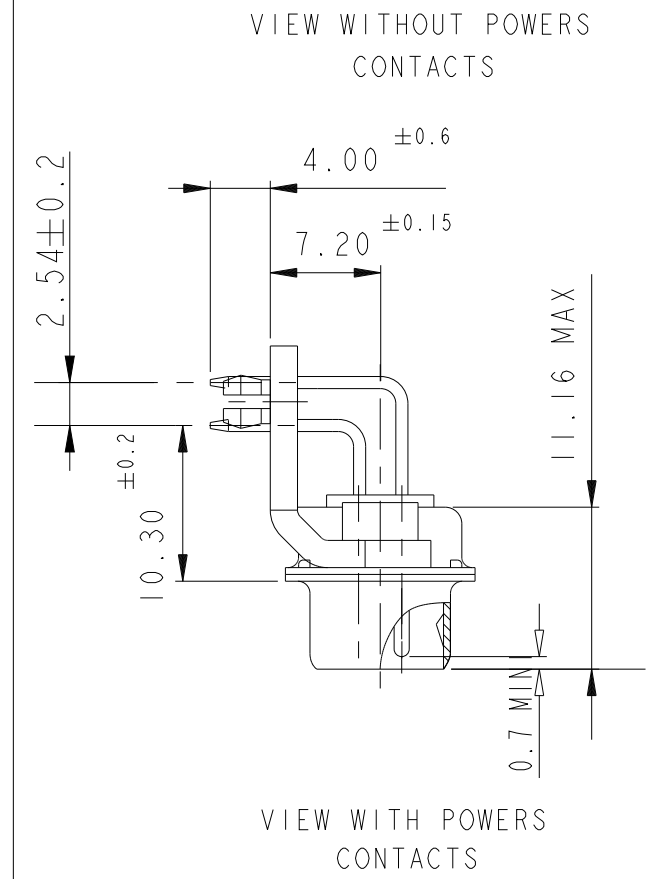
7W2

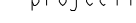
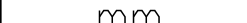
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



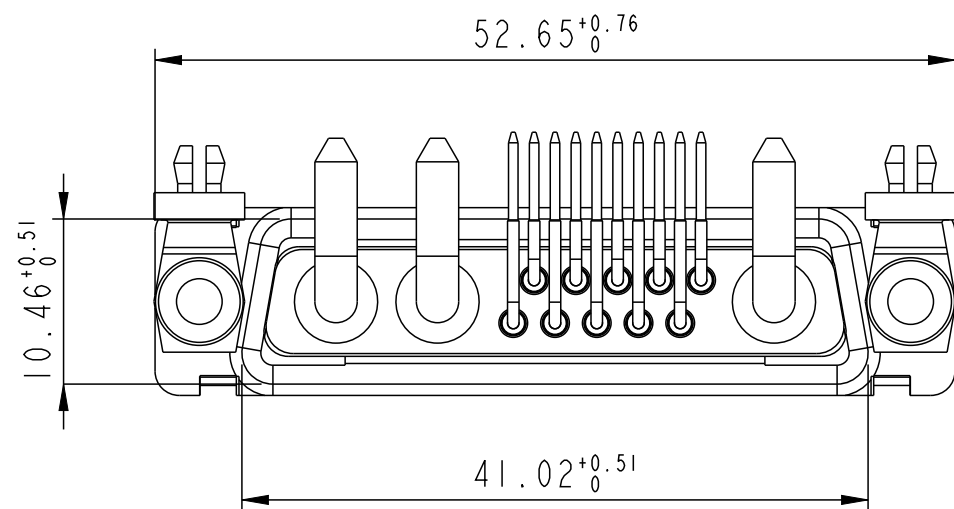
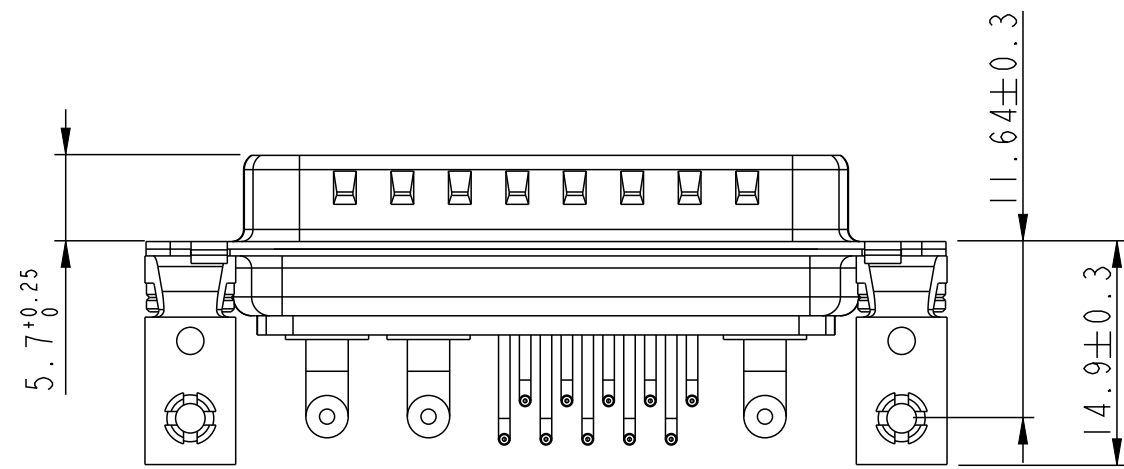
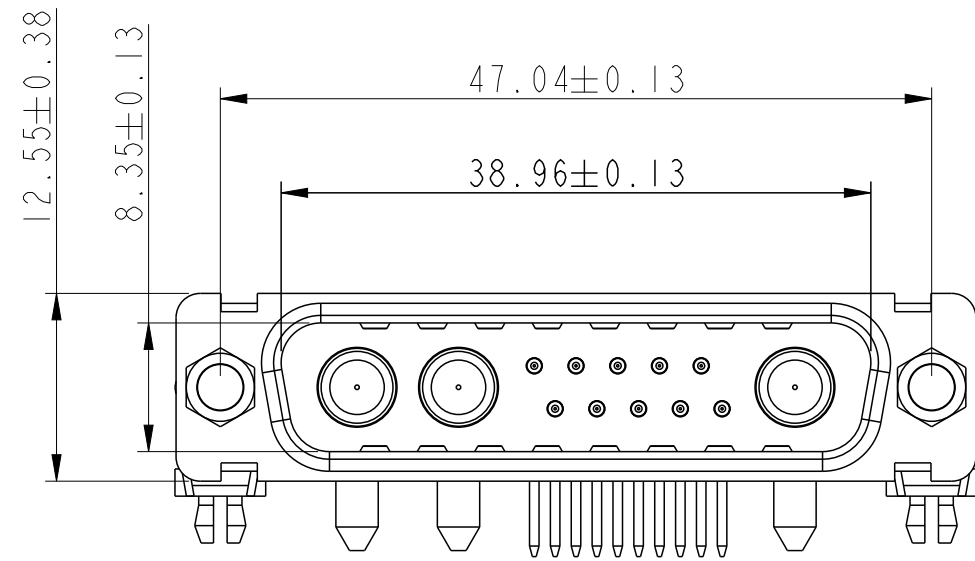
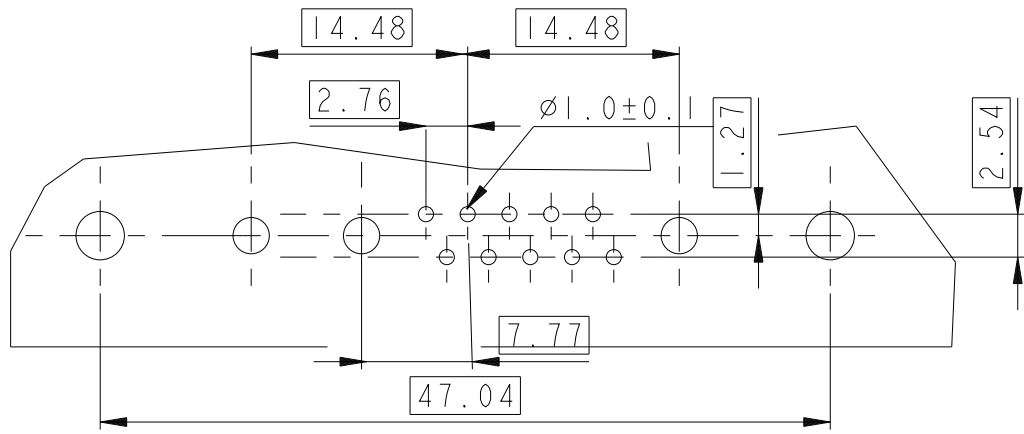
SIDE VIEW FOR ALL LAYOUTS



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		±0.05													
ISO 1302		angular		0°		±2		cat. no.		-		Product - Customer Drw		sheet 4 of 7			
TOLERANCES UNLESS OTHERWISE SPECIFIED																	

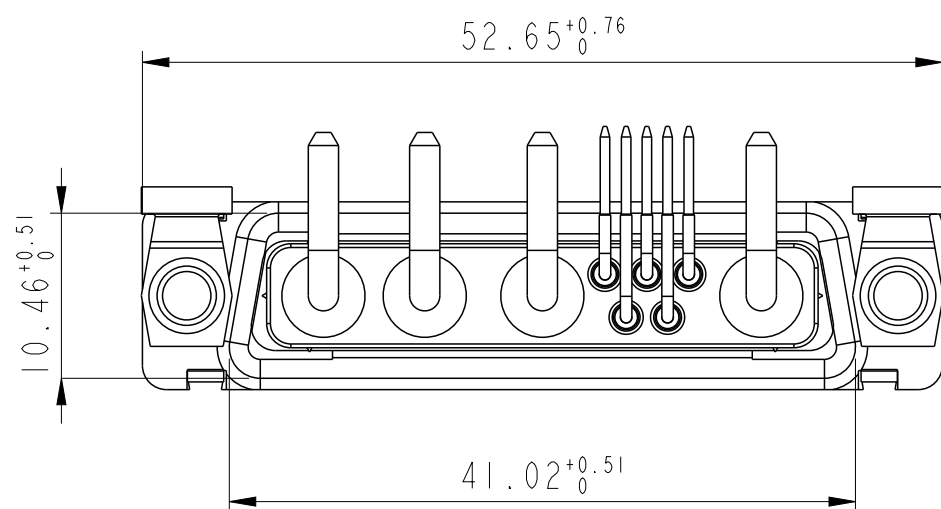
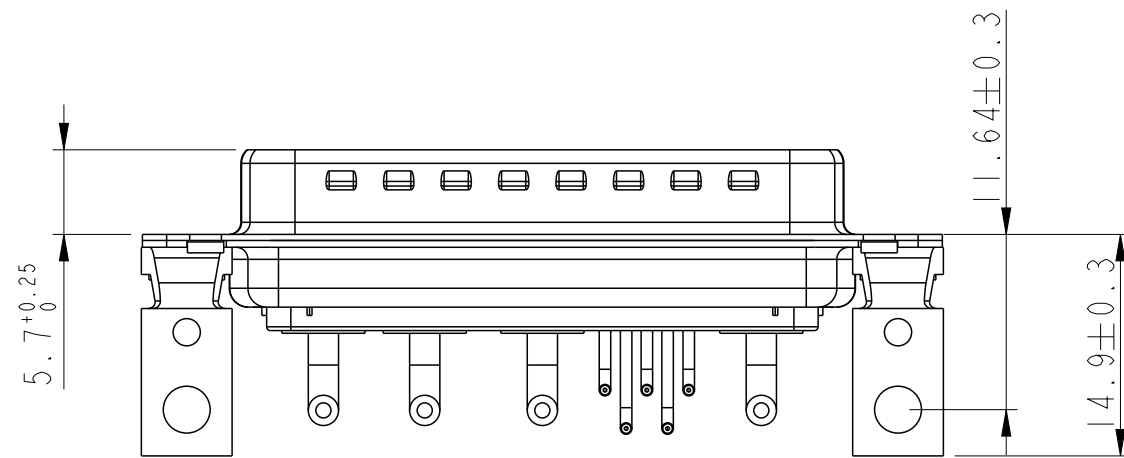
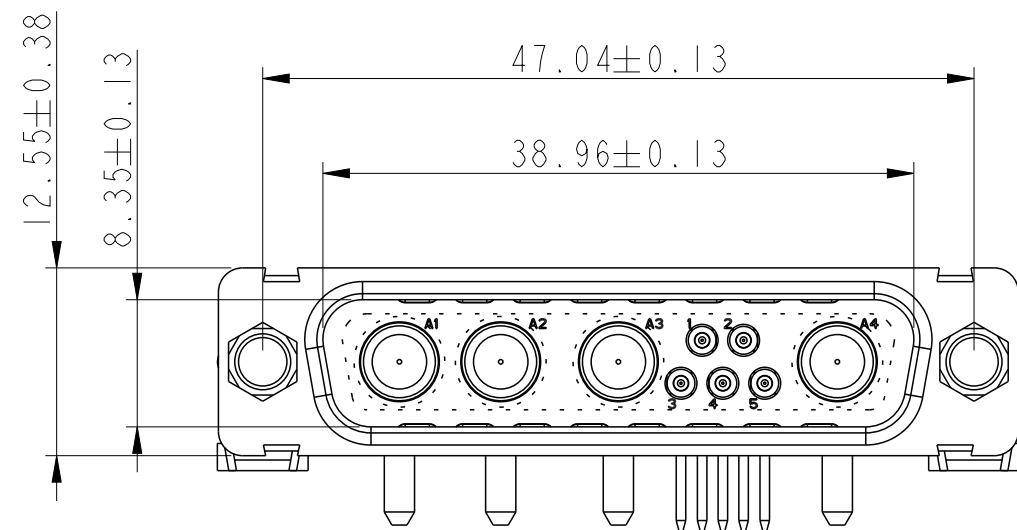
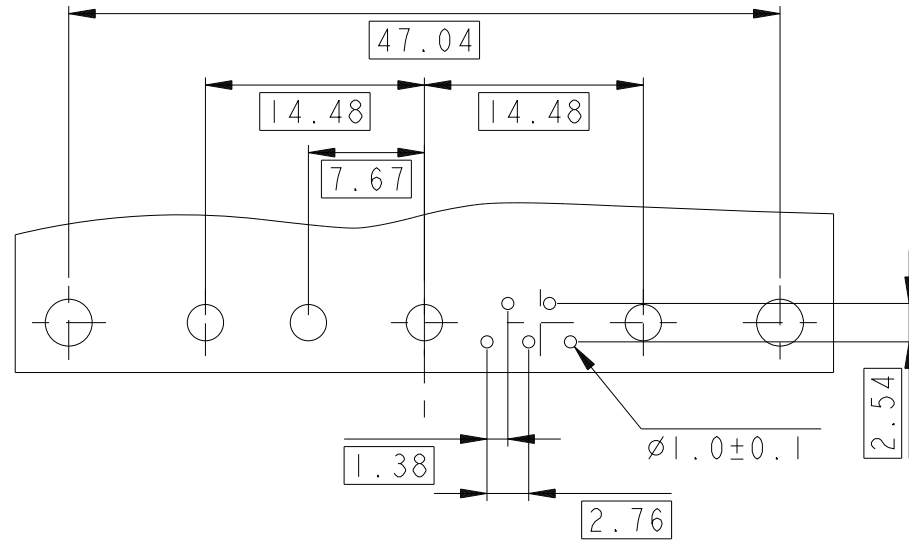
13W3

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



9W4

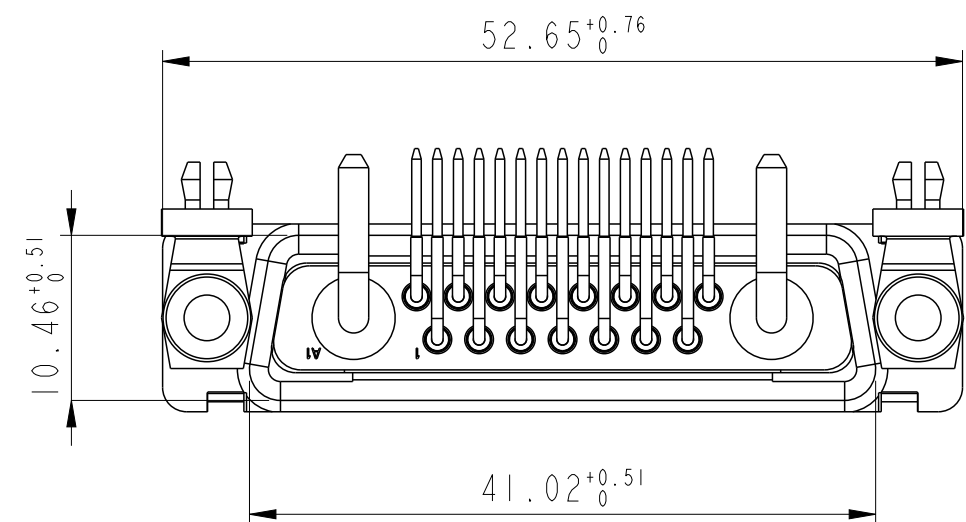
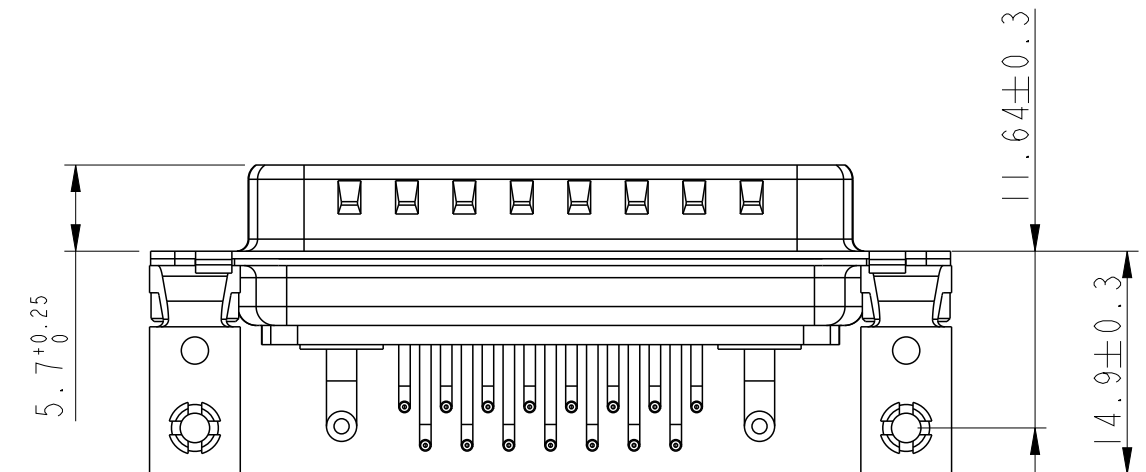
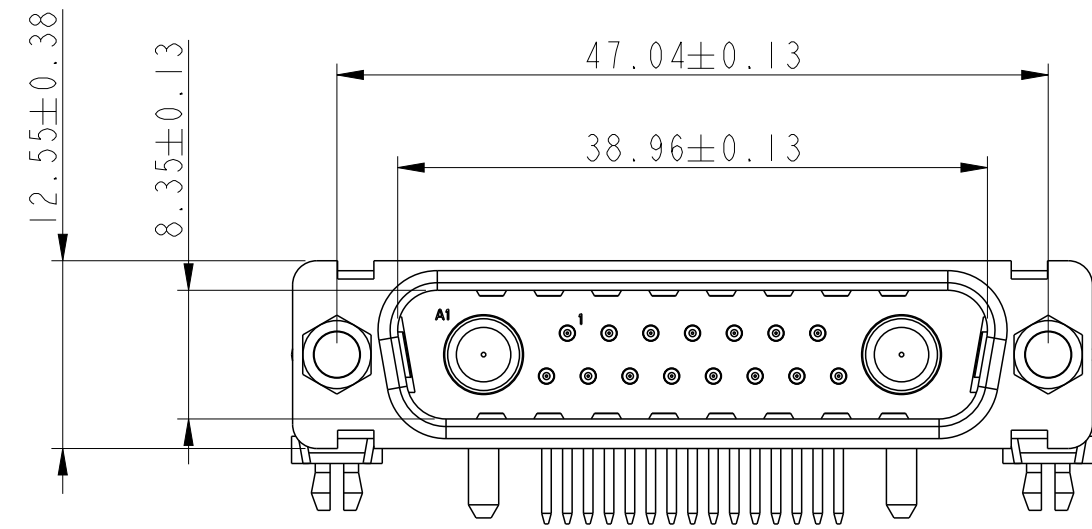
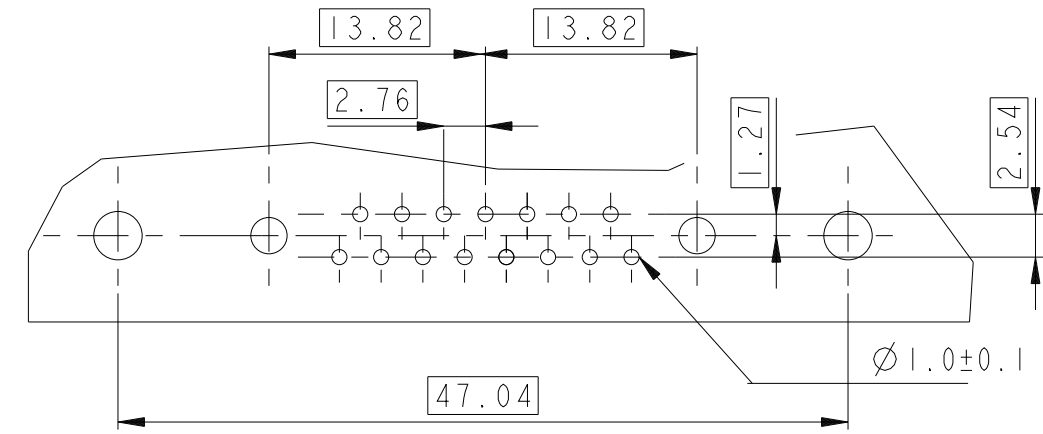
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

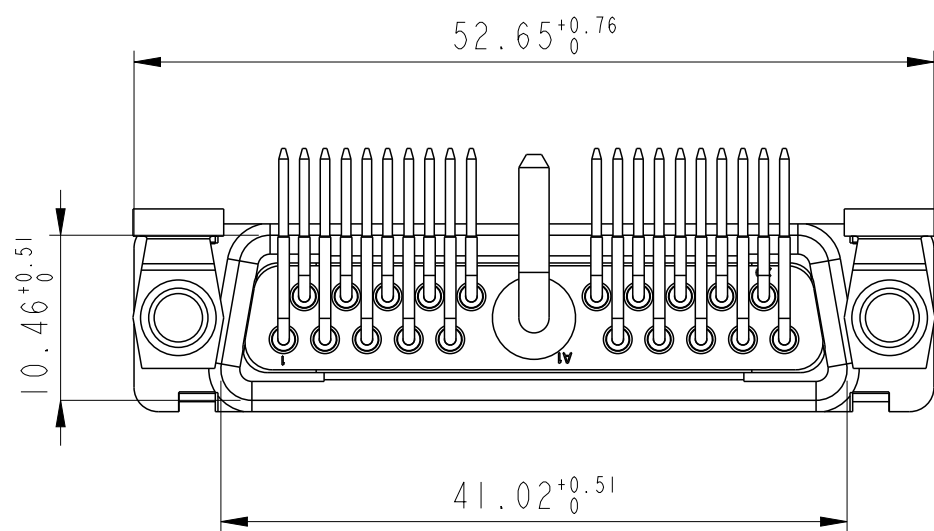
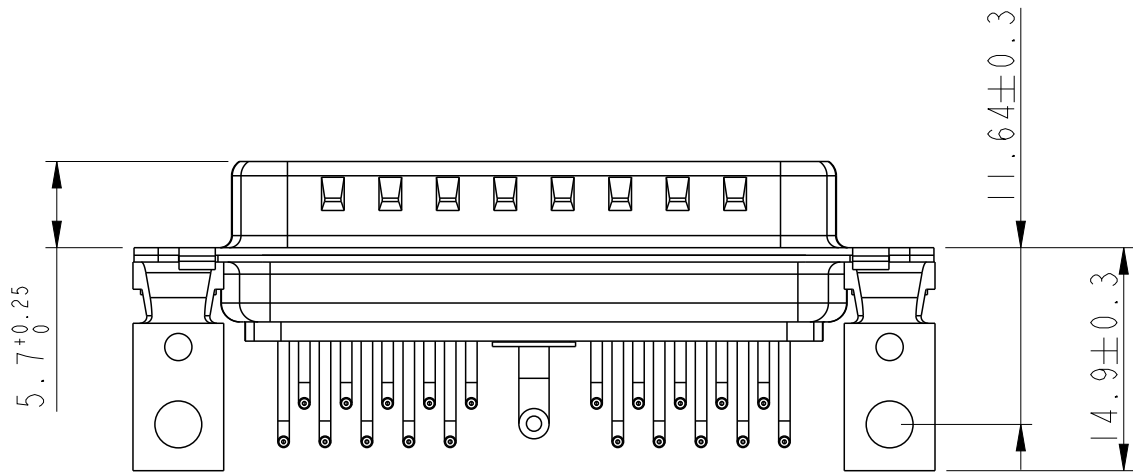
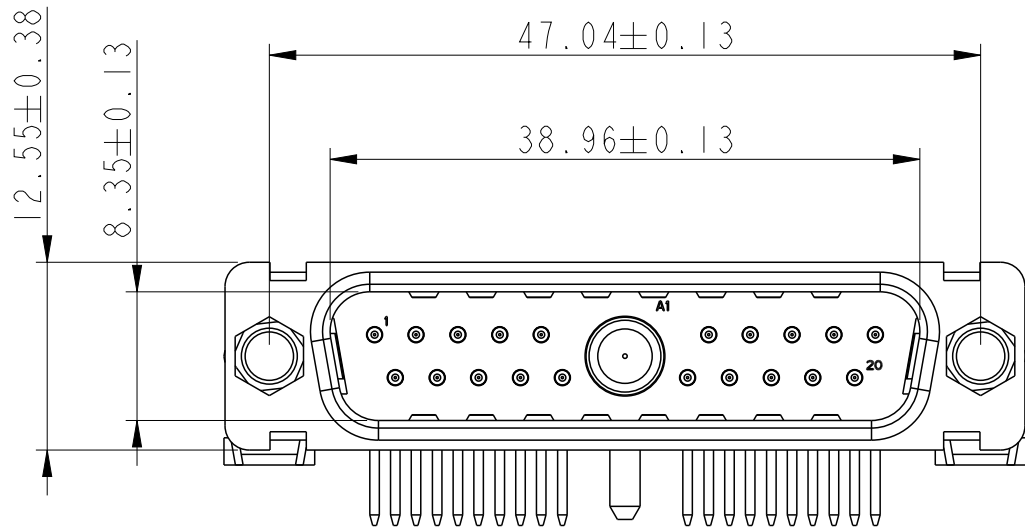
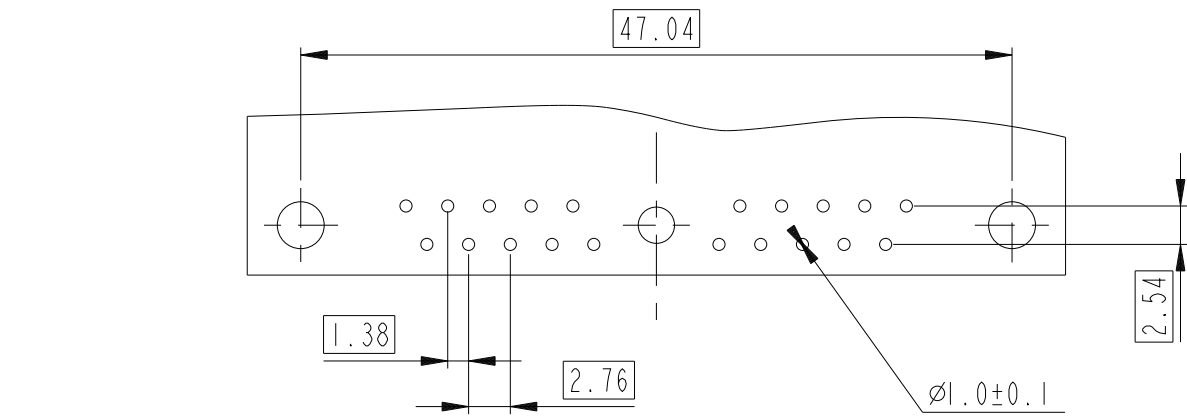
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



spec ref				dr		1, Product Eng		2015/06/16		projection		size		scale					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Gregar Mathew		2019/11/11				A2		2:1					
ISO 1101				chr		-		-				ecn no		ELX-1-33009-1					
ISO 406				appr		Varma Sudhir		2019/11/12				product family		D SUB -		rel level		Released	
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	
ISO 1302		angular		0° ±0.2				cat. no.		-		Product - Customer Drw		sheet 5 of 7					

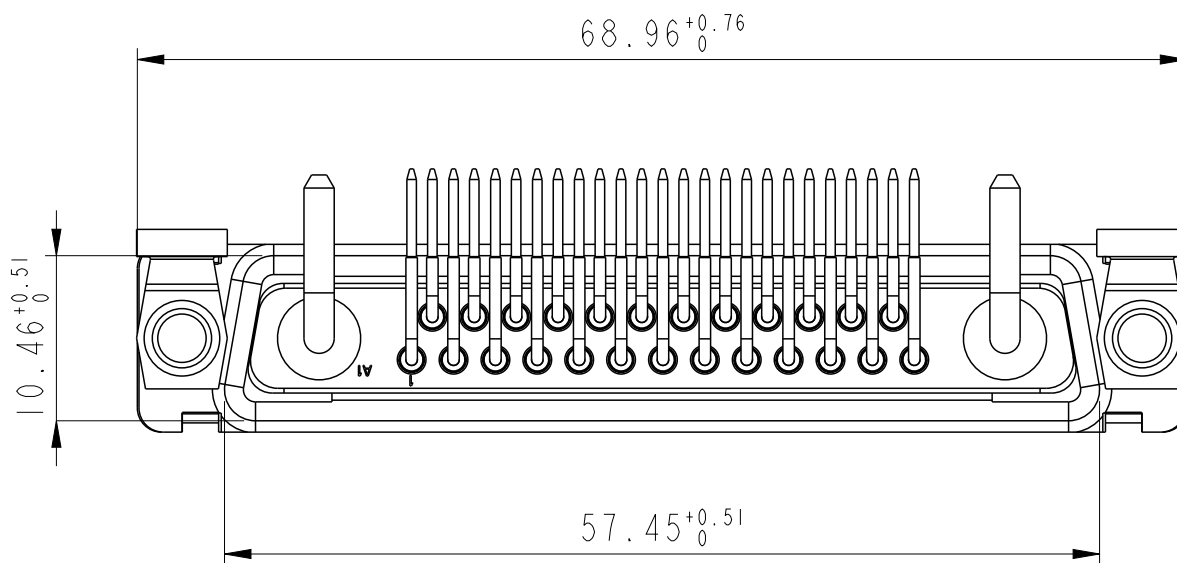
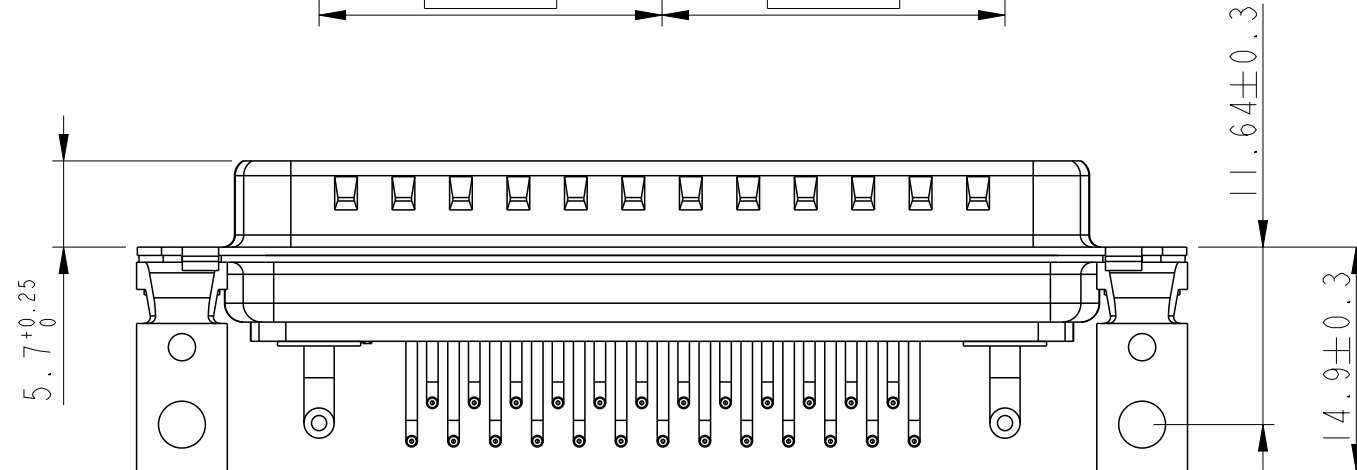
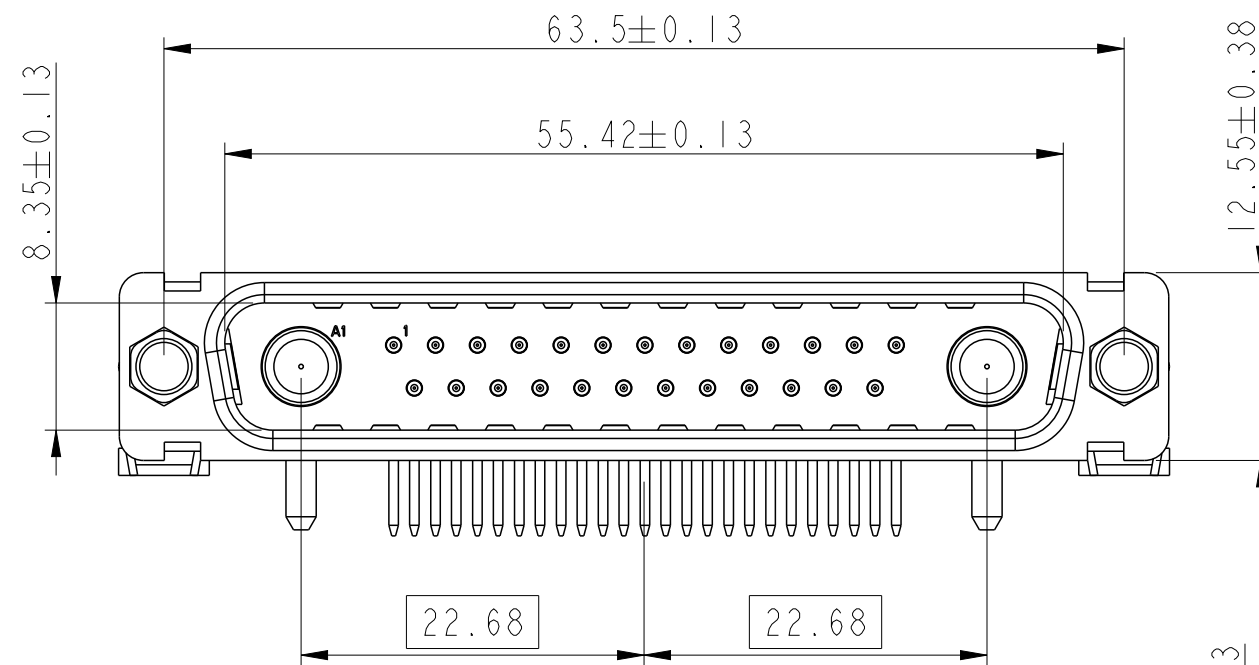
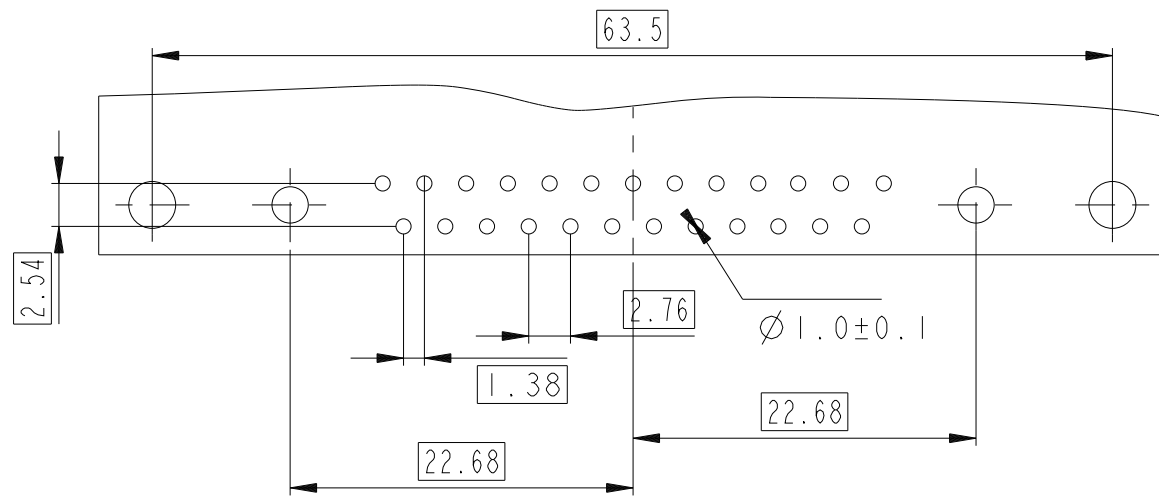
21W1

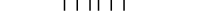
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



27W2

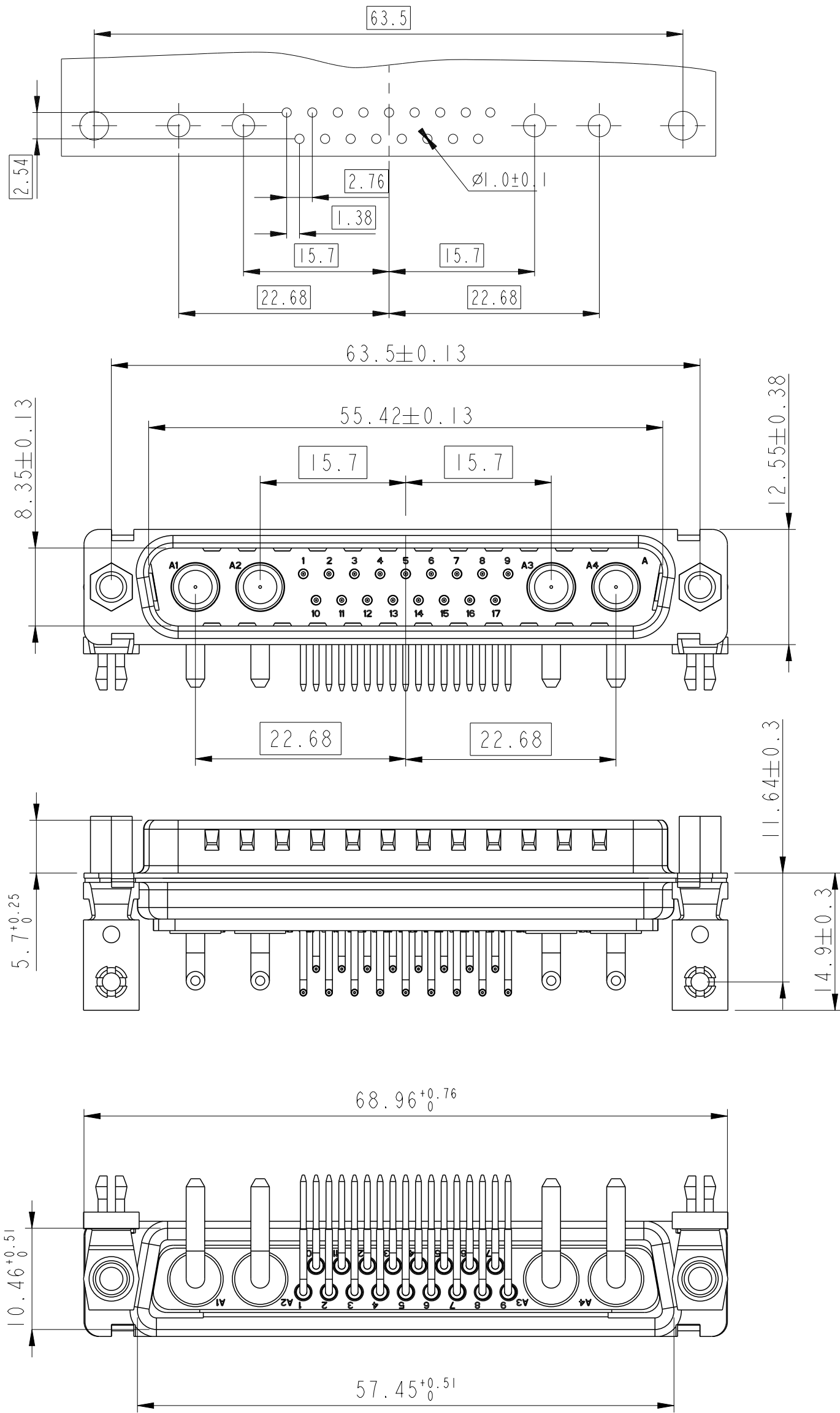
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



spec ref				dr		1, Product Eng		2015/06/16		projection		mm		size		A2		scale		2:1			
tolerance std		TOLERANCES OTHERWISE SPECIFIED		UNLESS 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		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					

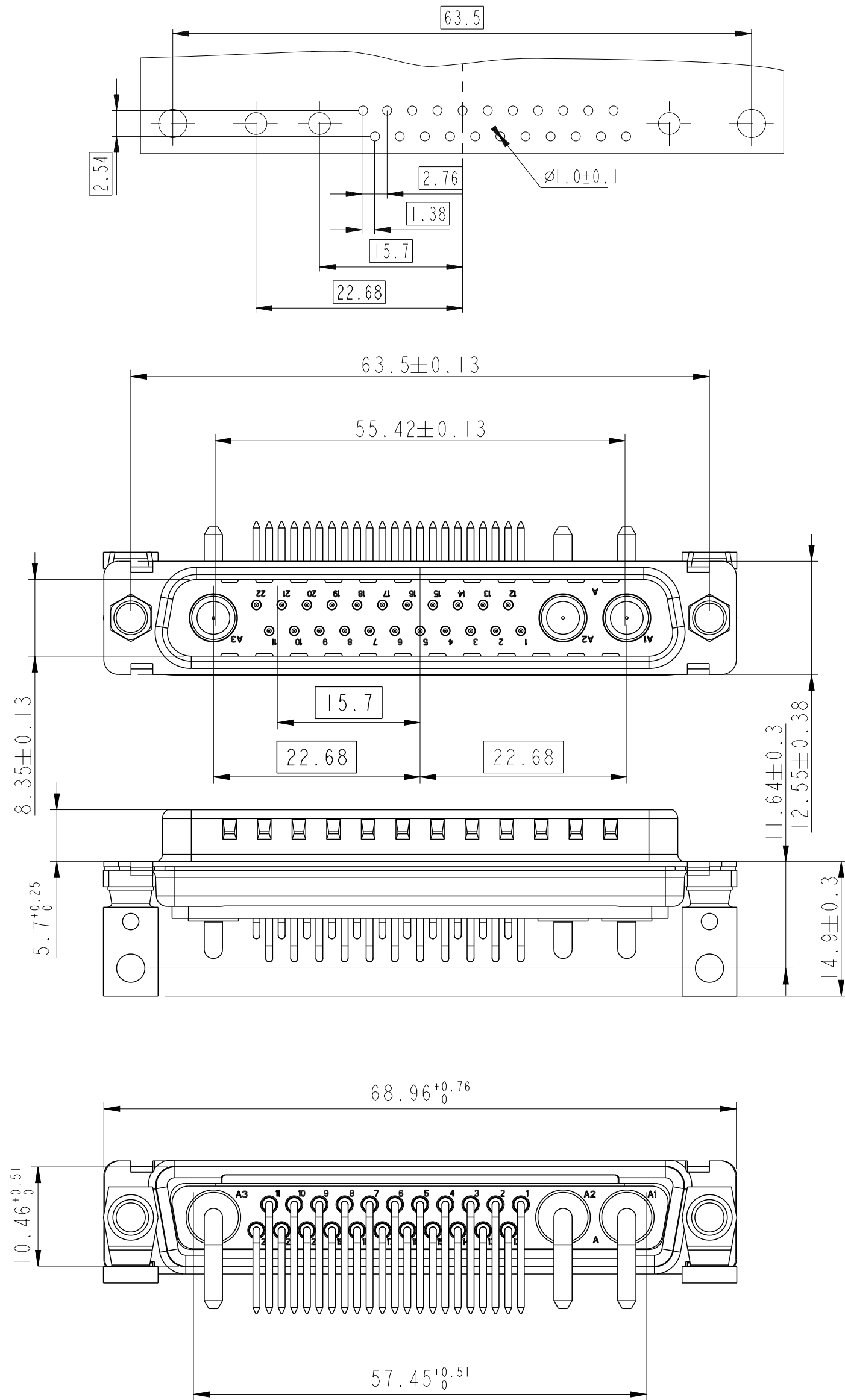
21WA4

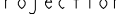
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



25W3

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



spec ref		dr1, Product Eng2015/06/16		projection		sizeA2		scale2:1			
tolerance std		engGregar Mathew2019/11/11				mm 		ecn noELX-133009-1			
ISO 1101 ISO 406		chr-2019/11/12									
TOLERANCES UNLESS OTHERWISE SPECIFIED		apprVarma Sudhir2019/11/12		product family		-		rel levelReleased			
surface		linear		Amphenol FCi		SUB MALE DW EUROPE FOOT PRINT MIXED POWER RIGHT ANGL SOLDER		dwg noC01-8639-2304c		revE	
ISO 1302		angular									
		0.X±0.30									
		0.XX±0.10									
		0.XXX±0.05									
		0°±2°									