

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE(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 + nickel + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

Series

Shell size: **E A B C D**
(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

S :Socket

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

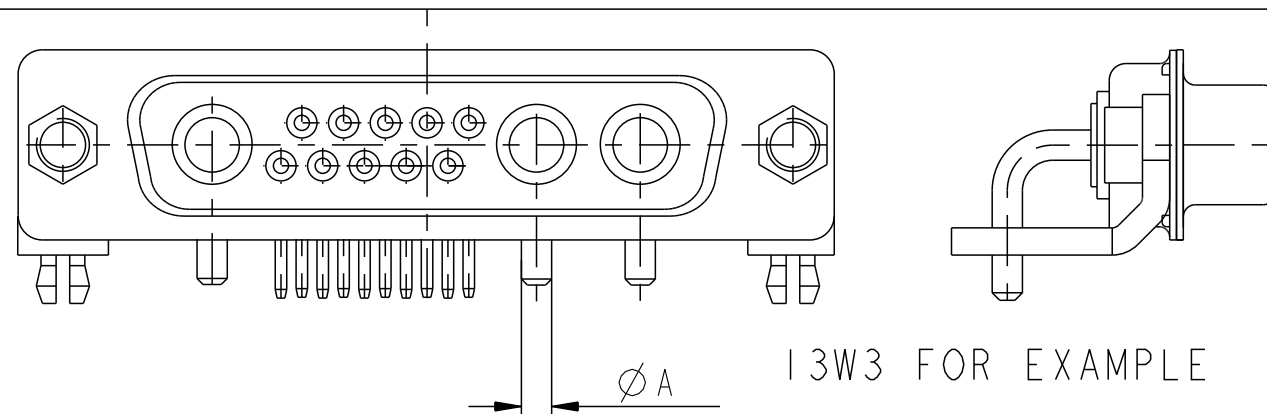
00 :No fitted with power contact (Signal contact always fitted)

30 :Fitted with power contacts 30 Amp.

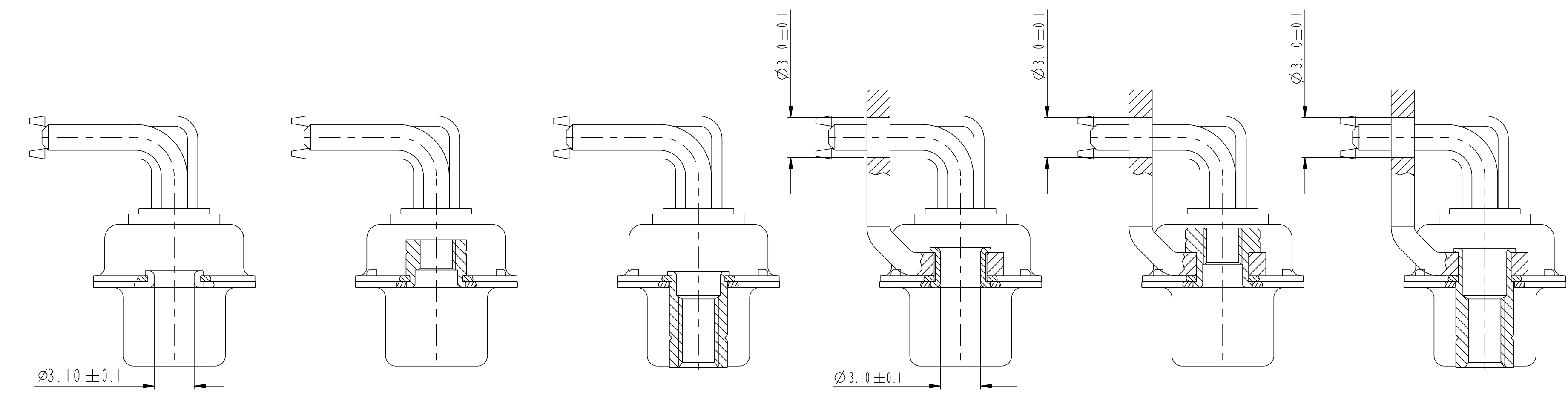
40 :Fitted with power contacts 40 Amp.

TABLE 1:PCB HOLE DIAMETERS

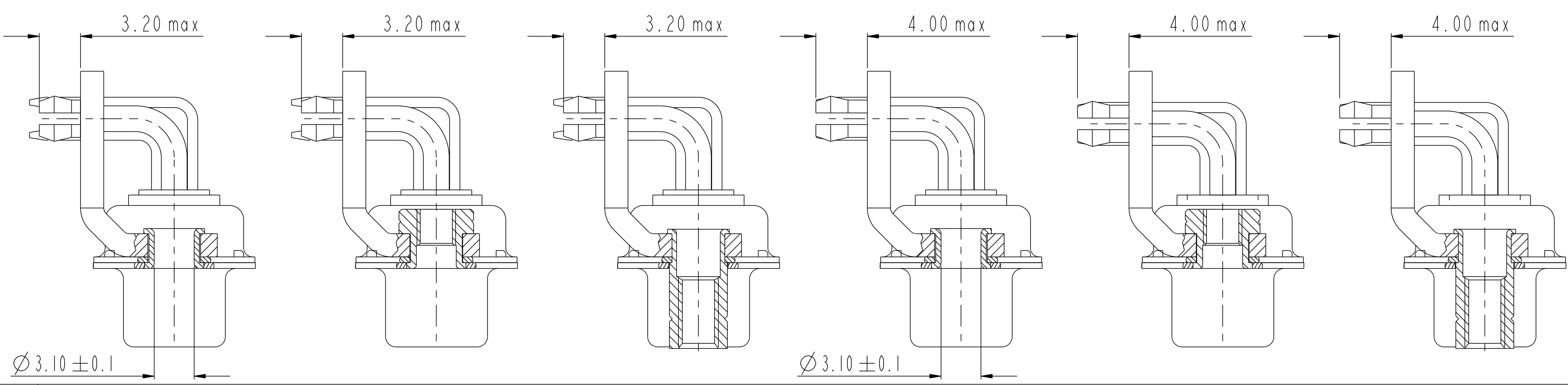
POWER CONTACTS			ACCESSORIES	SIGNAL CONTACT
30 A	2.00	Ø 2.40	Ø3.10	Ø1.00
40 A	2.80	Ø3.10		
Max current power	ØA±0.1	PCB HOLE ±0.1	PCB HOLE ±0.1	PCB HOLE



spec ref			dr	GREGAR M	2019-01-07	projection 	MM 	size	A2	scale	1:1	
tolerance std			eng	MITHUN PAUL	2019-01-07			ecn no	ELX+32326			
ISO 406 ISO 1101			chr	-	-							
TOLERANCES UNLESS OTHERWISE SPECIFIED			appr	BIJU K PAUL	2019-01-07	product family		-	rel level			
surface  ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	SUB FEMALE DMW EUROPE			dwg no	C01-8639-2300		rev F
		0.XX	±0.1									
		0.XXX	±0.05									
	angular	0°	±2°			mixed power right angled solder						
ISO 1302			cat. no.			-			sheet 1 of 7			

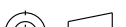
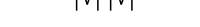


FRONT ACCESSORY	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40	Blank Without	L insert M3 O insert UNC 4.40	V insert UNC 4.40
PCB ACCESSORIES	A Without	A Without	A Without	M Metal brackets	M Metal brackets	M Metal bracket



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

SCALE: 4

dr	GREGAR M	2019-01-07	projection 	MM 	size	A2	scale	1:1				
eng	MITHUN PAUL	2019-01-07			ecn no				ELX+32326			
chr	-	-			rel level							
appr	BIJU K PAUL	2019-01-07	product family				-					
Amphenol FCI			title		SUB FEMALE DMW EUROPE mixed power right angled solder			dwg no		C01-8639-2300	rev	F
			cat. no.		-						sheet 2 of 7	

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS500A30LF	30	200	without	without
D*LxWxS500A30LF	30	200	insert M3	without
D*OxWxS500A30LF	30	200	insert UNC 4.40	without
D*VxWxS500A30LF	30	200	female screw UNC 4.40	without
D*xWxS500H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS500H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS500H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS500H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS500G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS500G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS500G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS500G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS500M30LF	30	200	without	metal bracket
D*LxWxS500M30LF	30	200	insert M3	metal bracket
D*OxWxS500M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxS500M30LF	30	200	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS500A40LF	40	200	without	without
D*LxWxS500A40LF	40	200	insert M3	without
D*OxWxS500A40LF	40	200	insert UNC 4.40	without
D*VxWxS500A40LF	40	200	female screw UNC 4.40	without
D*xWxS500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS500G40LF	40	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS500G40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS500G40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS500M40LF	40	200	without	metal bracket
D*LxWxS500M40LF	40	200	insert M3	metal bracket
D*OxWxS500M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxS500M40LF	40	200	female screw UNC 4.40	metal bracket

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

LAYOUTS
xWx
5W1
11W1
7W2
21W1
17W2
13W3
9W4
25W3
21WA4
27W2
24W7

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS543A30LF	30	500	without	without
D*LxWxS543A30LF	30	500	insert M3	without
D*OxWxS543A30LF	30	500	insert UNC 4.40	without
D*VxWxS543A30LF	30	500	female screw UNC 4.40	without
D*xWxS543H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS543H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS543H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS543H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS543G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS543G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS543G30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS543G30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS543M30LF	30	500	without	metal bracket
D*LxWxS543M30LF	30	500	insert M3	metal bracket
D*OxWxS543M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxS543M30LF	30	500	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS543A40LF	40	500	without	without
D*LxWxS543A40LF	40	500	insert M3	without
D*OxWxS543A40LF	40	500	insert UNC 4.40	without
D*VxWxS543A40LF	40	500	female screw UNC 4.40	without
D*xWxS543H40LF	40	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS543H40LF	40	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS543H40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS543H40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS543G40LF	40	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS543G40LF	40	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS543G40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS543G40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS543M40LF	40	500	without	metal bracket
D*LxWxS543M40LF	40	500	insert M3	metal bracket
D*OxWxS543M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxS543M40LF	40	500	female screw UNC 4.40	metal bracket

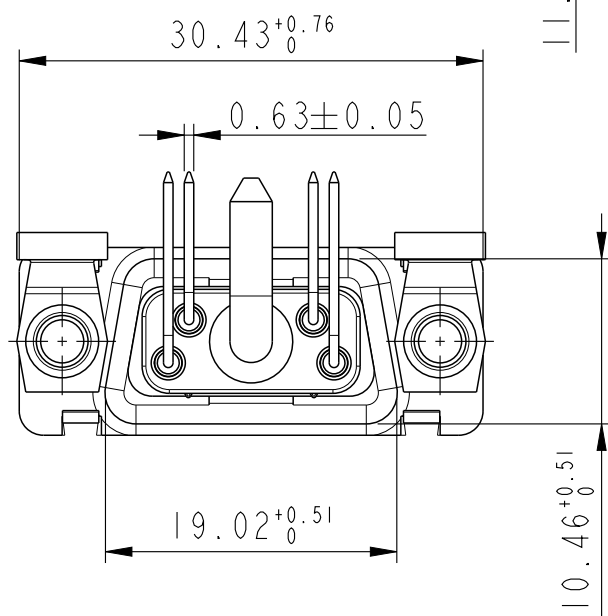
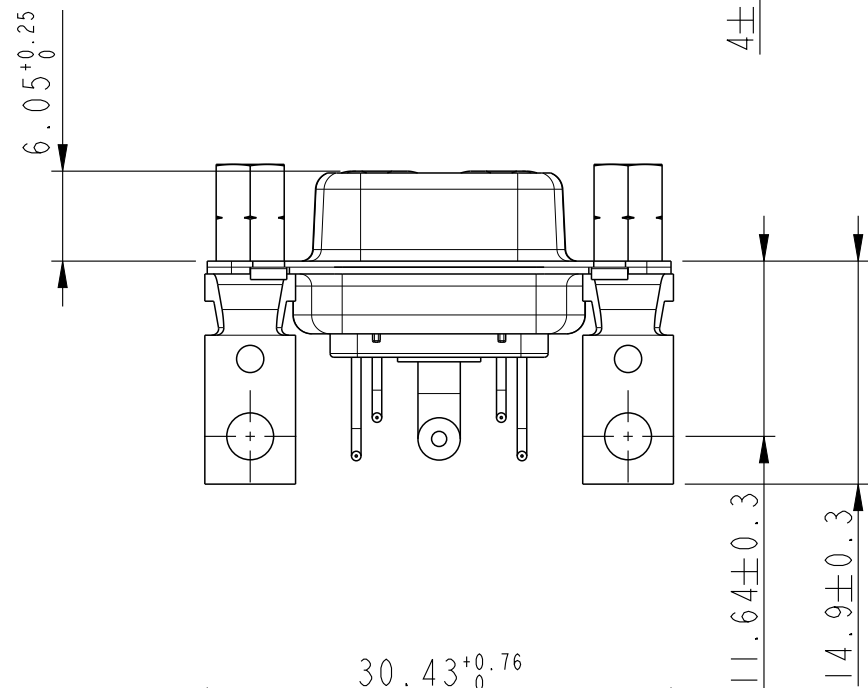
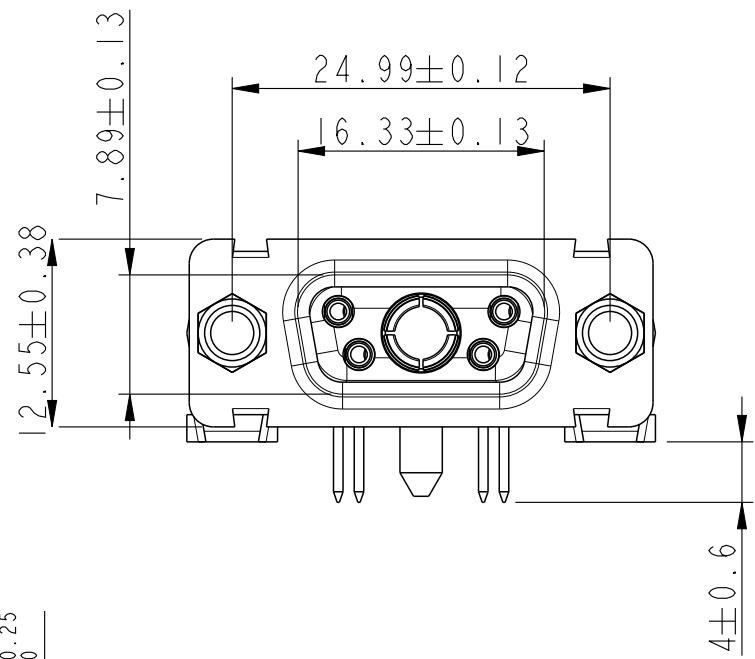
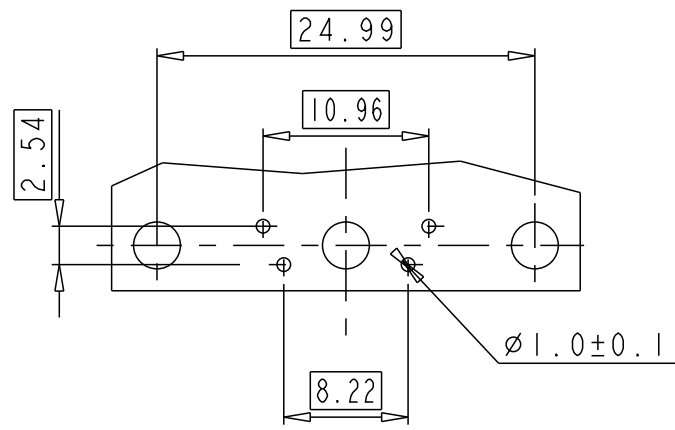
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eng	MITHUN PAUL	2019-01-07			A2	1:1			
chr	-	-			ecn no	ELX+32326			
appr	BIJU K PAUL	2019-01-07			rel level				
		title			SUB FEMALE DMW EUROPE		dwg no	C01-8639-2300	rev
		mixed power right angled solder							
		cat. no.	-					sheet 3 of 7	

Floating signal contacts

5W1

LAYOUT AND CONNECTOR DIMENSIONS

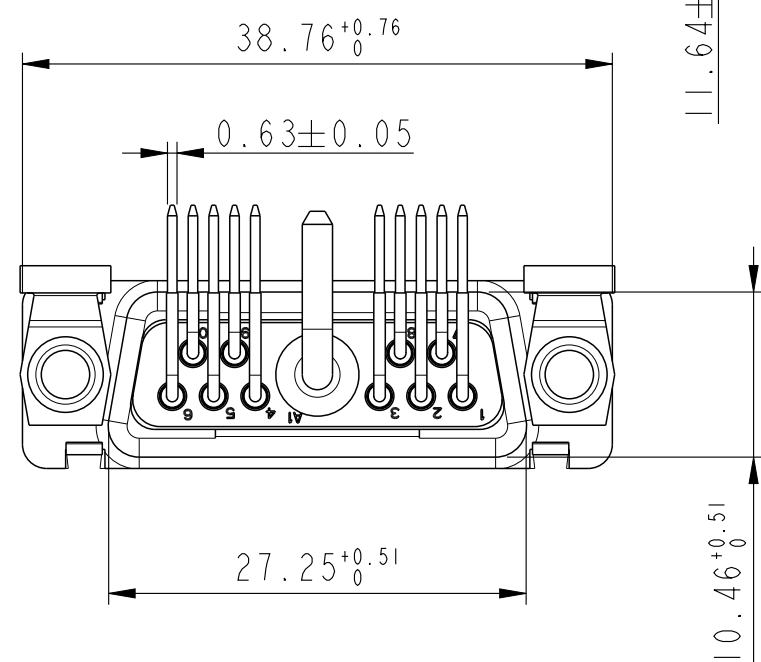
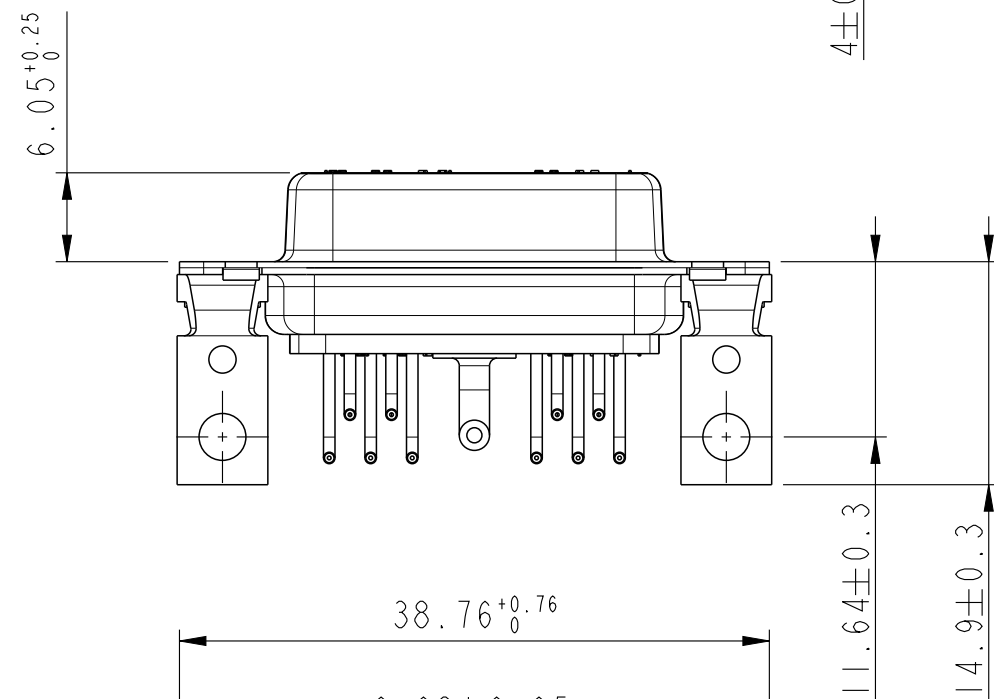
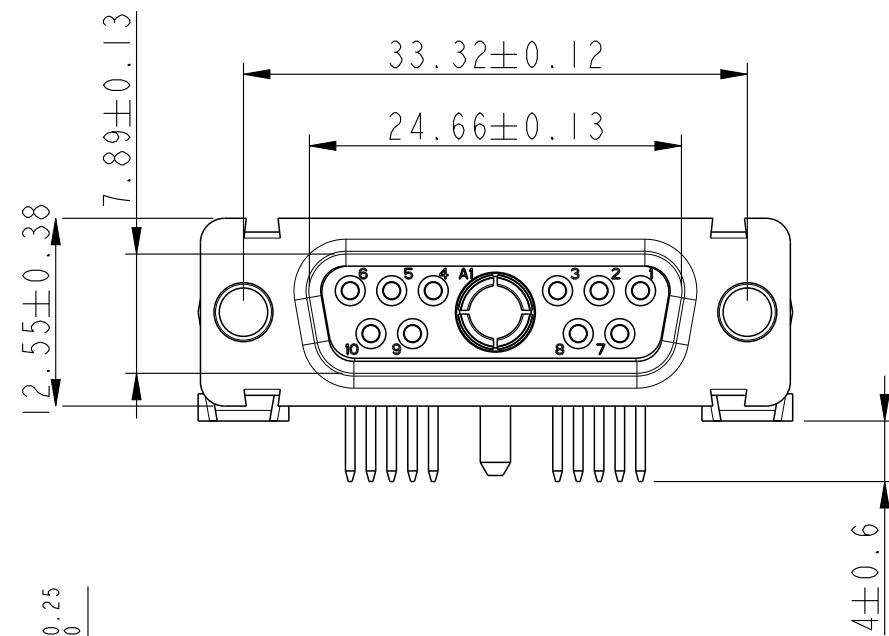
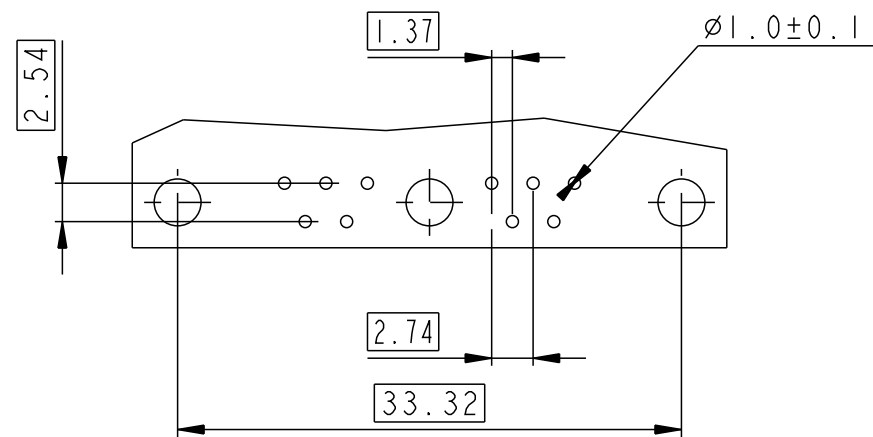
For PCB hole diameters see table I sheet I



11W1

LAYOUT AND CONNECTOR DIMENSIONS

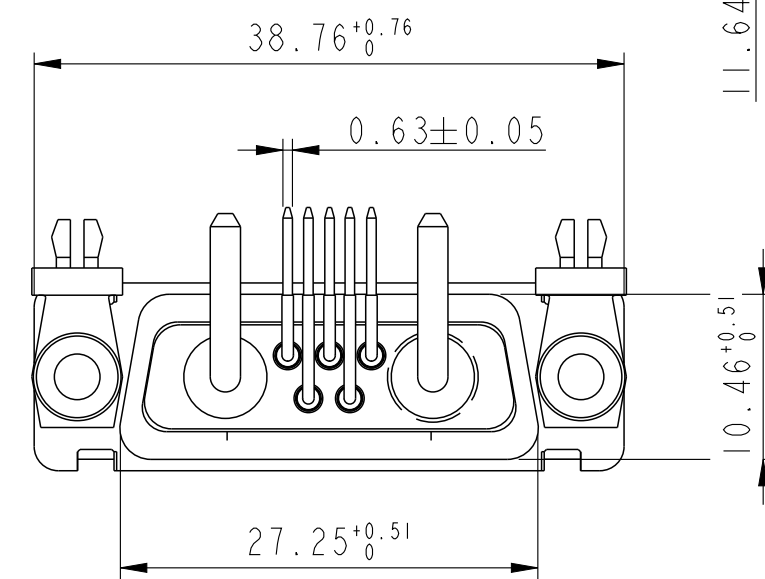
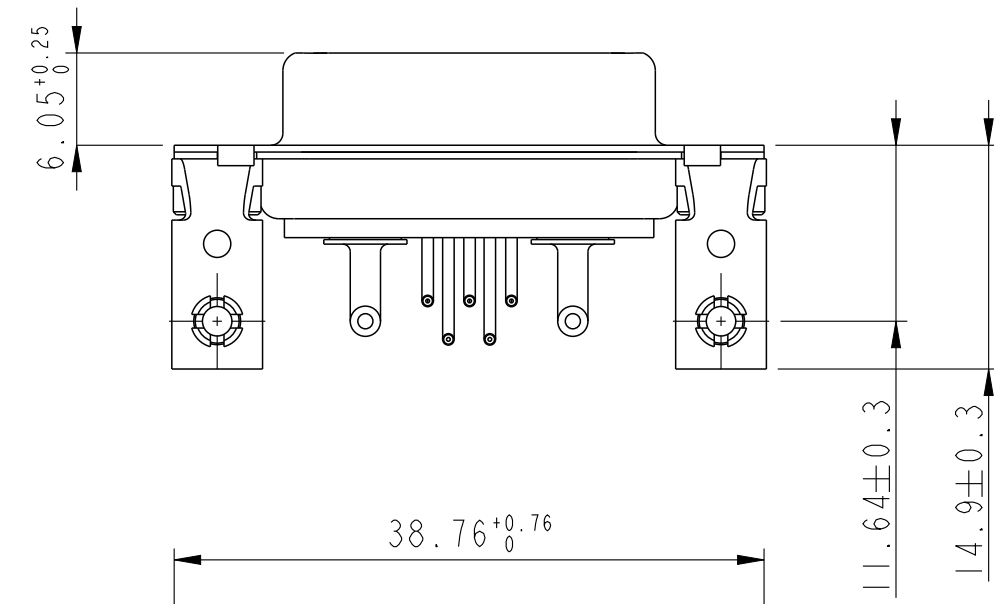
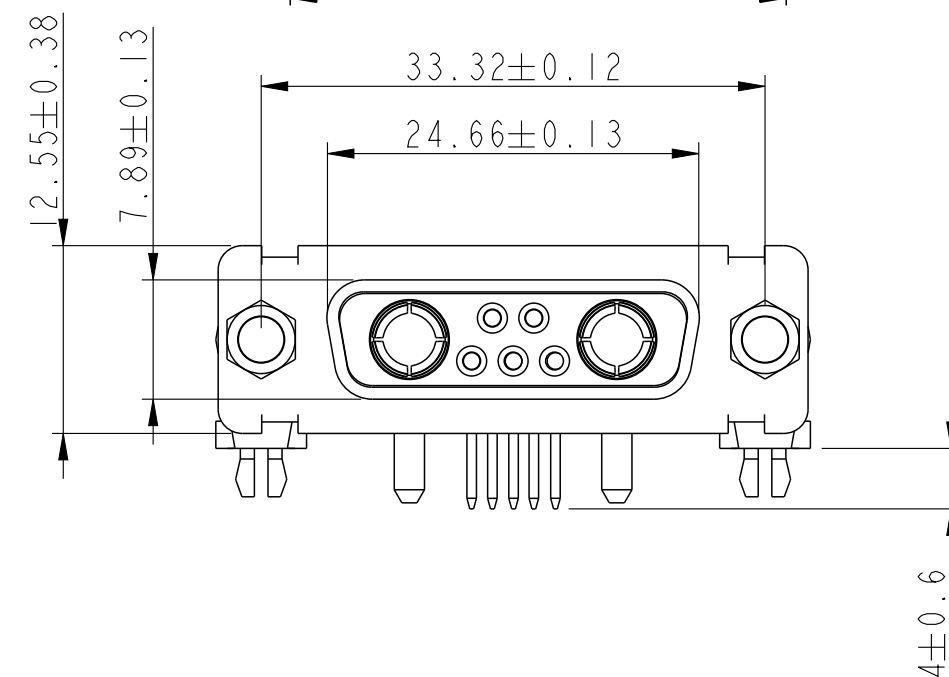
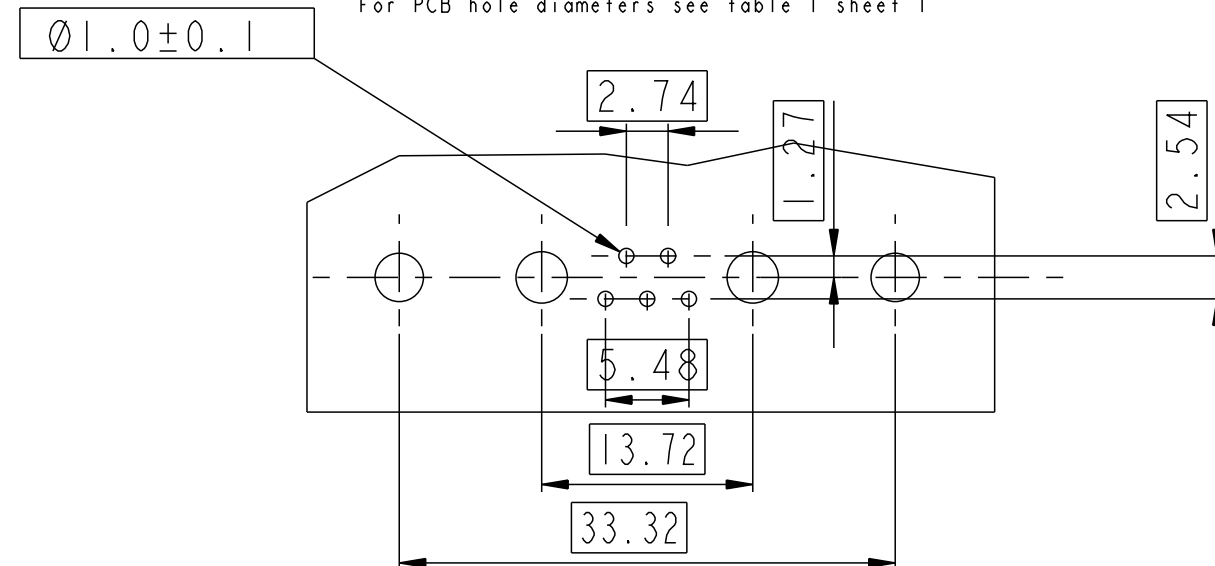
For PCB hole diameters see table I sheet I



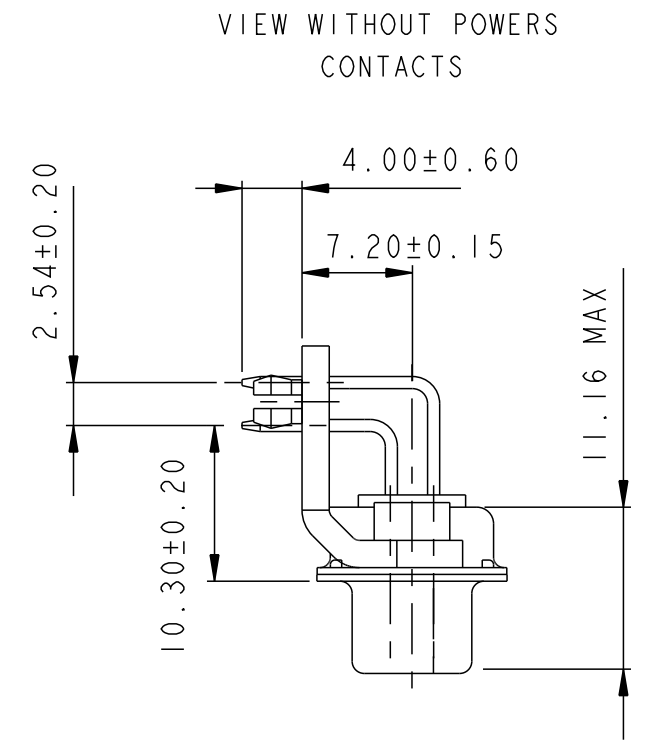
7W2

LAYOUT AND CONNECTOR DIMENSIONS

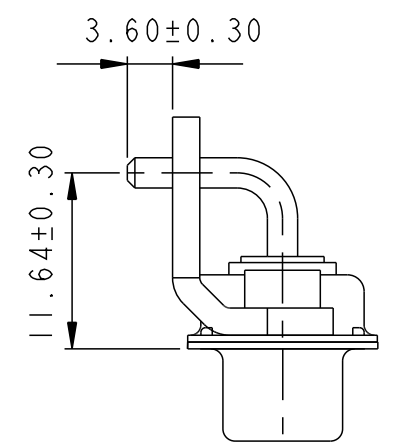
For PCB hole diameters see table I sheet I



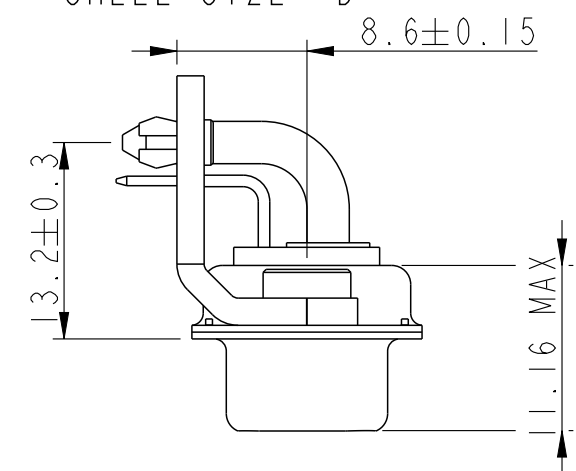
SIDE VIEW FOR ALL LAYOUTS
EXCEPT SIZE "D"



VIEW WITH POWERS
CONTACTS

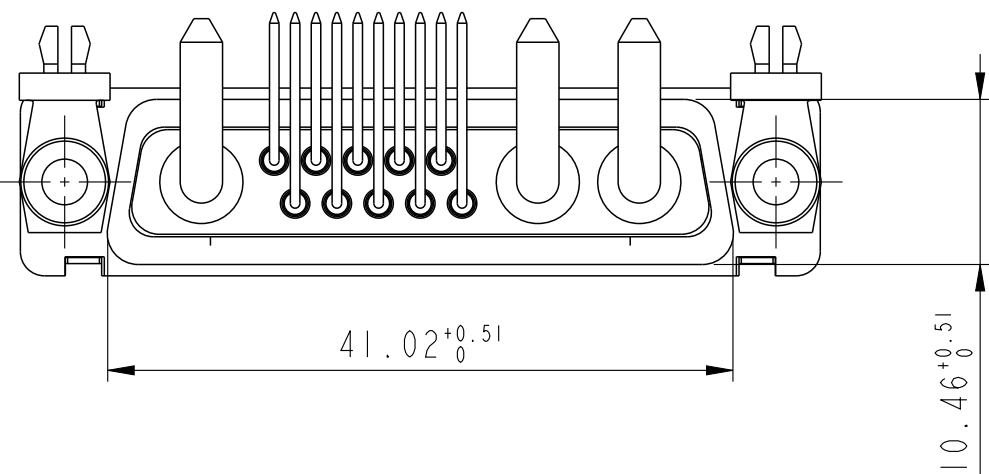
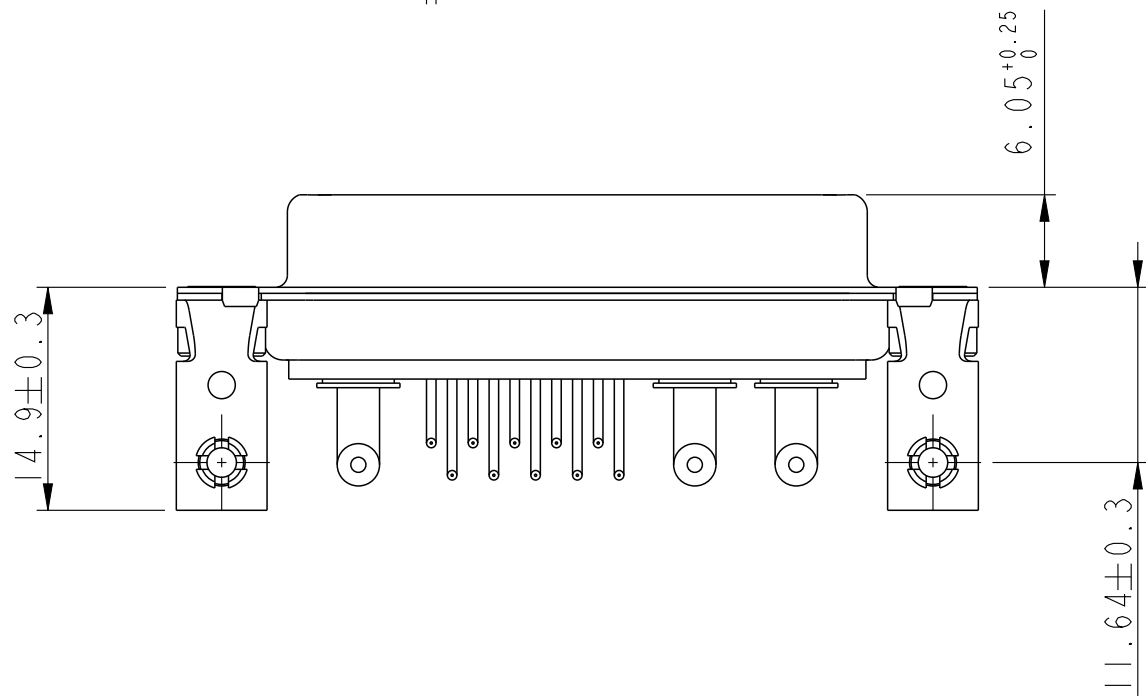
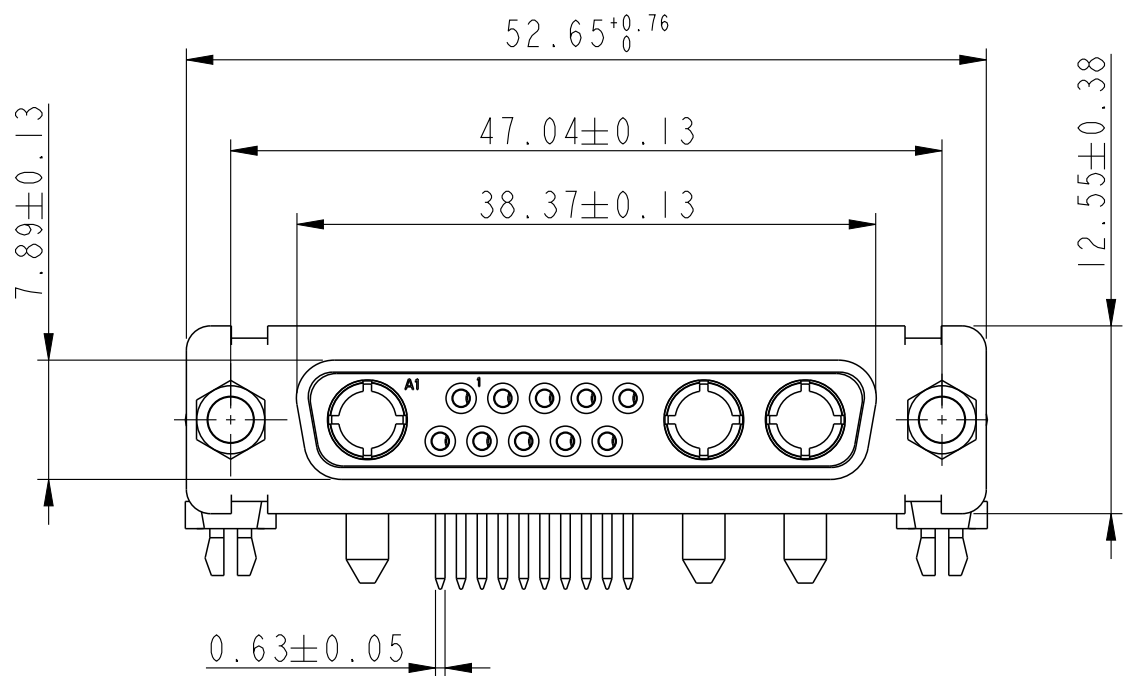
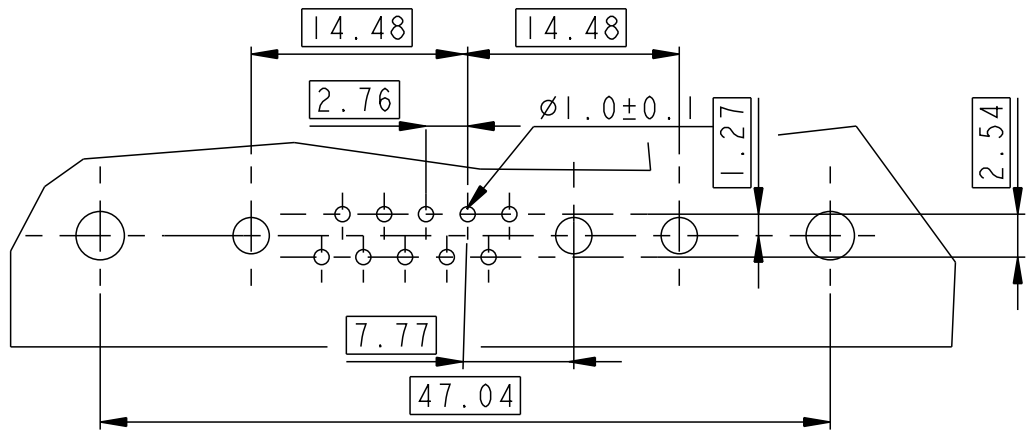


SIDE VIEW FOR LAYOUTS
SHELL SIZE "D"



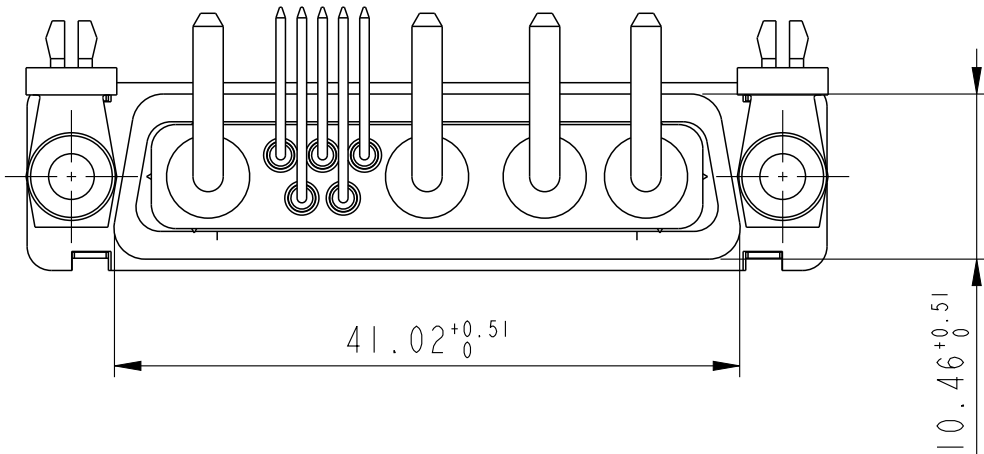
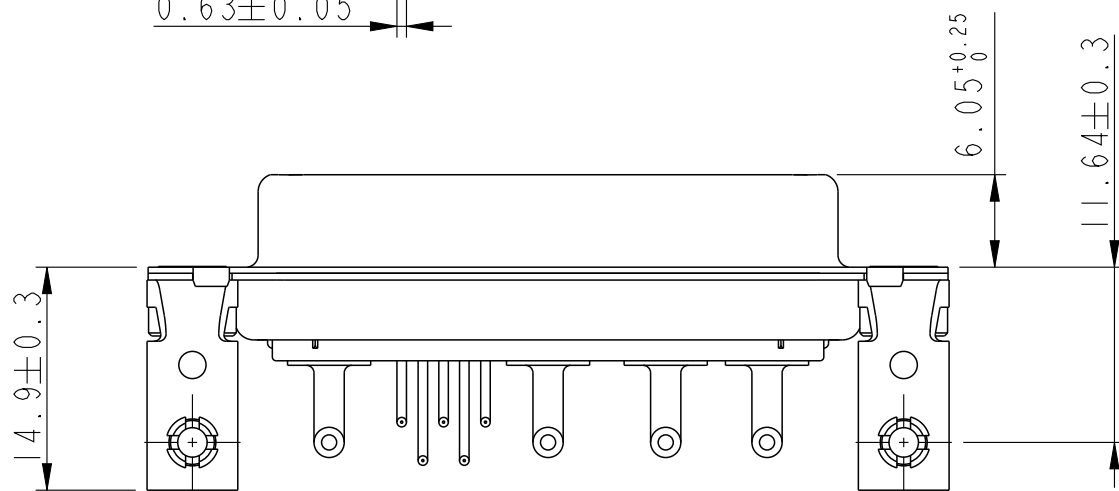
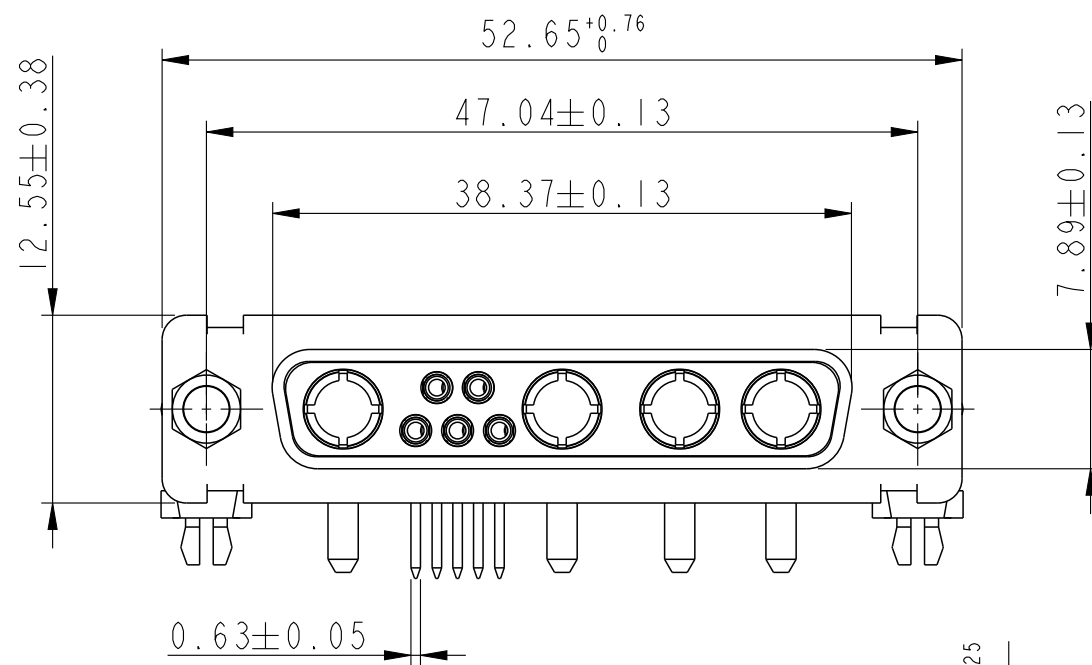
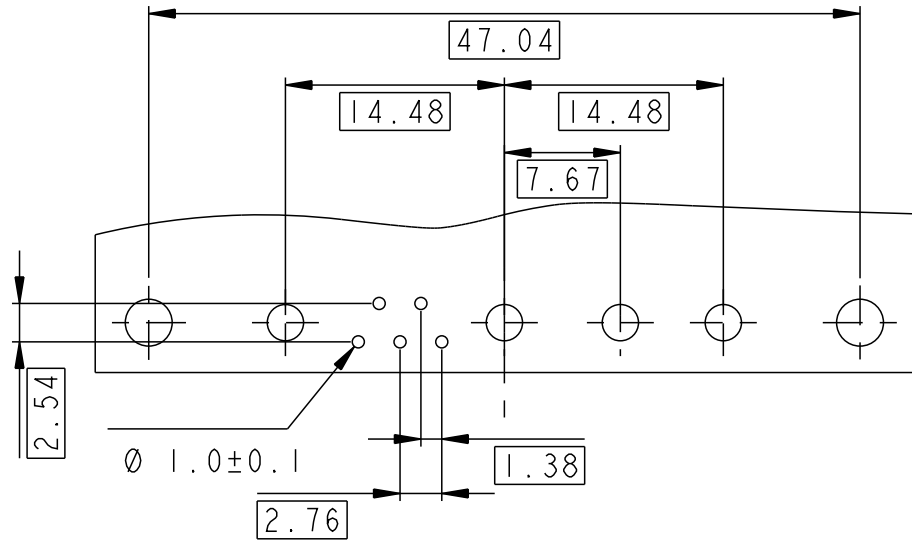
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eng	MITHUN PAUL	2019-01-07				ecn no	ELX+32326			
chr	-	-		product family	-	rel level				
appr	BIJU K PAUL	2019-01-07								
Amphenol FCi		title	SUB FEMALE DMW EUROPE			dwg no		C01-8639-2300		rev
		mixed power right angled solder			F					
		cat. no.	-					sheet 4 of 7		

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



9W4

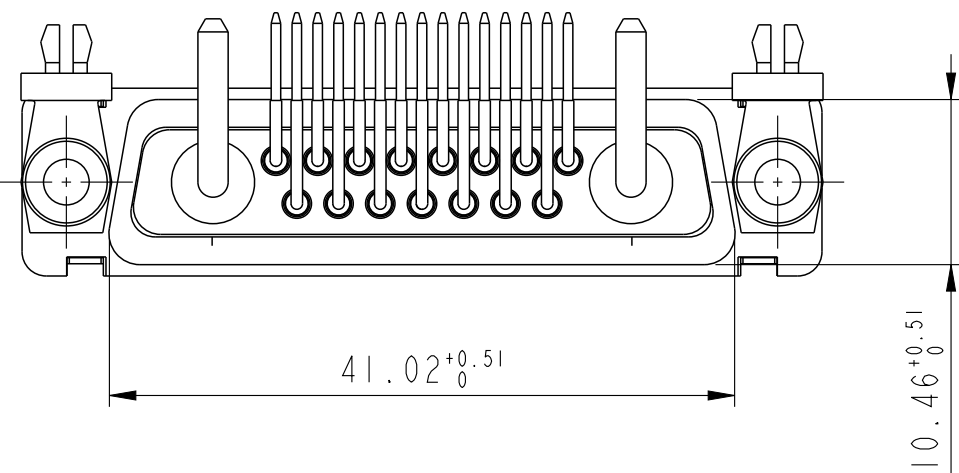
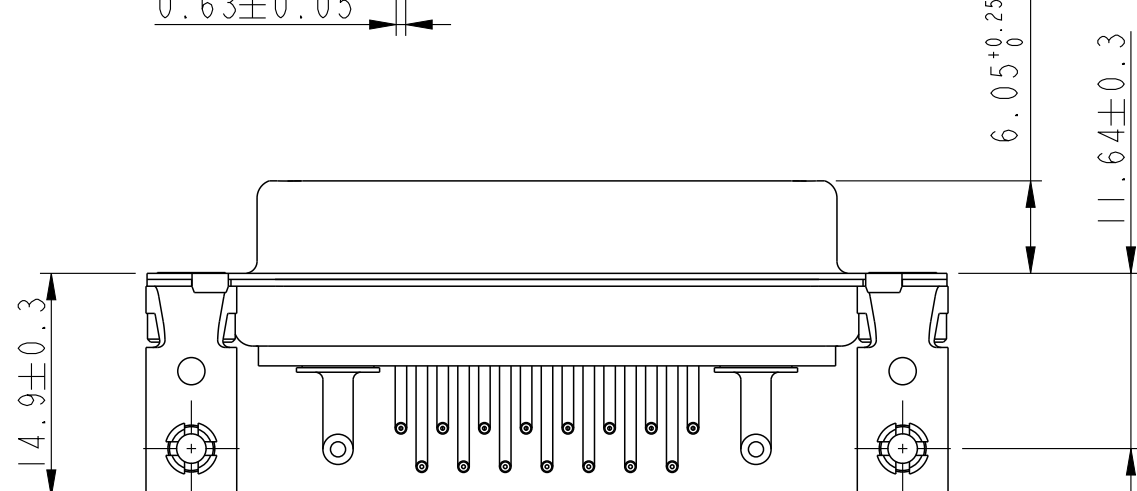
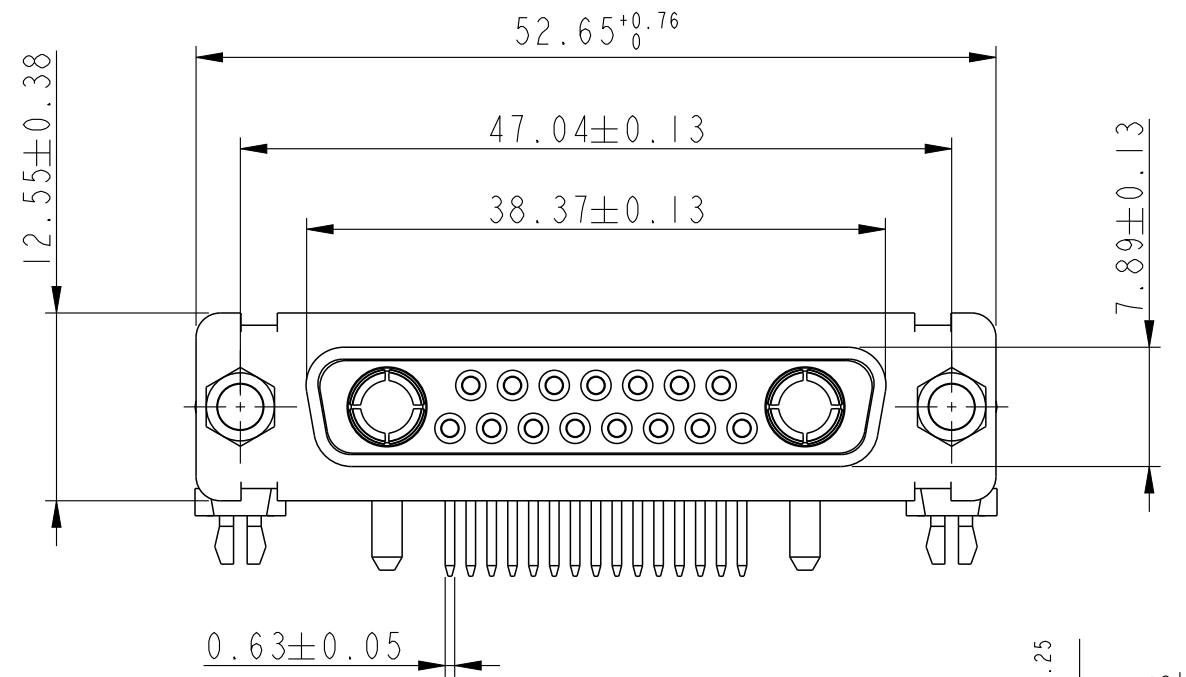
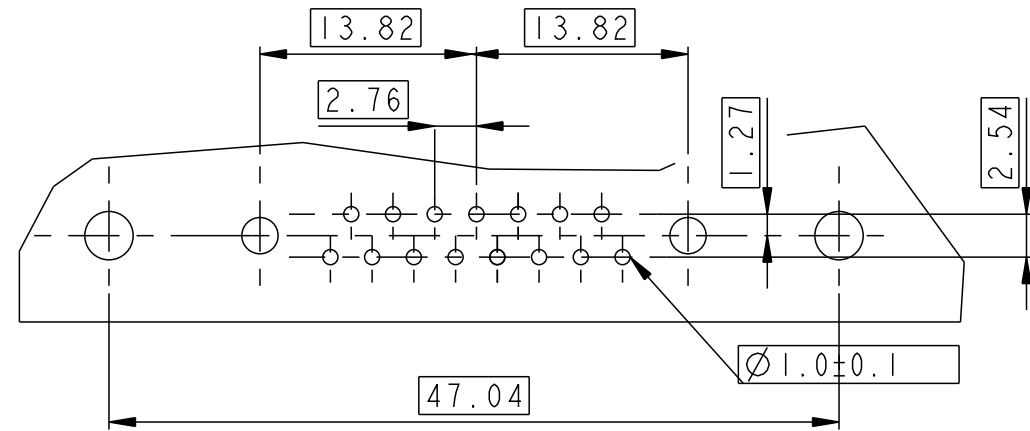
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



Floating signal contacts

17W2

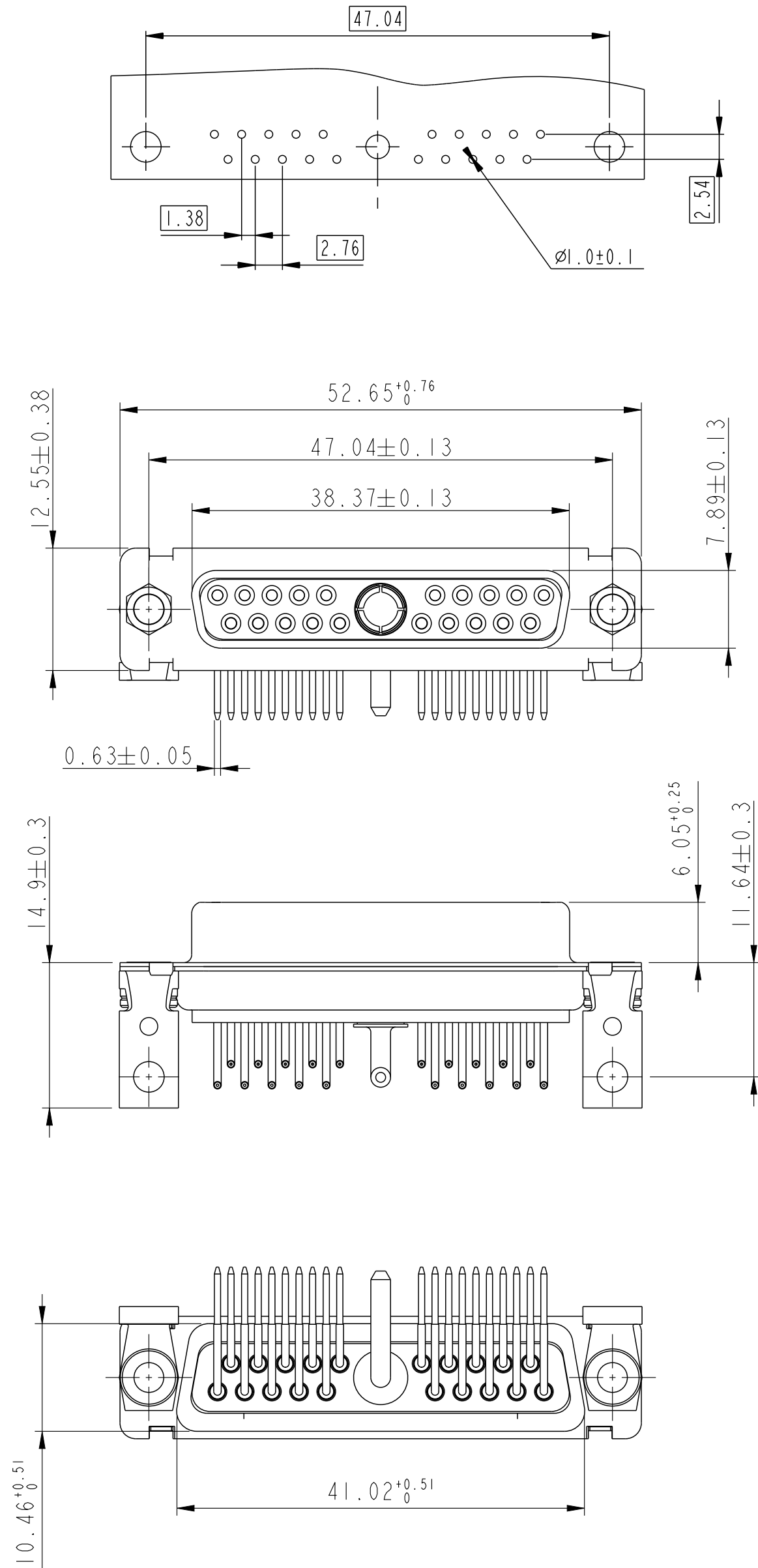
LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table I sheet I



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eng	MITHUN PAUL	2019-01-07			ecn no	ELX+32326			
chr	-	-			rel level				
appr	BIJU K PAUL	2019-01-07	product family		-				
Amphenol FCI		title			C01-8639-2300			rev	
		SUB FEMALE DMW EUROPE						F	
		mixed power right angled solder							
		cat. no.						sheet 5 of 7	

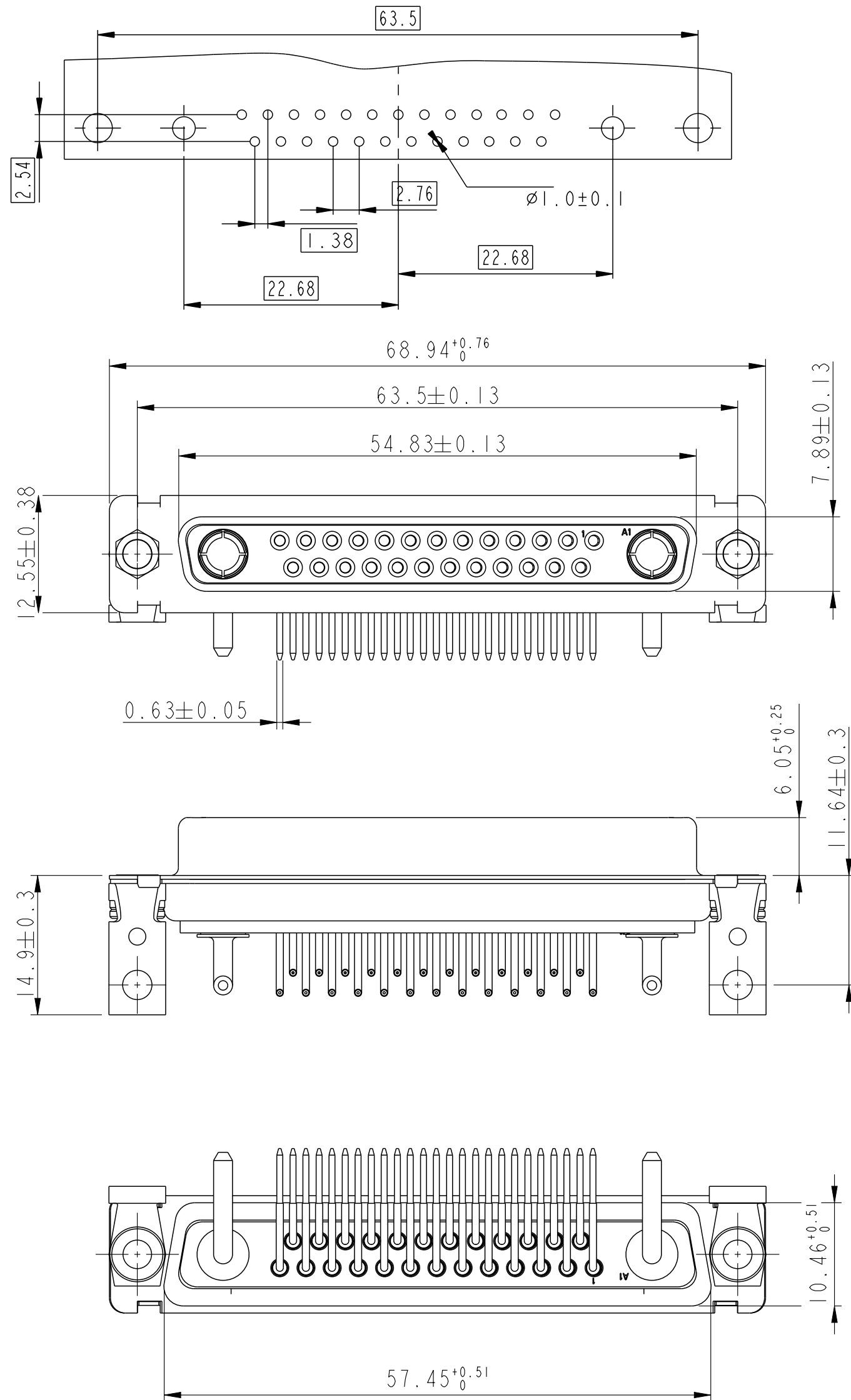
21W1

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

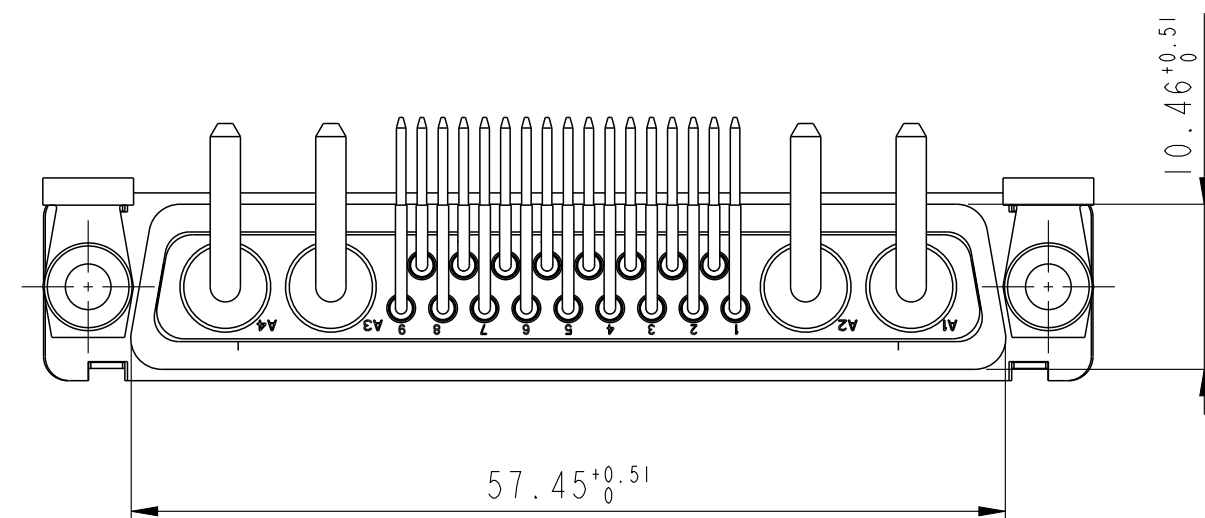
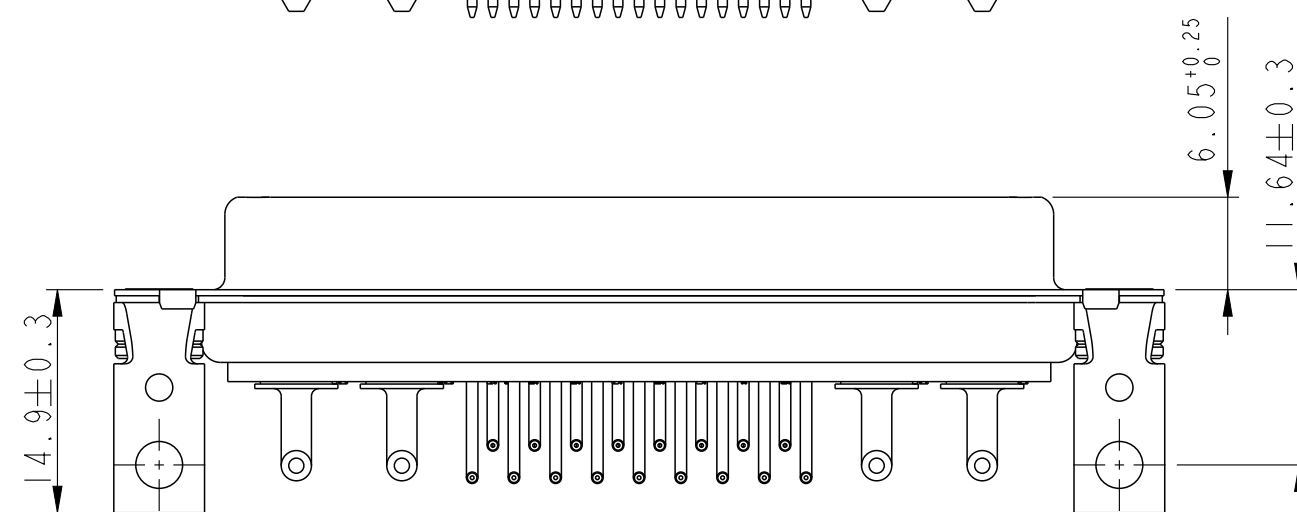
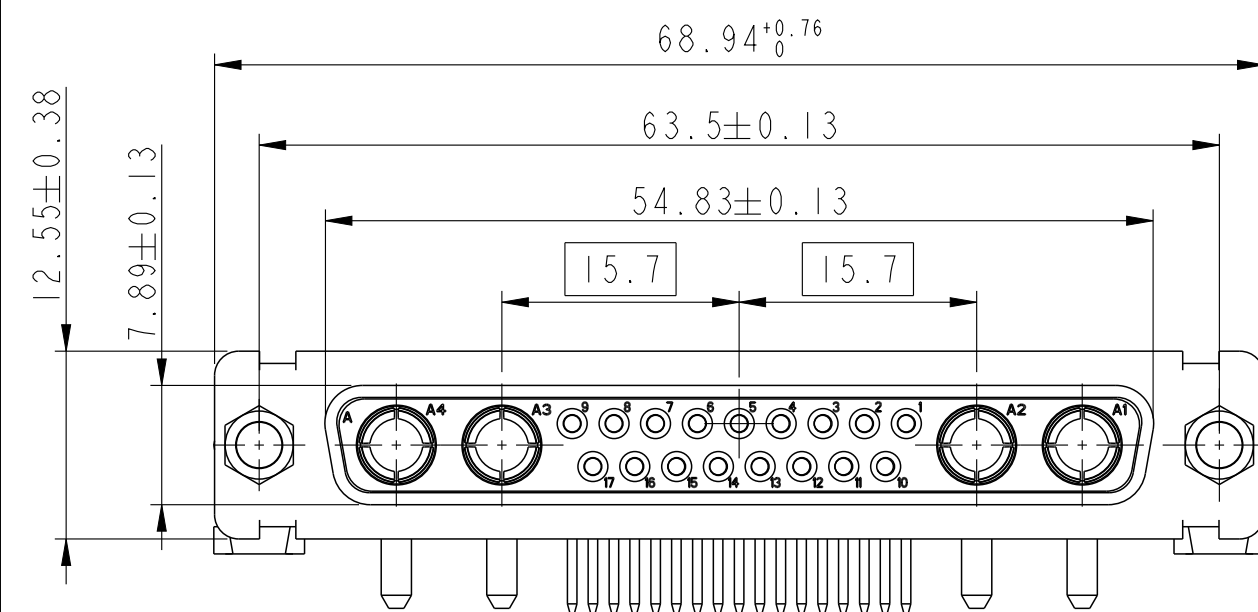
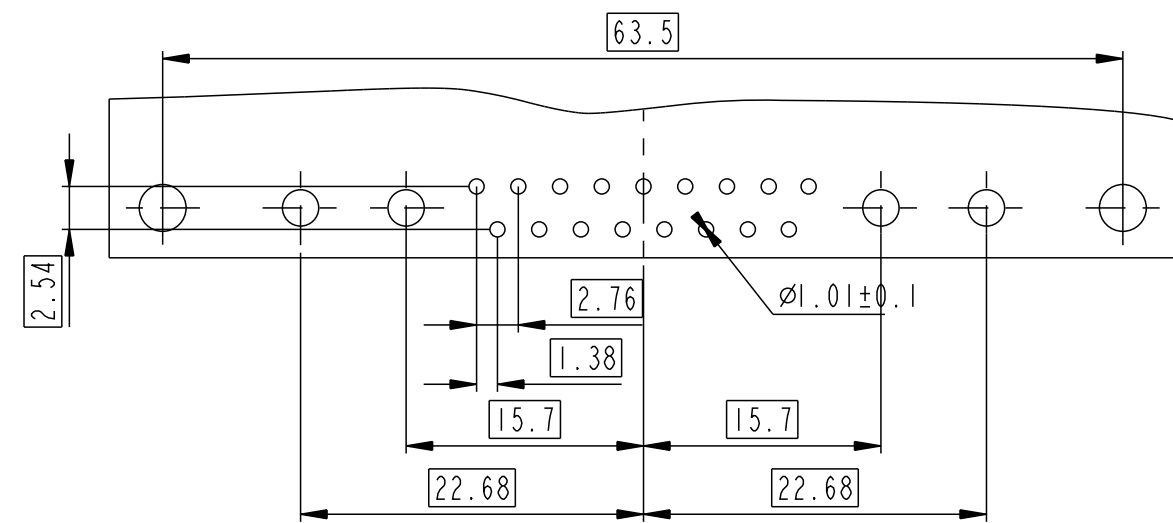


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eng	MITHUN PAUL	2019-01-07			ecn no	ELX+32326			
chr	-	-							
appr	BIJU K PAUL	2019-01-07							product family
Amphenol FCI		title	SUB FEMALE DMW EUROPE			dwg no	C01-8639-2300		rev F
			mixed power right angled solder						
		cat. no.	-			sheet 6 of 7			

21WA4

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

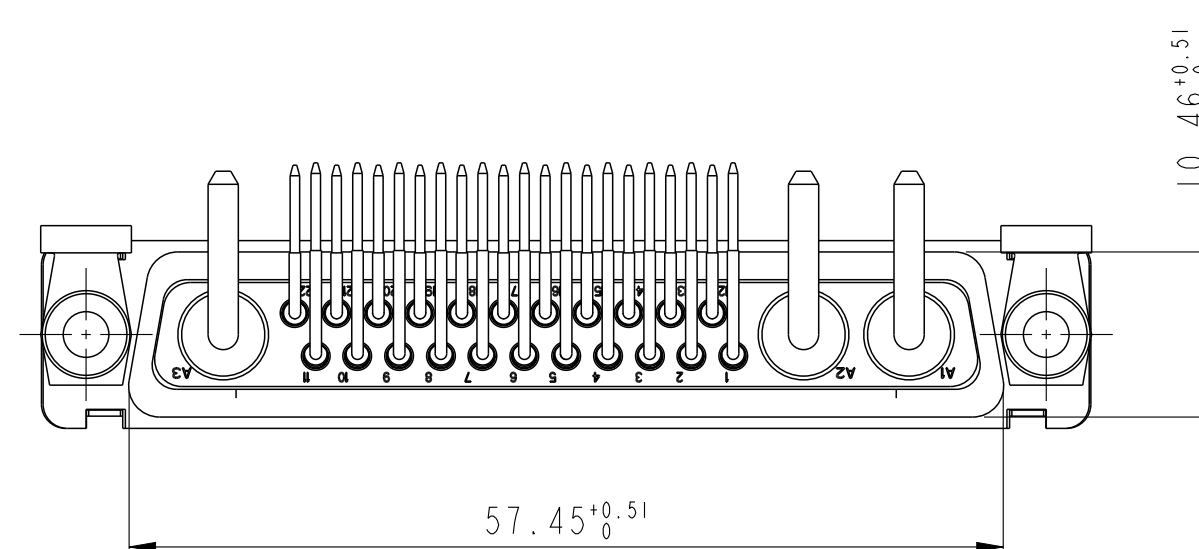
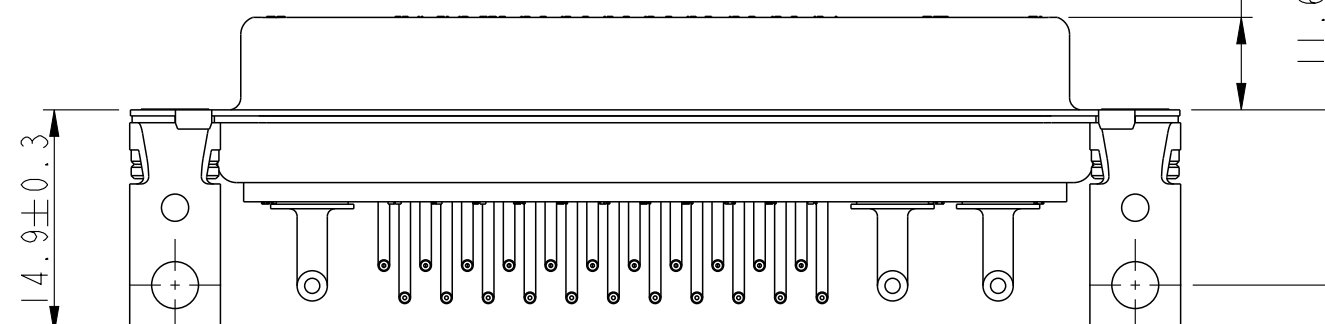
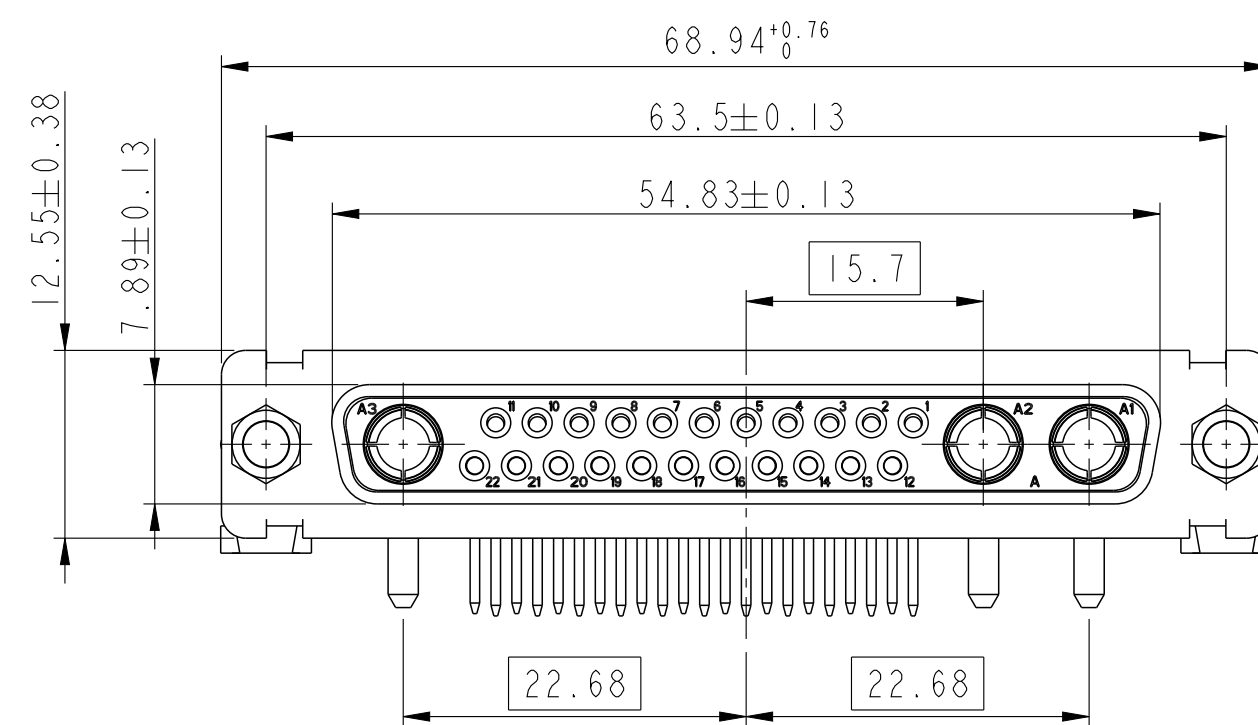
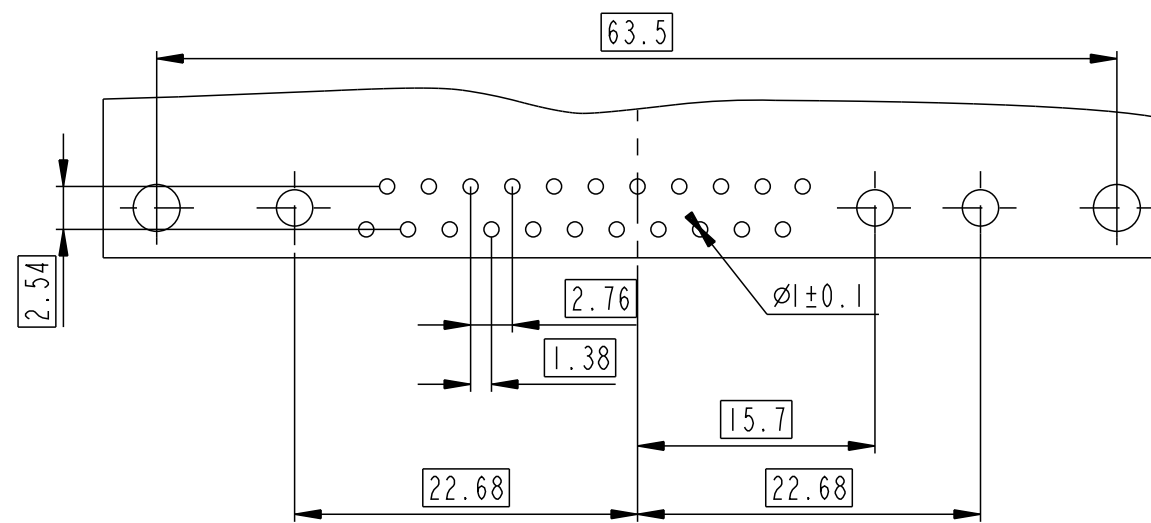
For PCB hole diameters see table I sheet I



25W3

LAYOUT AND CONNECTOR DIMENSIONS
For PCB hole diameters see table 1 sheet 1

For PCB hole diameters see table 1 sheet 1

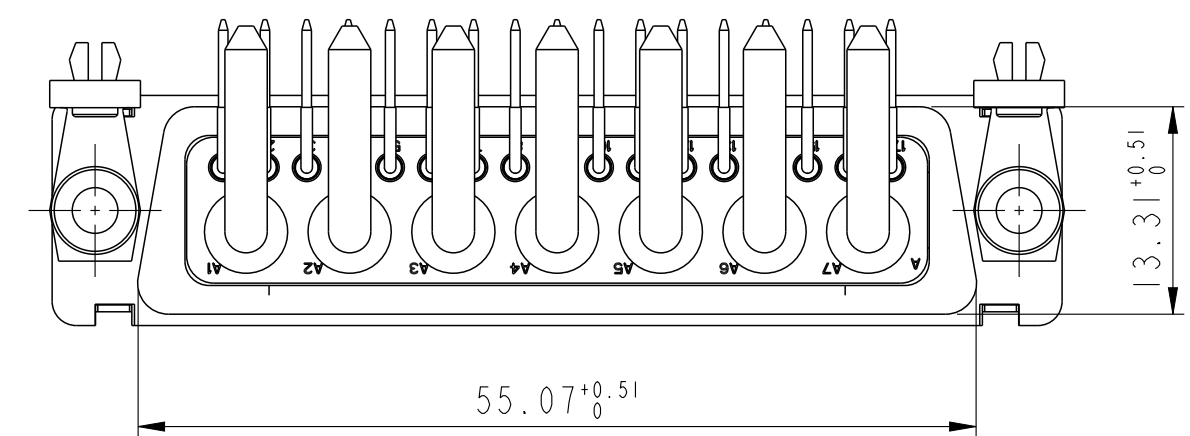
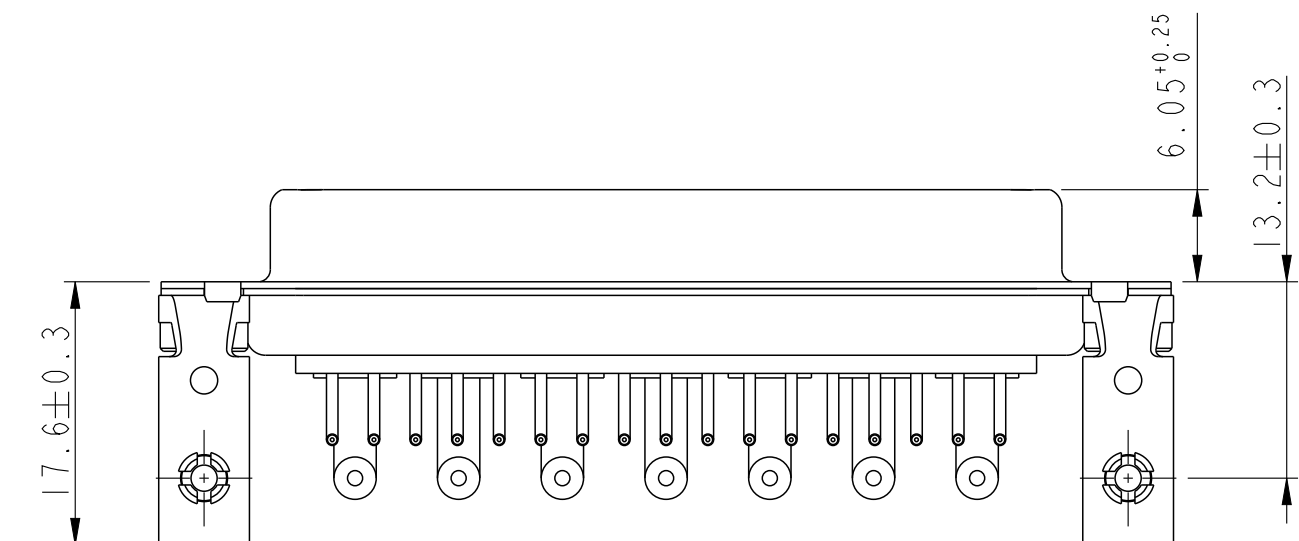
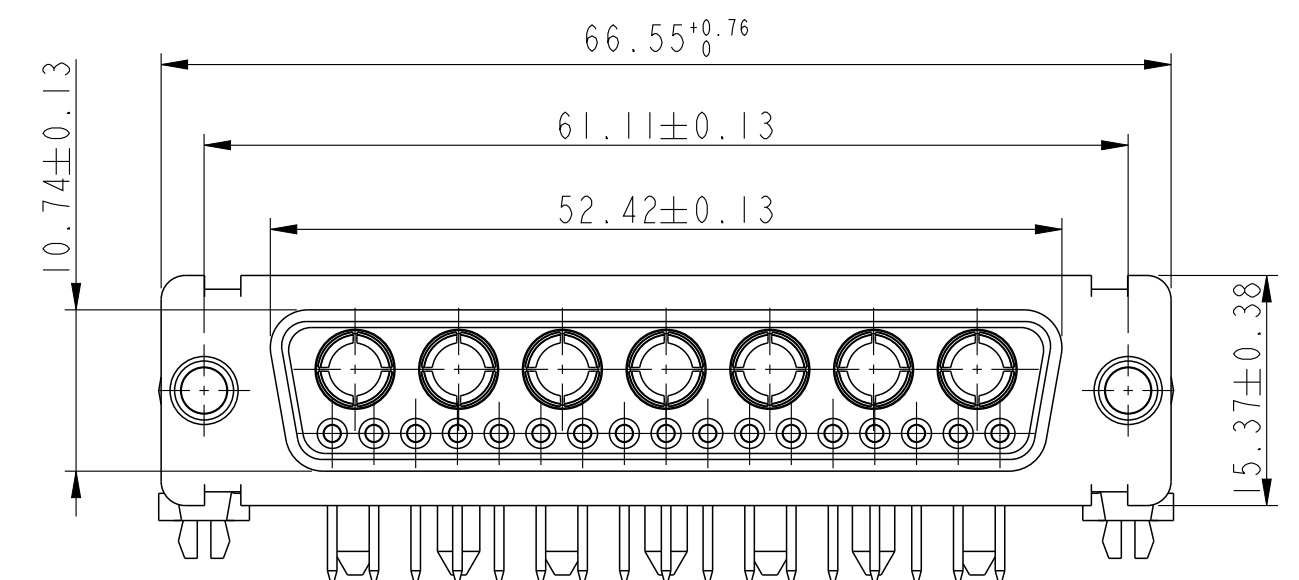
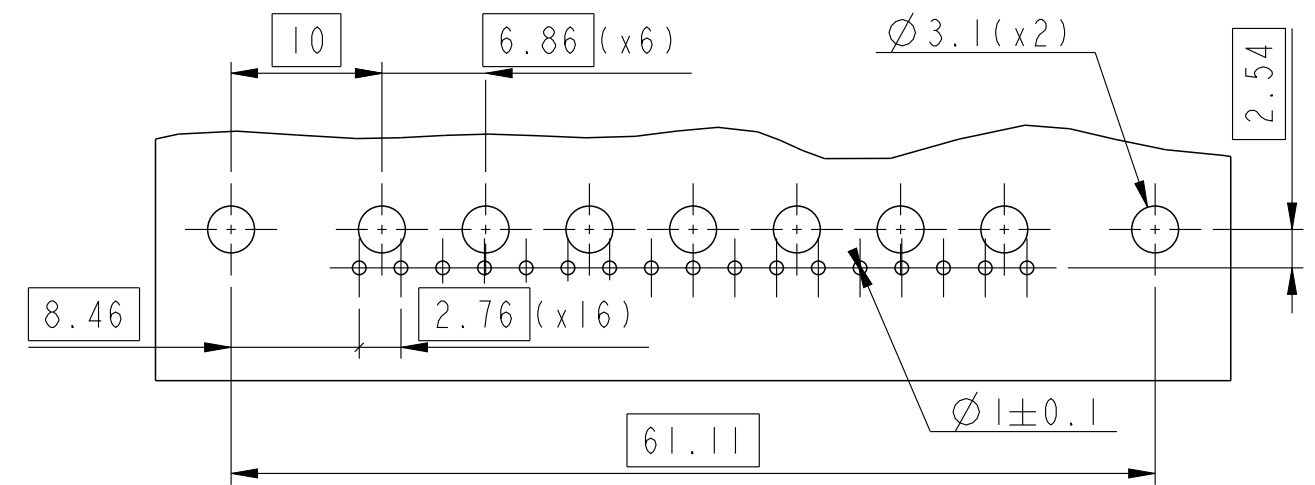


24W7

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

For PCB hole diameters see table 1 sheet 1



dr	GREGAR M	2019-01-07			size	scale
eng	MITHUN PAUL	2019-01-07			A2	1:1
chr	-	-			ecn no	ELX-4-32326
appr	BIJU K PAUL	2019-01-07	product family	-	rel level	
		SUB FEMALE DMW EUROPE mixed power right angled solder			dwg no C01-8639-2300	rev F

Mouser Electronics

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[FCI / Amphenol:](#)

[DAL7W2S500M40LF](#) [DB13W3S500G40LF](#) [DBO17W2S500G30LF](#) [DBV13W3S500G30LF](#) [DBV17W2S500G30LF](#)
[DC21WA4S500G30LF](#) [DCV21WA4S543H30LF](#) [DBV13W3S543H40LF](#) [DAO7W2S500G40LF](#) [DCL21WA4S500G30LF](#)
[DCO27W2S543G30LF](#) [DBV17W2S500M30LF](#) [DA7W2S500M40LF](#) [DA7W2S500H30LF](#) [DAL7W2S543M40LF](#)
[DB17W2S500G30LF](#) [DB17W2S500G40LF](#) [DB17W2S543A30LF](#) [DB9W4S500G30LF](#) [DB9W4S500G40LF](#)
[DB9W4S543G30LF](#) [DB9W4S543G40LF](#) [DBL17W2S543A30LF](#) [DBO9W4S500G30LF](#) [DBO9W4S500G40LF](#)
[DBV13W3S500M40LF](#) [DBV9W4S500M40LF](#) [DC21WA4S500G40LF](#) [DCV25W3S500M40LF](#) [DAO7W2S543H30LF](#)
[DBO13W3S543H30LF](#) [DAL7W2S543G40LF](#) [DBV9W4S500H30LF](#) [DA7W2S500G30LF](#) [DBO21W1S500G30LF](#)
[DBO17W2S500M40LF](#) [DCL21WA4S543M40LF](#) [DBV17W2S500G40LF](#) [DAL7W2S543M30LF](#) [DBV9W4S500P30LF](#)