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 (POWER CONTACT)

-CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m Maximum

- Female screw : 0.5 N.m Maximum

DBL13W3S700G30LF

Series

Shell size: **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 sheets)

Contacts

- **S** : Socket

Termination type

- **7** Right angle/USA

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** : Not fitted with power contact (signal contacts always fitted)
- **30** : Fitted with power contacts 30 Amp.

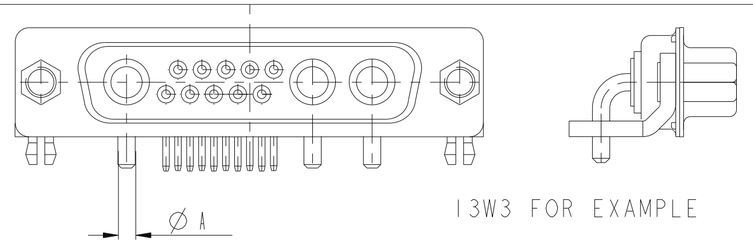
See note RoHS

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- The housing will whistand 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

TABLE 1:PCB HOLE DIAMETERS

	POWER CONTACTS		ACCESSORIES	SIGNAL CONTACTS
30 A	2.00	Ø2.40	ø3.10	ø1.00
Max current power	ØA±0.10	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



13W3 FOR EXAMPLE

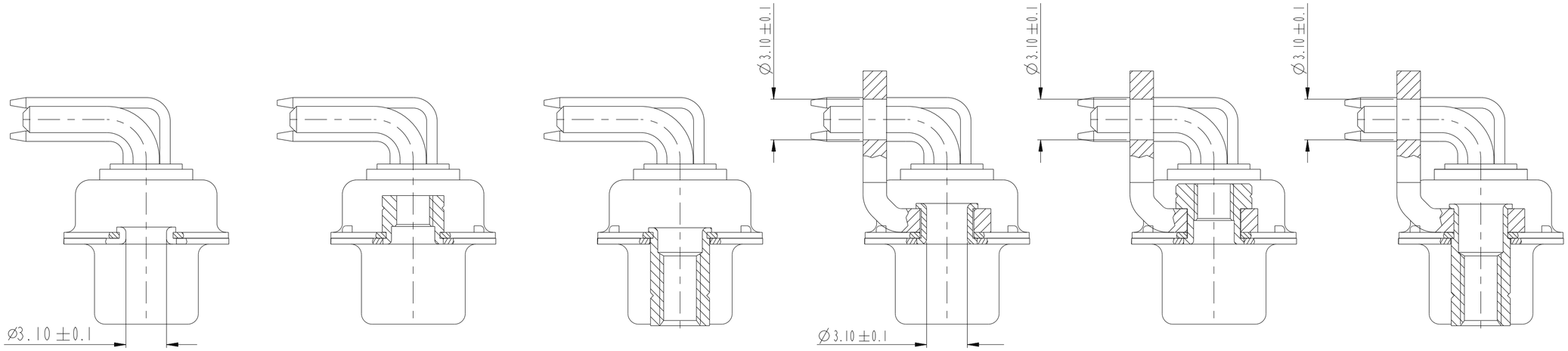
spec ref			dr	1, Product Eng	2015/06/12	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Paul Mithun	2019/02/20		
			chr	-	-		
			appr	K-Paul Biju	2019/02/20	product family	-
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title	SUB FEMALE DW US foot print mixed power right angled solder	dwg no C01-8639-2301C
		0.XX	±0.10				
		0.XXX	±±0.05				
	angular	0°	±2°			cat. no. -	Product - Customer Drw

size A2 | scale 1:1 | ecn no ELX-I-32325-2 | rel level **Released** | rev **E** | sheet 1 of 6

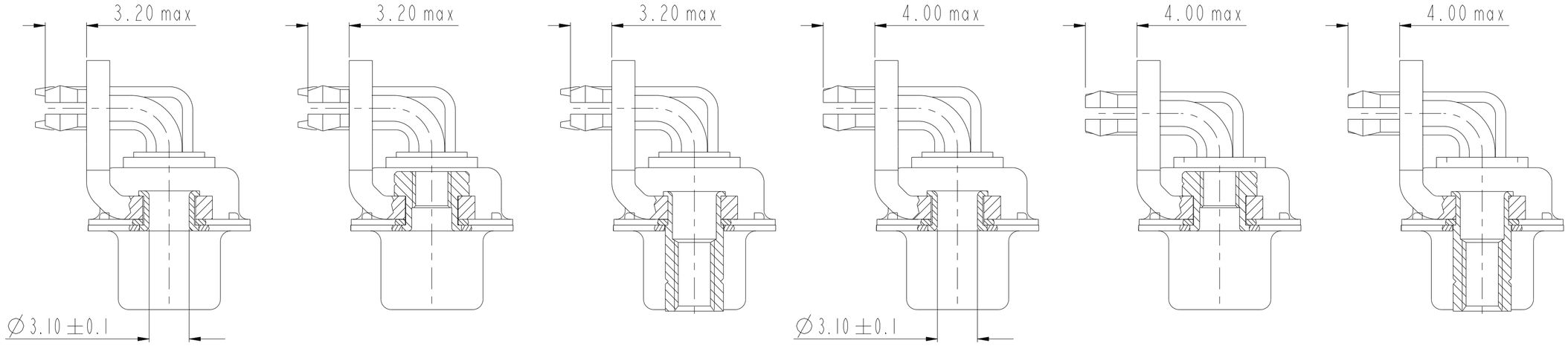
© 2016 AFCI

Creo File - REV E - 2016-02-12

PDS: Rev :E STATUS:Released Printed: Feb 20, 2019



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

© 2016 AFCI

spec ref				dr	1, Product Eng	2015/06/12	projection
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Paul Mithun	2019/02/20	mm
				chr	-	-	size A2 / scale 1:1
				appr	K-Paul Biju	2019/02/20	ecn no ELX-I-32325-2
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title: SUB FEMALE DW US foot print mixed power right angled solder		product family - / rel level Released
		0.XX	±0.10				dwg no C01-8639-2301C / rev E
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 2 of 6

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS700A30LF	30	200	without	without
D*LxWxS700A30LF	30	200	insert M3	without
D*OxWxS700A30LF	30	200	insert UNC 4.40	without
D*VxWxS700A30LF	30	200	female screw UNC 4.40	without
D*xWxS700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS700M30LF	30	200	without	metal bracket
D*LxWxS700M30LF	30	200	insert M3	metal bracket
D*OxWxS700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxS700M30LF	30	200	female screw UNC 4.40	metal bracket

shell size *	LAYOUTS xWx
A	1 1W1
A	7W2
B	2 1W1
B	1 7W2
B	1 3W3
C	25W3
C	2 1WA4
C	27W2

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS743A30LF	30	500	without	without
D*LxWxS743A30LF	30	500	insert M3	without
D*OxWxS743A30LF	30	500	insert UNC 4.40	without
D*VxWxS743A30LF	30	500	female screw UNC 4.40	without
D*xWxS743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS743G30LF	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*xWxS743M30LF	30	500	without	metal bracket
D*LxWxS743M30LF	30	500	insert M3	metal bracket
D*OxWxS743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxS743M30LF	30	500	female screw UNC 4.40	metal bracket

© 2016 AFCI

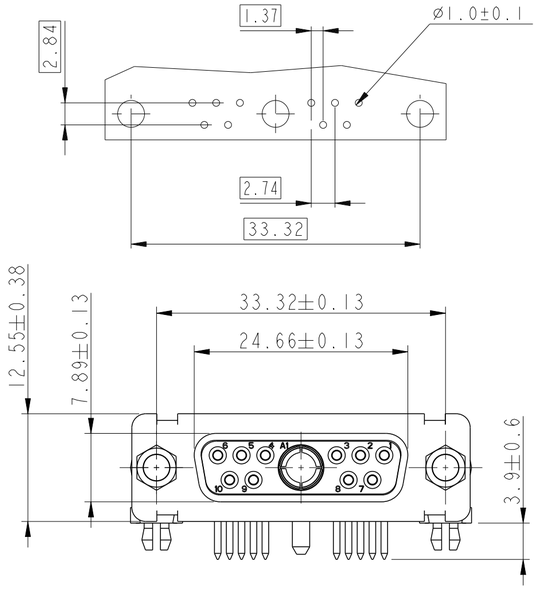
spec ref			dr	1, Product Eng	2015/06/12	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Paul Mithun	2019/02/20		
			chr	-	-		
			appr	K-Paul Biju	2019/02/20	product family	-
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title	SUB FEMALE DW US foot print mixed power right angled solder	
		0.XX	±0.10				
		0.XXX	±0.05				
	angular	0°	±2°		cat. no.	-	Product - Customer Drw

size	scale	dwg no	rev
A2	1:1	C01-8639-2301C	E
ecn no	ELX-I-32325-2		
rel level	Released		
sheet 3 of 6			

11W1

LAYOUT AND CONNECTOR DIMENSIONS

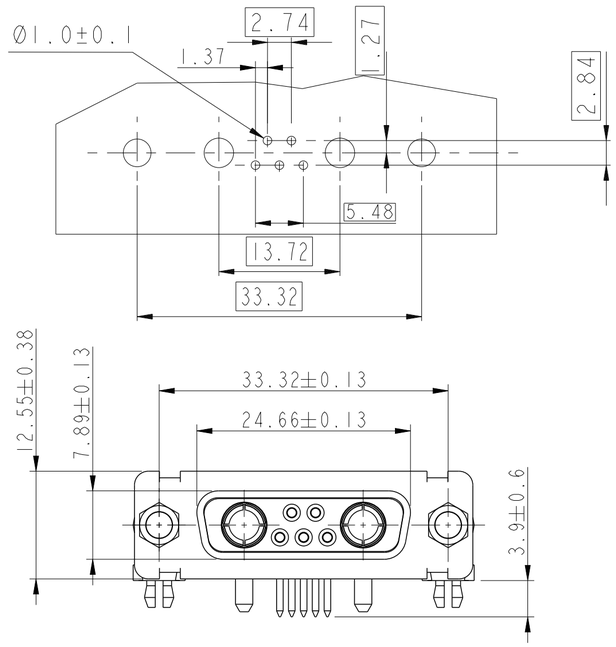
For PCB hole diameters see table 1 sheet 1



7W2

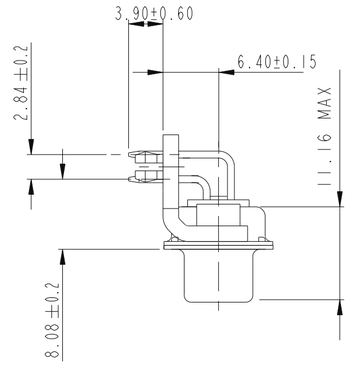
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

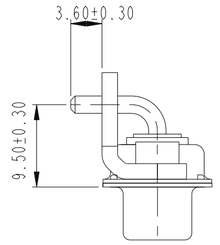


SIDE VIEW FOR ALL LAYOUTS

VIEW WITHOUT POWERS CONTACTS



VIEW WITH POWERS CONTACTS



© 2016 AFCI

spec ref				dr	1, Product Eng	2015/06/12	projection: mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Paul Mithun	2019/02/20	size: A2 / scale: 2:1
				chr	-	-	ecn no: ELX-I-32325-2
				appr	K-Paul Biju	2019/02/20	product family: - / rel level: Released
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title: SUB FEMALE DW US foot print mixed power right angled solder		dwg no: C01-8639-2301C / rev: E
		0.XX	±0.10				
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 4 of 6

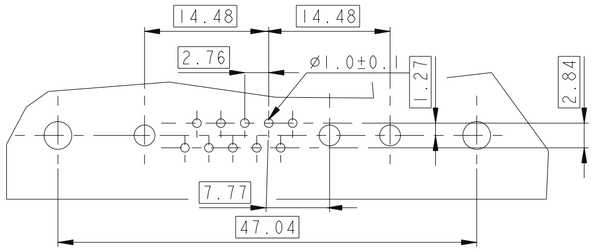
Creo File - REV E - 2016-02-12

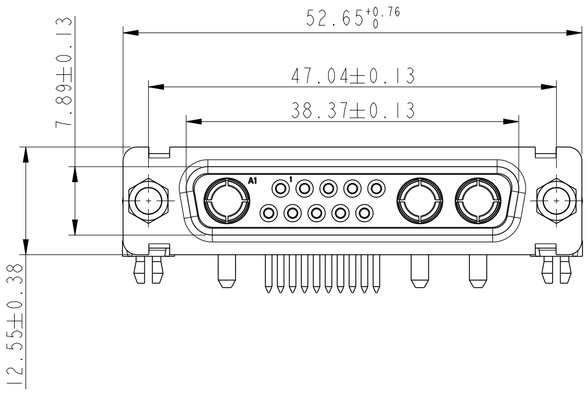
PDS: Rev :E | STATUS: Released | Printed: Feb 20, 2019

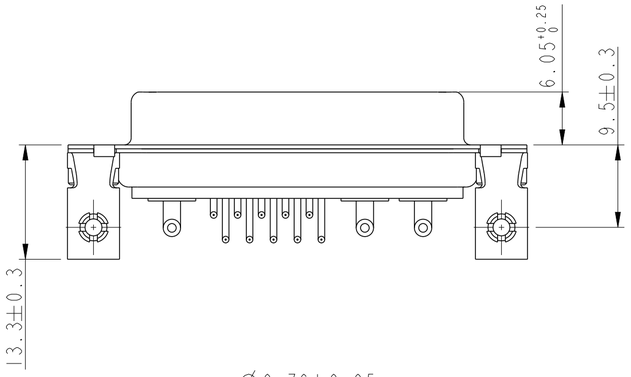
13W3

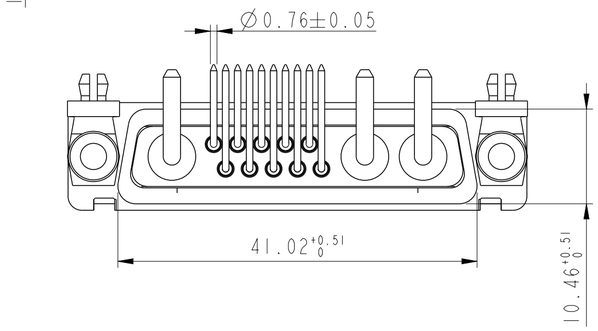
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





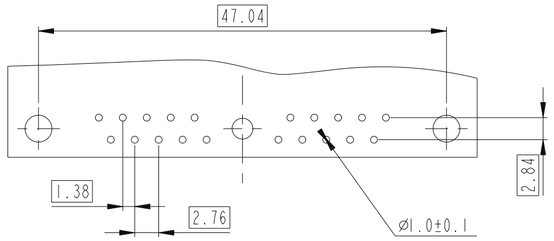


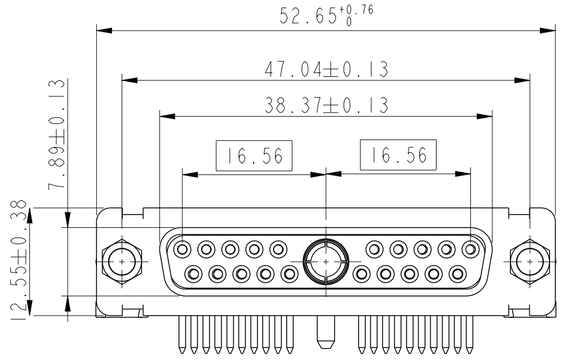


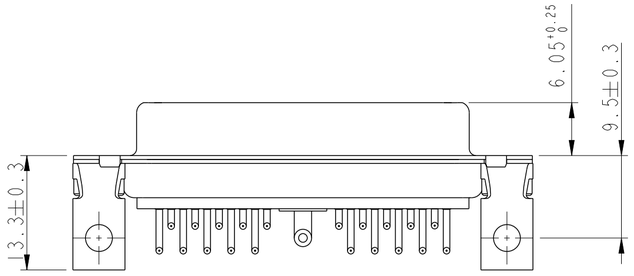
21W1

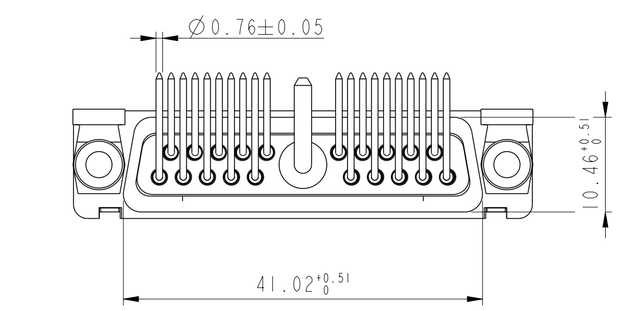
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





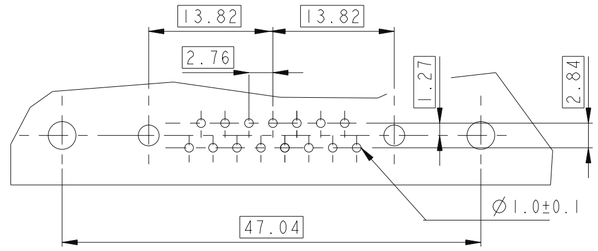


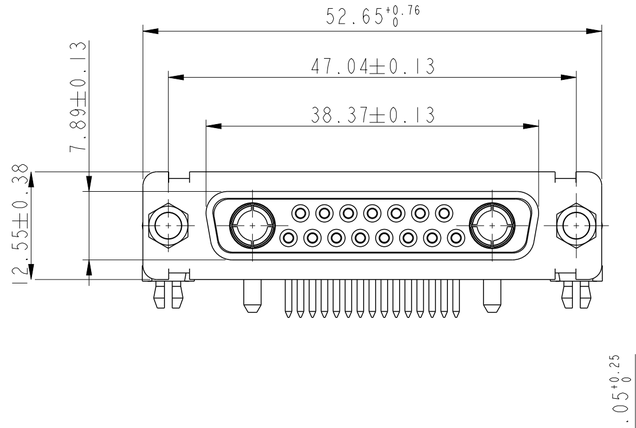


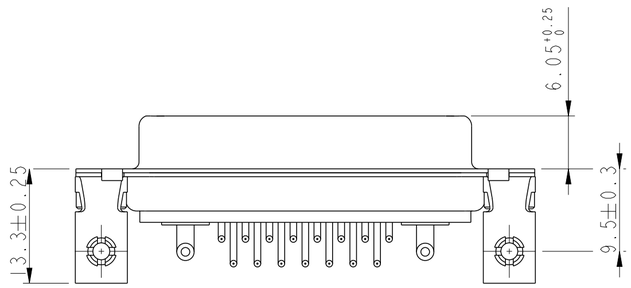
17W2

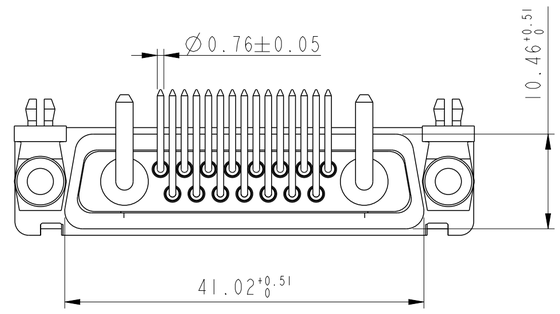
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









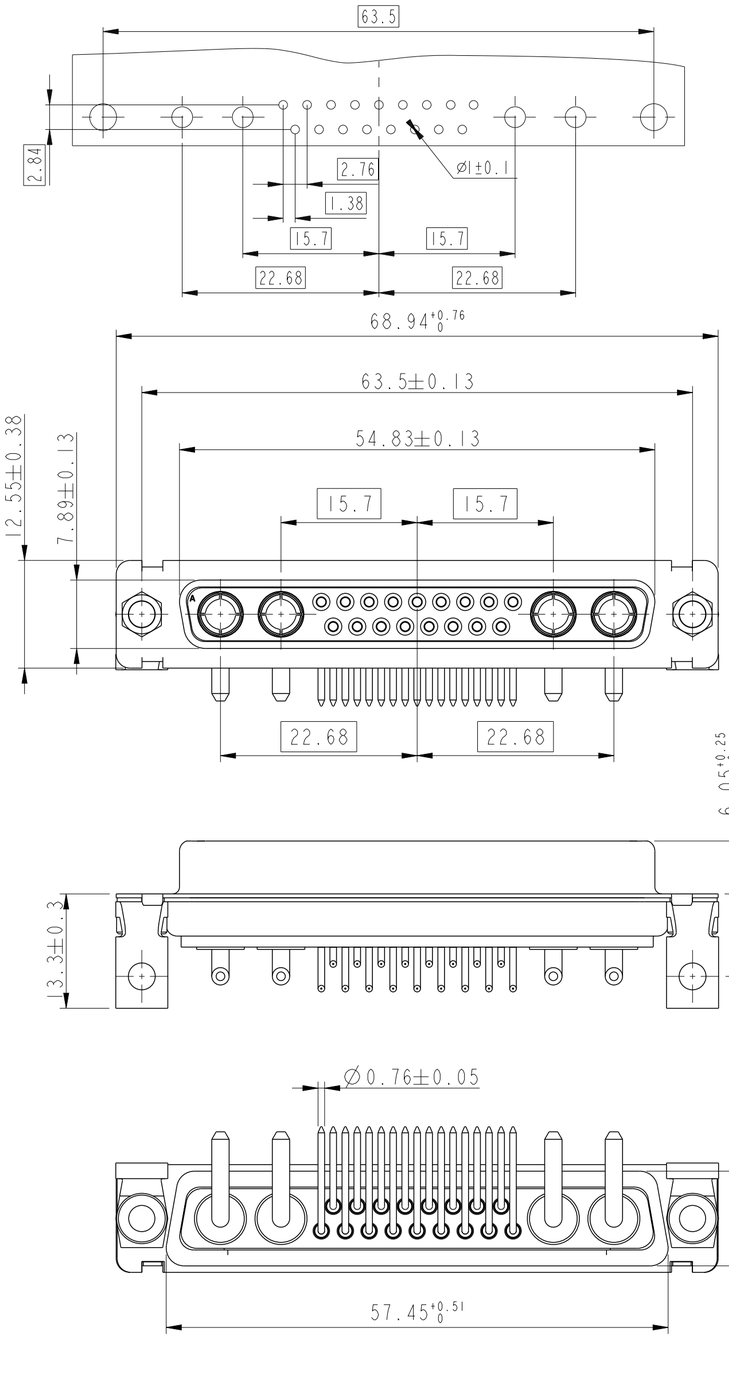
spec ref				dr	1, Product Eng	2015/06/12	projection	mm	size A2	scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Paul Mithun	2019/02/20				
				chr	-	-			ecn no	ELX-I-32325-2
				appr	K-Paul Biju	2019/02/20	product family -		rel level	Released
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title	SUB FEMALE DW US foot print mixed power right angled solder			dwg no	C01-8639-2301C	rev E
		0.XX	±0.10							
		0.XXX	±±0.05							
	angular	0°	±2°		cat. no. -		Product - Customer Drw			sheet 5 of 6

© 2016 AFCI

21WA4

LAYOUT AND CONNECTOR DIMENSIONS

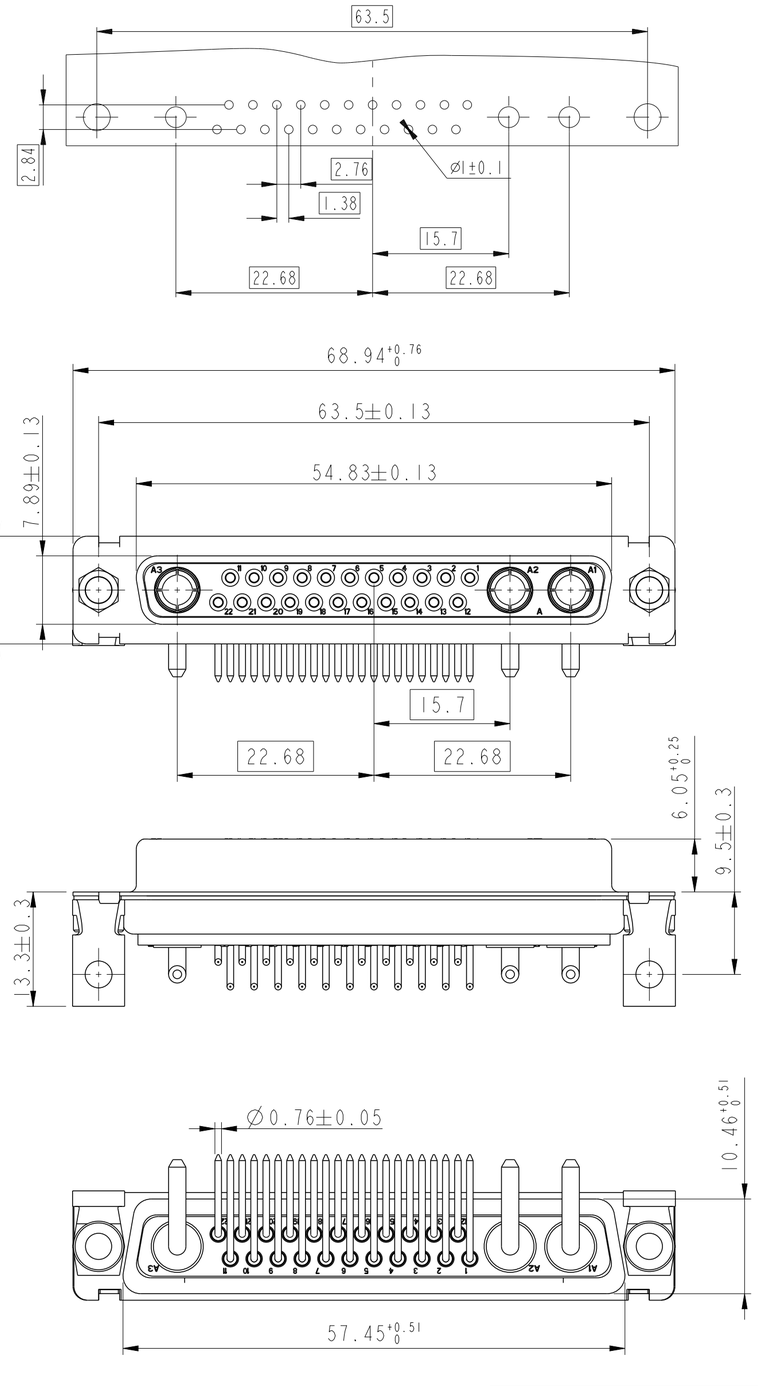
For PCB hole diameters see table 1 sheet 1



25W3

LAYOUT AND CONNECTOR DIMENSIONS

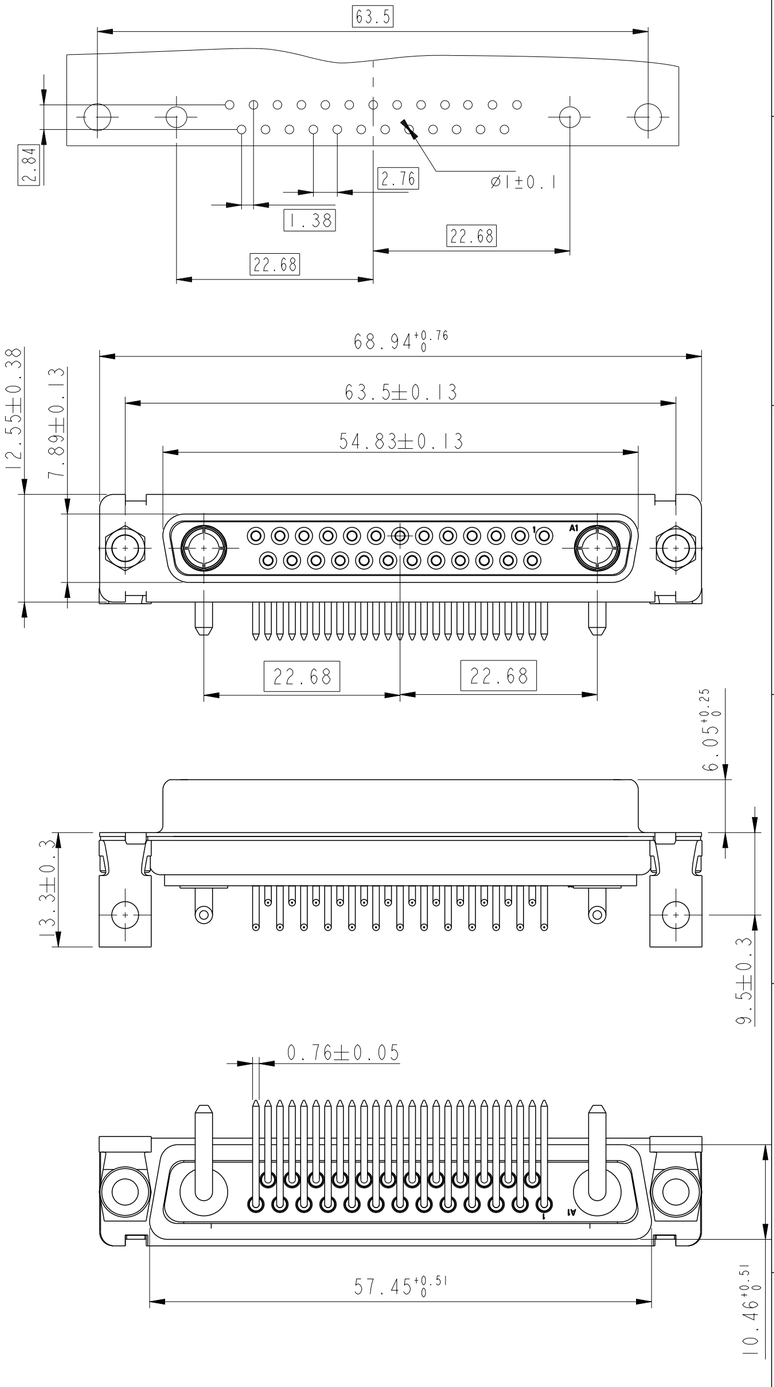
For PCB hole diameters see table 1 sheet 1



27W2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



spec ref			dr	1, Product Eng	2015/06/12	projection	mm	size A2 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Paul Mithun	2019/02/20			
			chr	-	-			ecn no ELX-I-32325-2
			appr	K-Paul Biju	2019/02/20	product family -		rel level Released
surface - ISO 1302	linear	0.X	±3	Amphenol FCi	title	SUB FEMALE DW US foot print mixed power right angled solder		dwg no C01-8639-2301C / rev E
		0.XX	±0.10					
		0.XXX	±±0.05					
	angular	0°	±2°		cat. no. -	Product - Customer Drw		sheet 6 of 6

© 2016 AFCI

Cres File - REV E - 2016-02-12

PDS: Rev :E STATUS: Released Printed: Feb 20, 2019