REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 30A

-CONTACT RESISTANCE: <= 7.3 m ohms

-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 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:
  - Ni 1.27µmi+Sn 2.5 to 7.5µ(pure bright
- Active area plating spec:
  -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

DBL5W5P700G30LF

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 sheets)

Contacts

- **P** : Pin

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

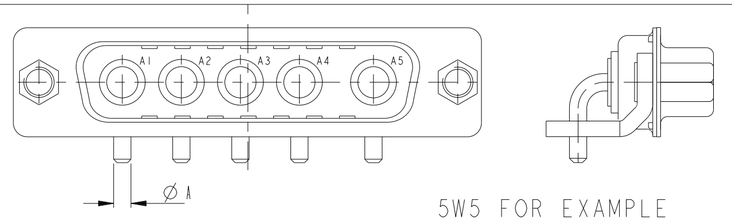
Power contacts

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

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

	POWER CONTACTS		ACCESSORIES
30 A	∅2.00	∅2.40	∅3.10
Max current power	∅A ±0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1

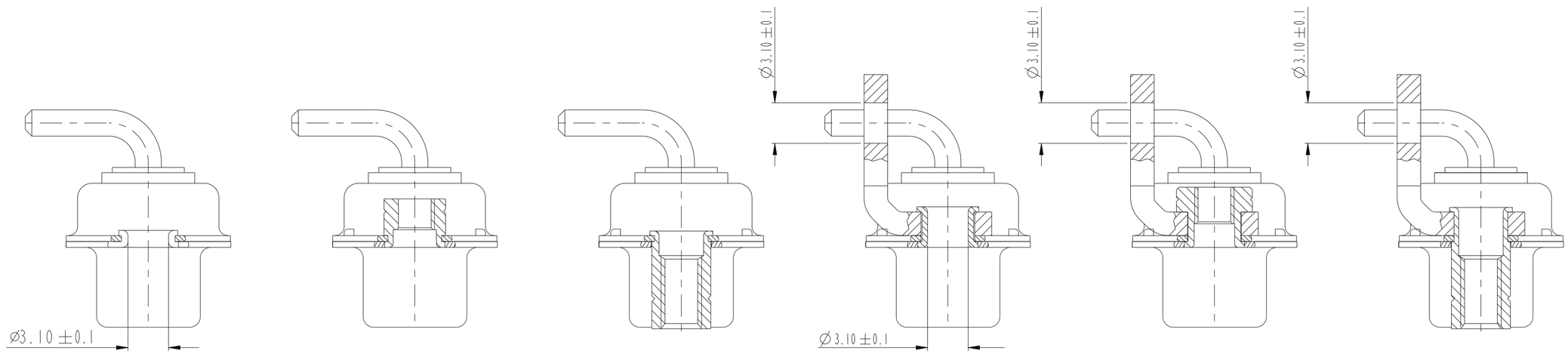


5W5 FOR EXAMPLE

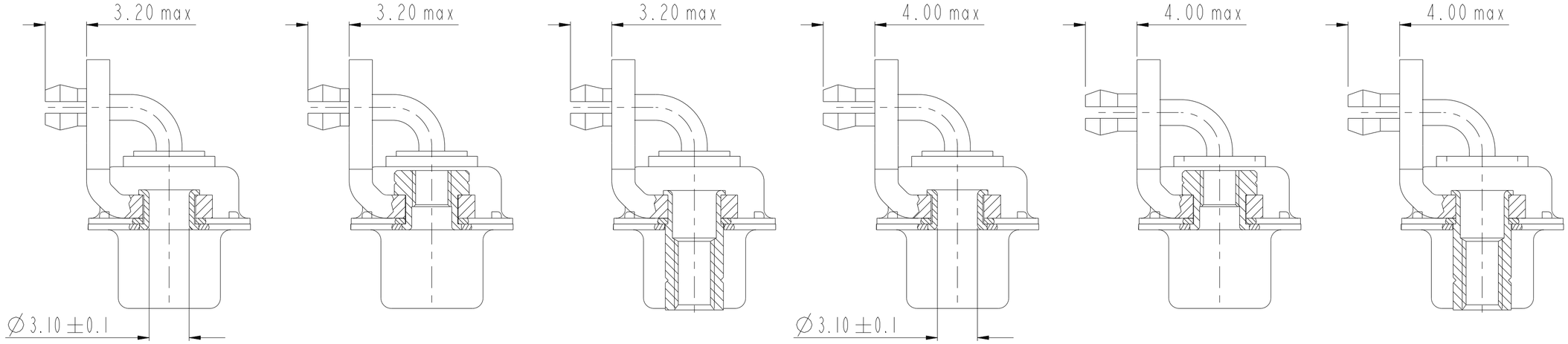
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tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2020/12/04		
			chr	-	-		
			appr	Kuriakose, San	2020/12/06		

size A2	scale 3:1						
ecn no ELX-I-33502-1							
product family D SUB -	rel level Released						
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title SUB MALE DW US foot print full power right angled solder	dwg no C01-8639-2313C	rev E
		0.XX	±0.10				
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 1 of 5

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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

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spec ref				dr	1, Product Eng	2015/06/12	projection
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2020/12/04	mm
				chr	-	-	size A2 / scale 3:1
				appr	Kuriakose, San	2020/12/06	ecn no ELX-I-33502-1
surface -	linear	0.X	±0.3	Amphenol FCi	title: SUB MALE DW US foot print full power right angled solder		product family D SUB - / rel level Released
ISO 1302		0.XX	±0.10				dwg no C01-8639-2313C / rev E
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 2 of 5

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP700A30LF	30	200	without	without
D*LxWxP700A30LF	30	200	insert M3	without
D*OxWxP700A30LF	30	200	insert UNC 4.40	without
D*VxWxP700A30LF	30	200	female screw UNC 4.40	without
D*xWxP700H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP700H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP700H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP700H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP700G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP700G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP700G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP700G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP700M30LF	30	200	without	metal bracket
D*LxWxP700M30LF	30	200	insert M3	metal bracket
D*OxWxP700M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP700M30LF	30	200	female screw UNC 4.40	metal bracket

shell size * | LAYOUTS xWx

shell size *	LAYOUTS xWx
E	2V2
A	3V3
A	3W3
B	5W5
C	8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP743A30LF	30	500	without	without
D*LxWxP743A30LF	30	500	insert M3	without
D*OxWxP743A30LF	30	500	insert UNC 4.40	without
D*VxWxP743A30LF	30	500	female screw UNC 4.40	without
D*xWxP743H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP743H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP743H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP743H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP743G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP743G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP743G30LF	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*xWxP743M30LF	30	500	without	metal bracket
D*LxWxP743M30LF	30	500	insert M3	metal bracket
D*OxWxP743M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP743M30LF	30	500	female screw UNC 4.40	metal bracket

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spec ref

tolerance std ISO 406 ISO 1101 — TOLERANCES UNLESS OTHERWISE SPECIFIED

surface - ISO 1302

linear	0.X	±0.3
	0.XX	±0.10
	0.XXX	±0.05
angular	0°	±2°

dr	1, Product Eng	2015/06/12
eng	Gregar Mathew	2020/12/04
chr	-	-
appr	Kuriakose, San	2020/12/06

projection | mm | size A2 | scale 3:1

ecn no ELX-I-33502-1

product family D SUB - | rel level **Released**

Amphenol FCi

title: SUB MALE DW US foot print
full power right angled solder

dwg no C01-8639-2313C | rev **E**

cat. no. - | Product - Customer Drw | sheet 3 of 5

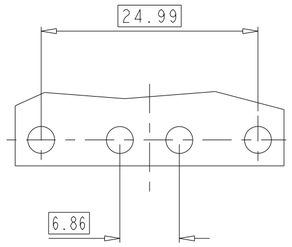
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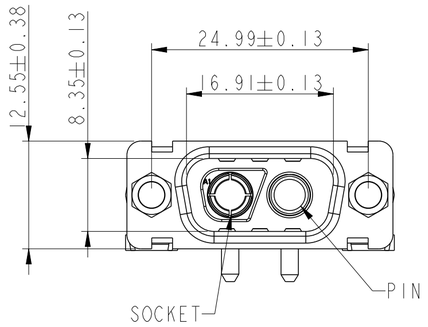
PDS: Rev :E | STATUS: Released | Printed: Dec 18, 2020

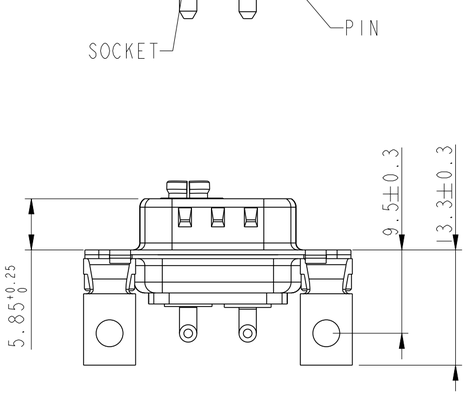
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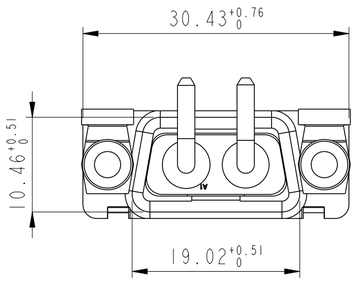
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





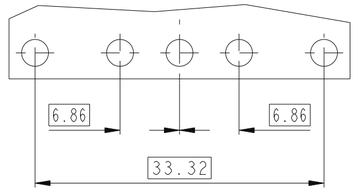


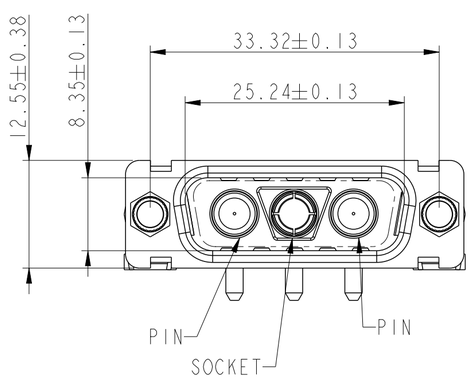


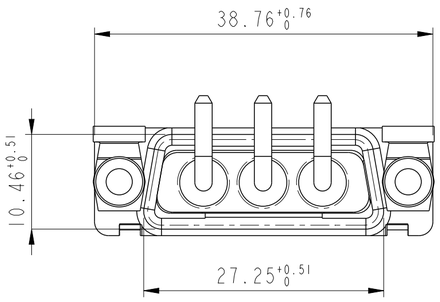
3V3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



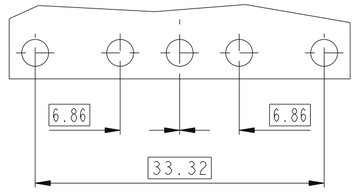


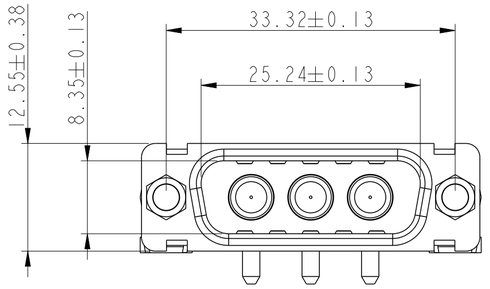


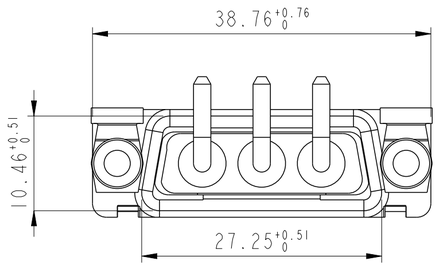
3W3

LAYOUT AND CONNECTOR DIMENSIONS

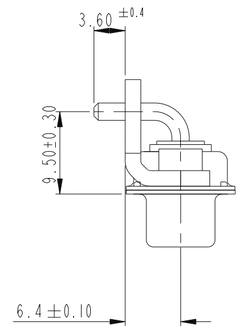
For PCB hole diameters see table 1 sheet 1







SIDE VIEW FOR ALL LAYOUTS



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tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2020/12/04				
				chr	-	-			ecn no	ELX-I-33502-1
				appr	Kuriakose, San	2020/12/06	product family	D SUB -	rel level	Released
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	SUB MALE DW US foot print			dwg no	C01-8639-2313C	rev E
		0.XX	±0.10			full power right angled solder				
		0.XXX	±0.05			cat. no. -	Product - Customer Drw		sheet 4 of 5	
	angular	0°	±2°							

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Amphenol FCi

Creo File - REV E - 2016-02-12

PDS: Rev :E

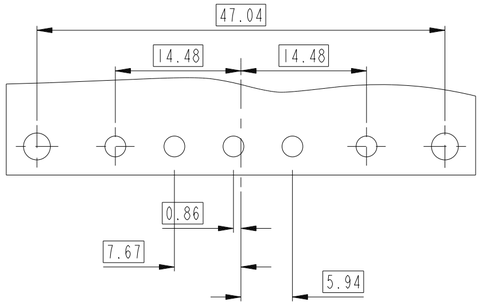
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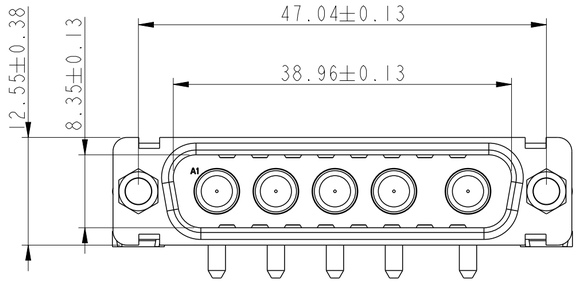
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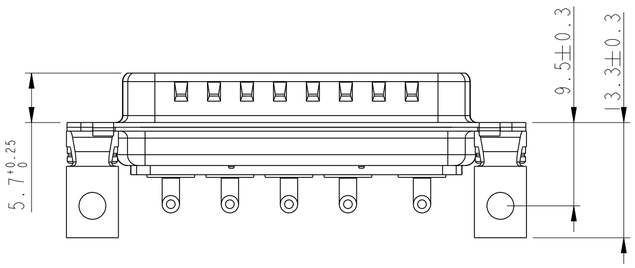
5W5

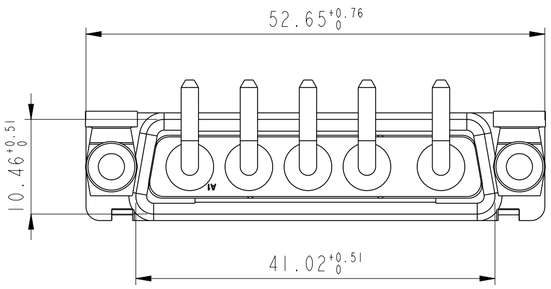
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





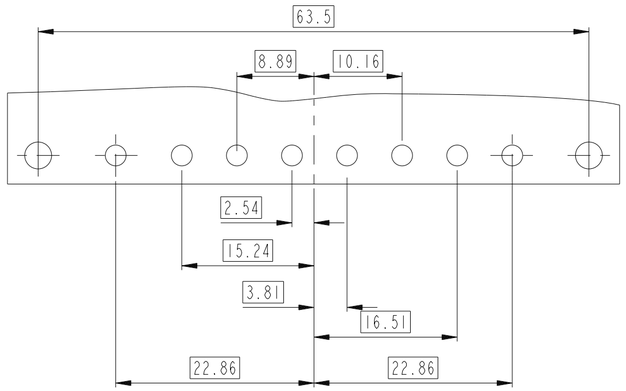


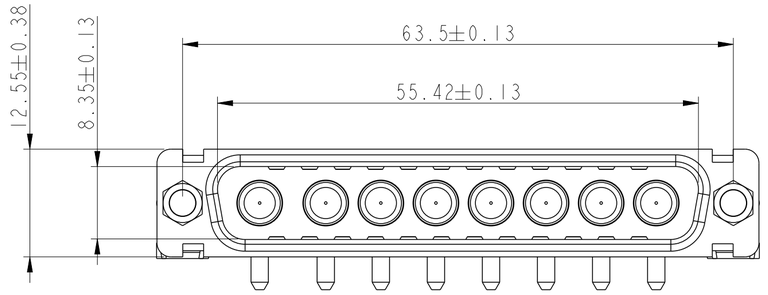


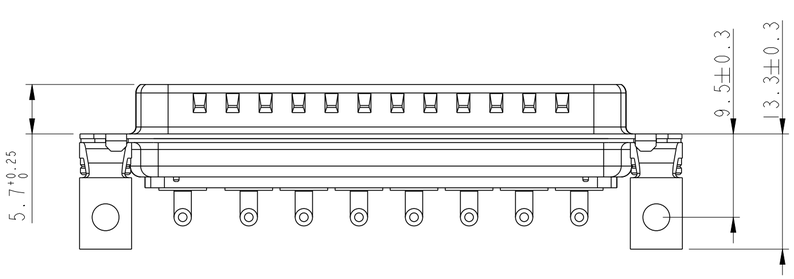
8W8

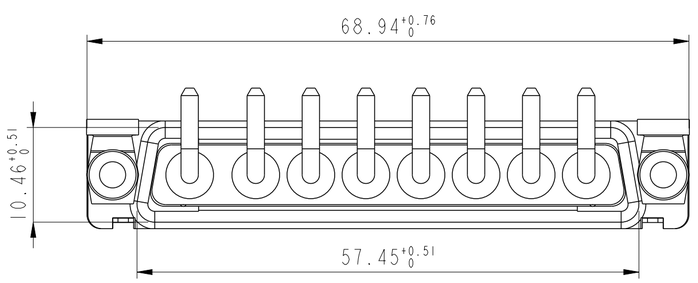
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









spec ref				dr	1, Product Eng	2015/06/12	projection: mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2020/12/04	size: A2
				chr	-	-	scale: 2:1
				appr	Kuriakose, San	2020/12/06	ecn no: ELX-I-33502-1
surface - ISO 1302	linear	0.X	±0.3	product family: D SUB -			rel level: Released
		0.XX	±0.10	Amphenol FCi	title: SUB MALE DW US foot print full power right angled solder		dwg no: C01-8639-2313C
		0.XXX	±0.05				rev: E
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 5 of 5

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PDS: Rev :E

STATUS: Released

Printed: Dec 18, 2020