REFERENCE SPECIFICATIONS:

- NFC 93425 (in compliance with HE 507)
- T-RISE AS PER UL 1977

PHYSICAL CHARACTERISTICS:

-INSULATOR MATERIAL : THERMOPLASTIC, UL 94V0
-CONTACT MATERIAL : TELLURIUM COPPER
-ACCESSORIES : BRASS
-SHELL : STEEL

ELECTRICAL CHARACTERISTICS:

-RATED CURRENT : 75A
TEMEPERATURE RISE TEST AS PER UL 1977 SPECIFICATION (MAXIMUM T-RISE AT RATED CURRENT IS BELOW RTI VALUE OF INSULATOR RESIN (130°C))
-CONTACT RESISTANCE : <= 7.3mΩ
-DWV (CONTACT/CONTACT) : >= 1000V
-DWV (CONTACT/SHELL) : >= 1200V
-INSULATION RESISTANCE : >=5000MΩ

MECHANICAL CHARACTERISTICS:

- RETENTION AGAINST TORQUE :
  Threaded insert : 0.7Nm Max
  Female screw lock : 0.5 Nm Max

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:
  Silver over Nickel
- Active area plating spec:
  Silver over Nickel
- Shell plating :Nickel plating
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

DBV5W5S500H9KLF

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

S : Socket

Termination type

5 Right angle/Europe standard

Plating

00 200 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

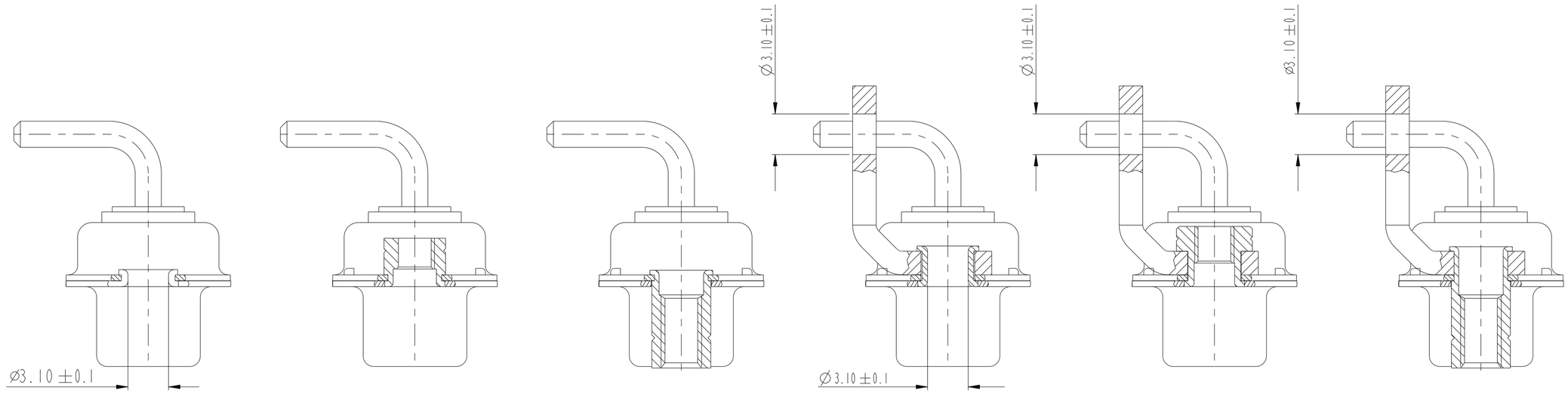
Power contacts

9K : Fitted with power contacts 75 Amp.

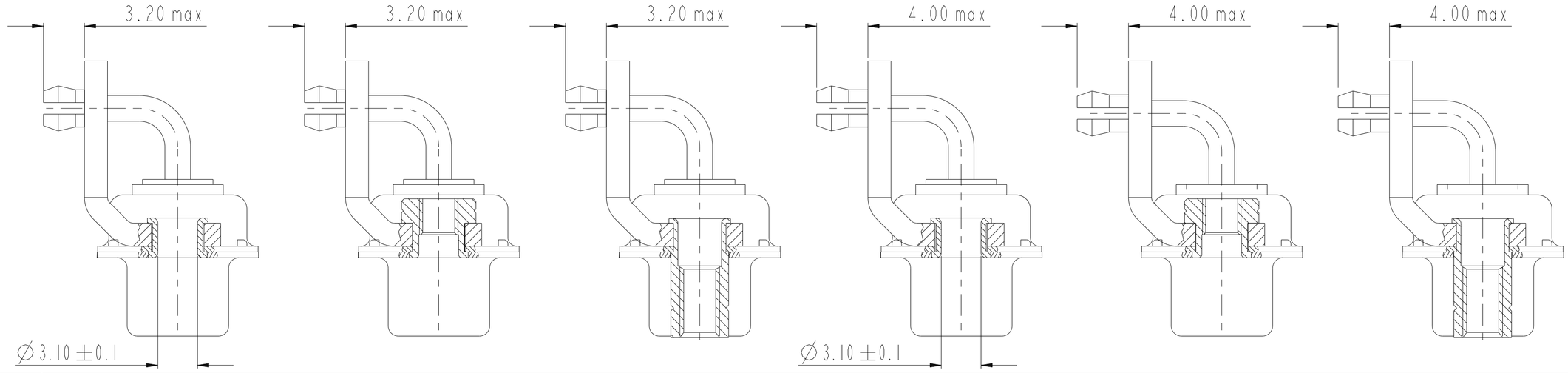
See note RoHS

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spec ref			dr	Arun C-John	2023/06/23	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2023/06/23	size A2	scale 2:1
			chr	-	-	ecn no	
			appr	Alex Babu	2023/06/23	product family -	rel level: Released
surface	linear	0.X	±0.3	Amphenol FCi	title: HIGH CURRENT D-SUB FEMALE FULL POWER RIGHT ANGLE	dwg no 10165031	rev A
		0.XX	±0.10				
		0.XXX	±				
	angular	0°	±1°		cat. no. -	Product - Customer Drw	sheet 1 of 5



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

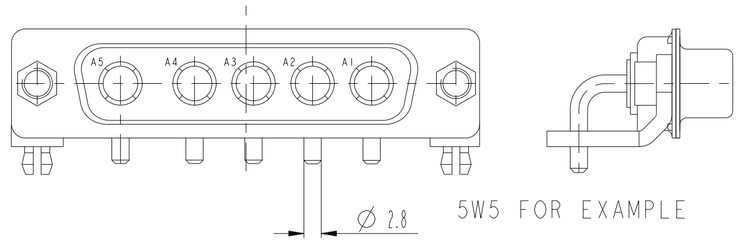
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spec ref			dr	Arun C-John	2023/06/23	projection	mm	size A2 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2023/06/23			ecn no
			chr	-	-			
			appr	Alex Babu	2023/06/23	product family -		rel level: Released
surface -	linear	0.X	±0.3	Amphenol FCi	title: HIGH CURRENT D-SUB FEMALE FULL POWER RIGHT ANGLE		dwg no 10165031	rev A
		0.XX	±0.10					
		0.XXX	±		cat. no. -	Product - Customer Drw		sheet 2 of 5
	angular	0°	±1°					

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SHELL SIZE	E	A	A	B	C
LAYOUTS xWx	2V2	3V3	3W3	5W5	8W8

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxS500A9KLF	75	500	without	without
D*LxWxS500A9KLF	75	500	insert M3	without
D*OxWxS500A9KLF	75	500	insert UNC 4.40	without
D*VxWxS500A9KLF	75	500	female screw UNC 4.40	without
D*xWxS500H9KLF	75	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxS500H9KLF	75	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxS500H9KLF	75	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxS500H9KLF	75	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxS500G9KLF	75	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxS500G9KLF	75	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxS500G9KLF	75	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxS500G9KLF	75	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxS500M9KLF	75	500	without	metal bracket
D*LxWxS500M9KLF	75	500	insert M3	metal bracket
D*OxWxS500M9KLF	75	500	insert UNC 4.40	metal bracket
D*VxWxS500M9KLF	75	500	female screw UNC 4.40	metal bracket



5W5 FOR EXAMPLE

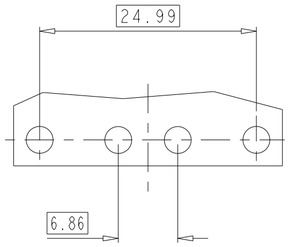
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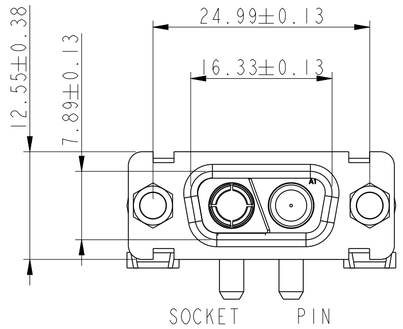
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tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2023/06/23	size A2	scale 2:1
			chr	-	-	ecn no	
			appr	Alex Babu	2023/06/23	product family -	rel level: Released
surface -	linear	0.X	±0.3	Amphenol FCi	title: HIGH CURRENT D-SUB FEMALE FULL POWER RIGHT ANGLE	dwg no 10165031	rev A
		0.XX	±0.10				
		0.XXX	±				
	angular	0°	±1°		cat. no. -	Product - Customer Drw	sheet 3 of 5

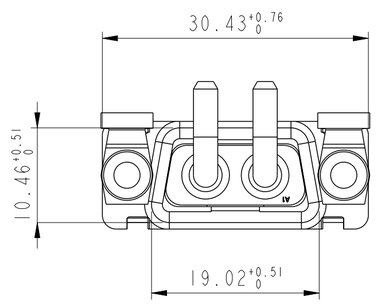
2V2

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



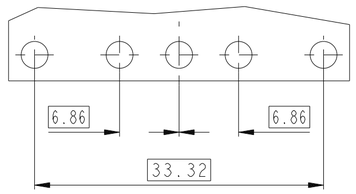


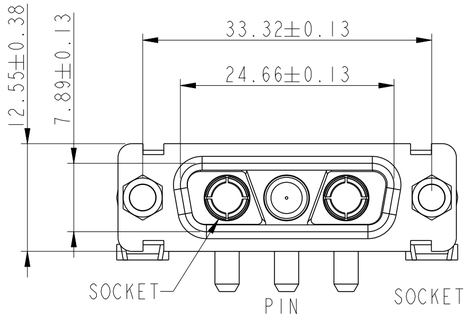


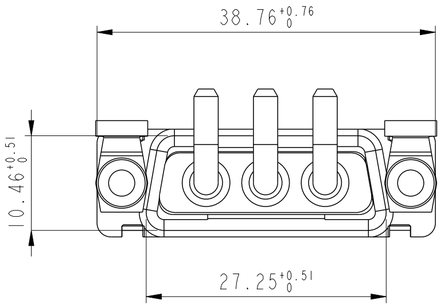
3V3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



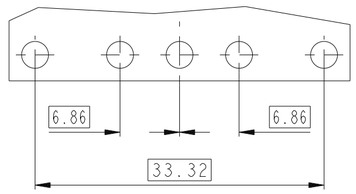


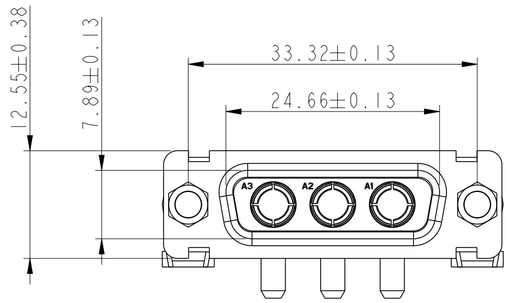


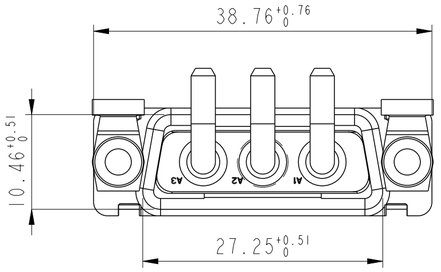
3W3

LAYOUT AND CONNECTOR DIMENSIONS

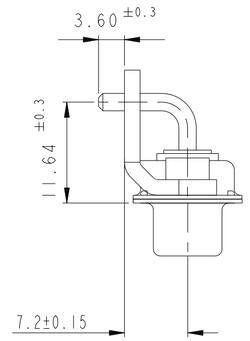
For PCB hole diameters see table 1 sheet 1







SIDE VIEW FOR ALL LAYOUTS



spec ref			dr	Arun C-John	2023/06/23	projection	mm	size A2 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2023/06/23			ecn no
			chr	-	-			rel level: Released
			appr	Alex Babu	2023/06/23	product family -		
surface -	linear	0.X ±0.3	Amphenol FCi	title: HIGH CURRENT D-SUB FEMALE FULL POWER RIGHT ANGLE			dwg no 10165031	rev A
		0.XX ±0.10						
		0.XXX ±		cat. no. -		Product - Customer Drw		sheet 4 of 5
	angular	0° ±1°						

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Crea File:ELX-MC-A2C_REV F_2020-12-21

PDS: Rev :A

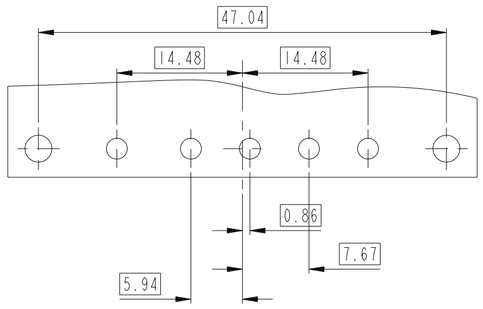
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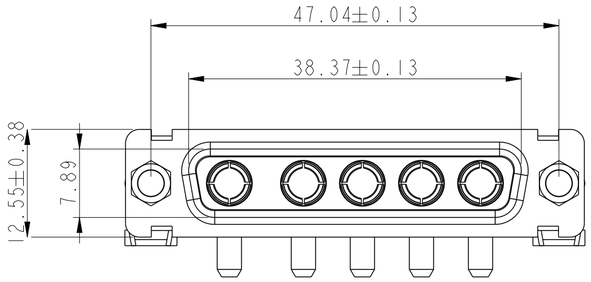
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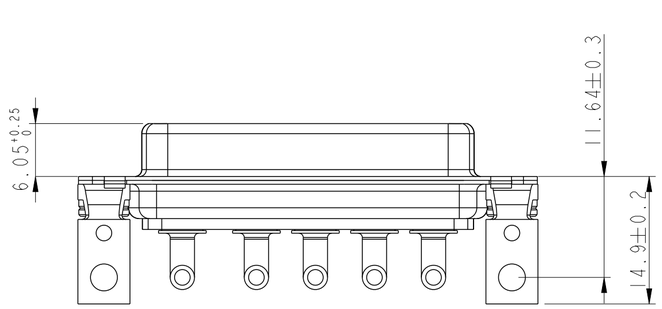
5W5

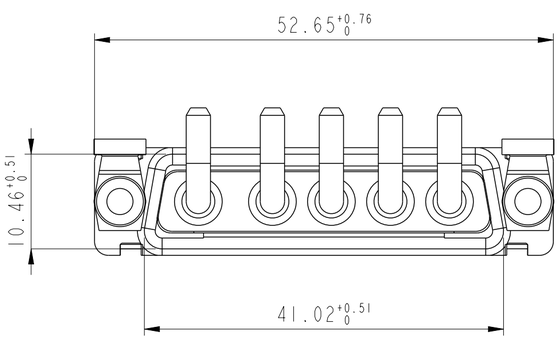
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





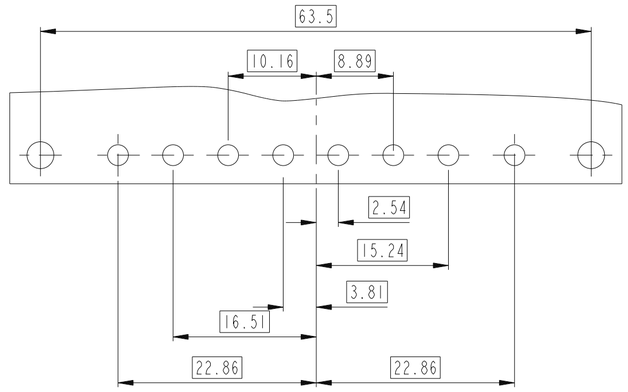


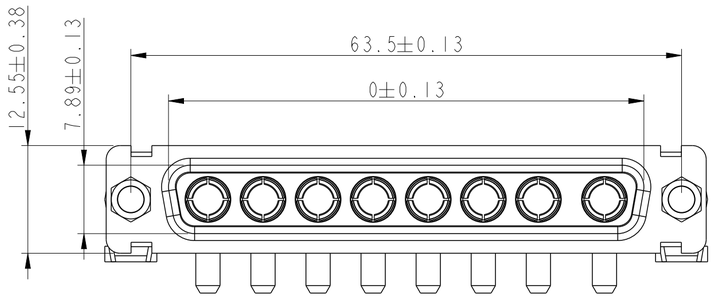


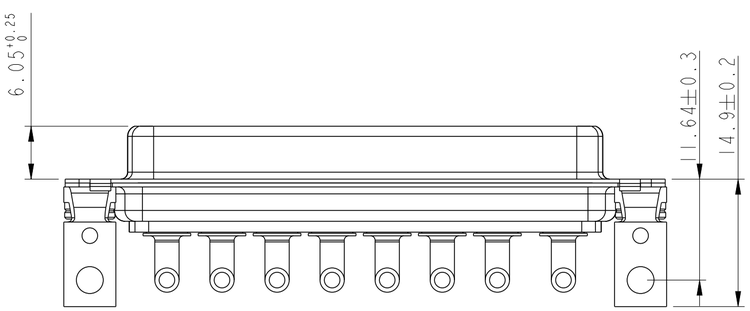
8W8

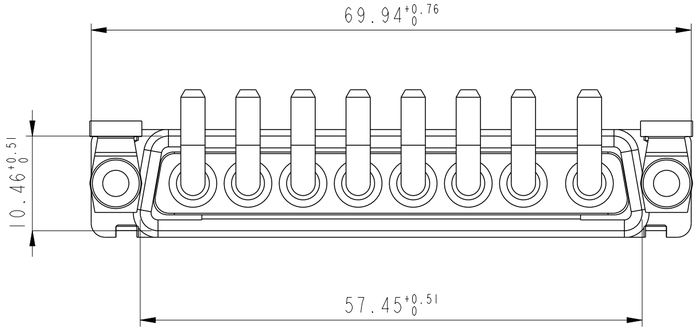
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









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spec ref			dr	Arun C-John	2023/06/23	projection	mm	size A2 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2023/06/23			ecn no
			chr	-	-			
			appr	Alex Babu	2023/06/23	product family -		rel level: Released
surface -	linear	0.X	±0.3	Amphenol FCi	title	HIGH CURRENT D-SUB FEMALE FULL POWER RIGHT ANGLE		dwg no 10165031 / rev A
		0.XX	±0.10					
		0.XXX	±					
	angular	0°	±1°		cat. no. -	Product - Customer Drw		sheet 5 of 5

Crea File:ELX-MC-A2C,REV F,2020-12-21

PDS: Rev :A

STATUS: Released

Printed: Jun 23, 2023