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 or 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-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

DBL5W5P500G30LF

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
- **I** : female screw M3

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

- **00** : Not Fitted with power contact (signal contacts always fitted)
- **30** : Fitted with power contacts 30 Amp.
- **40** : Fitted with power contacts 40 Amp.

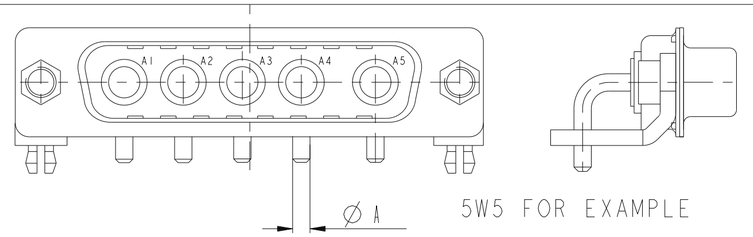
See note RoHS

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:
  - 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

TABLE 1:PCB HOLE DIAMETERS

	POWER CONTACTS		ACCESSORIES
30 A	2.00	∅2.40	∅3.10
40 A	2.80	∅3.10	
Max current power	∅A ±0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



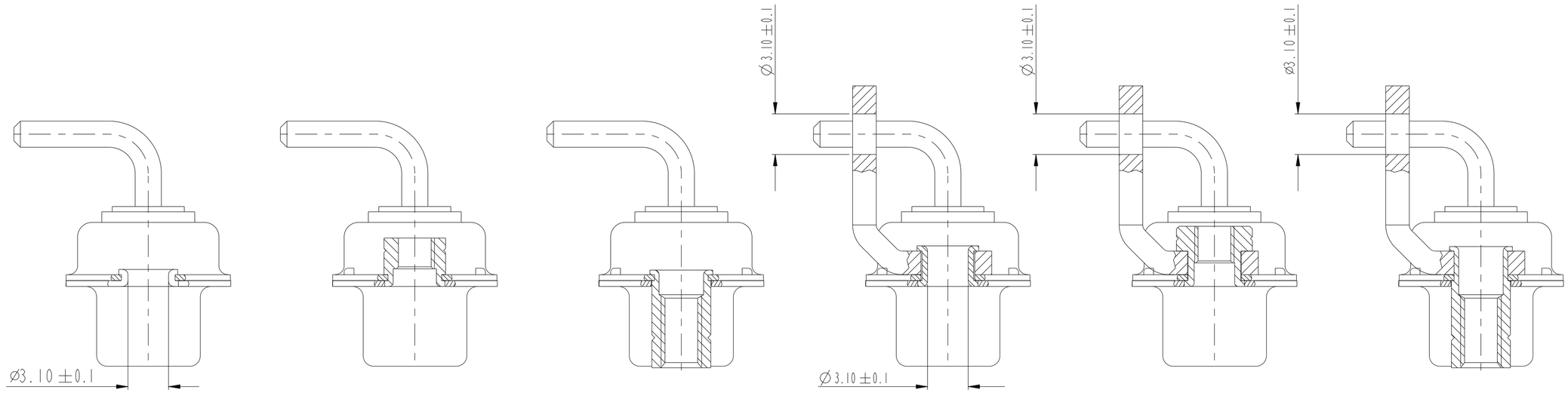
5W5 FOR EXAMPLE

spec ref			dr	1, Product Eng	2015/06/16	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2020/12/04		
			chr	-	-		
			appr	Kuriakose, San	2020/12/06	product family	D SUB -
surface - ISO 1302	linear	0.X ±0.3	Amphenol FCi	title	SUB MALE DW EUROPE foot print	size	A2
		0.XX ±0.1			full power right angled solder	scale	3:1
		0.XXX ±0.05				ecn no	ELX-I-33502-1
	angular	0° ±2°		cat. no.	-	rel level	Released
				Product - Customer Drw		dwg no	C01-8639-2312
						rev	F
						sheet 1 of 5	

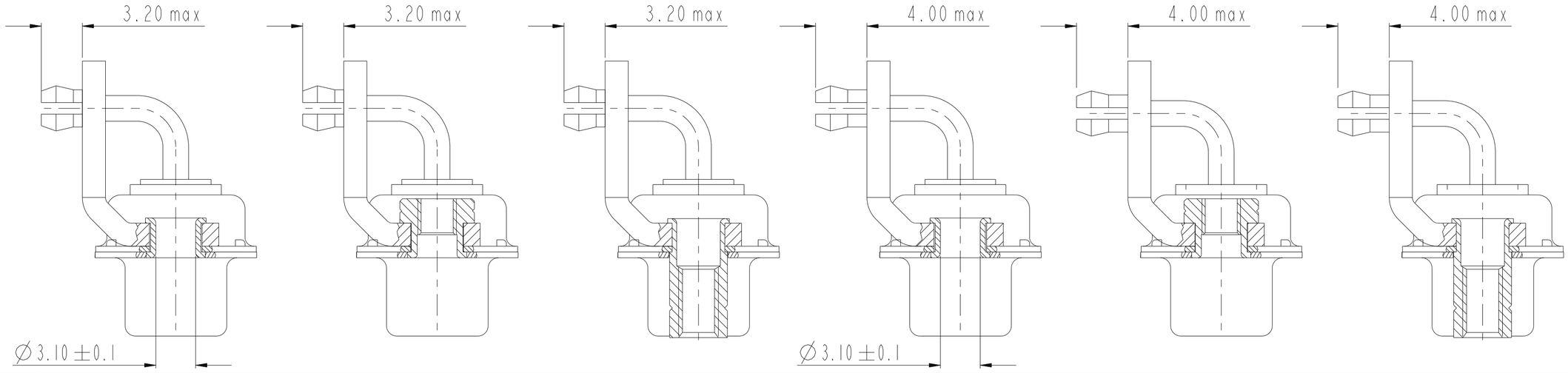
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Amphenol FCi

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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

tolerance std ISO 406 ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

surface - ISO 1302

linear	0.X	±0.3
	0.XX	±0.1
	0.XXX	±0.05
angular	0°	±2°

dr	1, Product Eng	2015/06/16
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 EUROPE foot print
full power right angled solder

dwg no C01-8639-2312 | rev ptc_wm_F

cat. no. - | Product - Customer Drw | sheet 2 of 5

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

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP500A30LF	30	200	without	without
D*LxWxP500A30LF	30	200	insert M3	without
D*OxWxP500A30LF	30	200	insert UNC 4.40	without
D*VxWxP500A30LF	30	200	female screw UNC 4.40	without
D*xWxP500H30LF	30	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H30LF	30	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G30LF	30	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G30LF	30	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G30LF	30	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G30LF	30	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M30LF	30	200	without	metal bracket
D*LxWxP500M30LF	30	200	insert M3	metal bracket
D*OxWxP500M30LF	30	200	insert UNC 4.40	metal bracket
D*VxWxP500M30LF	30	200	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP500A40LF	40	200	without	without
D*LxWxP500A40LF	40	200	insert M3	without
D*OxWxP500A40LF	40	200	insert UNC 4.40	without
D*VxWxP500A40LF	40	200	female screw UNC 4.40	without
D*xWxP500H40LF	40	200	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP500H40LF	40	200	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP500H40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP500H40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP500G40LF	40	200	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP500G40LF	40	200	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP500G40LF	40	200	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP500G40LF	40	200	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP500M40LF	40	200	without	metal bracket
D*LxWxP500M40LF	40	200	insert M3	metal bracket
D*OxWxP500M40LF	40	200	insert UNC 4.40	metal bracket
D*VxWxP500M40LF	40	200	female screw UNC 4.40	metal bracket

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

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP543A30LF	30	500	without	without
D*LxWxP543A30LF	30	500	insert M3	without
D*OxWxP543A30LF	30	500	insert UNC 4.40	without
D*VxWxP543A30LF	30	500	female screw UNC 4.40	without
D*xWxP543H30LF	30	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H30LF	30	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H30LF	30	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H30LF	30	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G30LF	30	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G30LF	30	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G30LF	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*xWxP543M30LF	30	500	without	metal bracket
D*LxWxP543M30LF	30	500	insert M3	metal bracket
D*OxWxP543M30LF	30	500	insert UNC 4.40	metal bracket
D*VxWxP543M30LF	30	500	female screw UNC 4.40	metal bracket

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*xWxP543A40LF	40	500	without	without
D*LxWxP543A40LF	40	500	insert M3	without
D*OxWxP543A40LF	40	500	insert UNC 4.40	without
D*VxWxP543A40LF	40	500	female screw UNC 4.40	without
D*xWxP543H40LF	40	500	without	metal bracket+harpoon PCB 2.40mm
D*LxWxP543H40LF	40	500	insert M3	metal bracket+harpoon PCB 2.40mm
D*OxWxP543H40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*VxWxP543H40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 2.40mm
D*xWxP543G40LF	40	500	without	metal bracket+harpoon PCB 1.60mm
D*LxWxP543G40LF	40	500	insert M3	metal bracket+harpoon PCB 1.60mm
D*OxWxP543G40LF	40	500	insert UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*VxWxP543G40LF	40	500	female screw UNC 4.40	metal bracket+harpoon PCB 1.60mm
D*xWxP543M40LF	40	500	without	metal bracket
D*LxWxP543M40LF	40	500	insert M3	metal bracket
D*OxWxP543M40LF	40	500	insert UNC 4.40	metal bracket
D*VxWxP543M40LF	40	500	female screw UNC 4.40	metal bracket

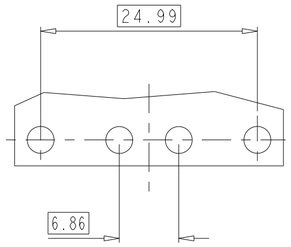
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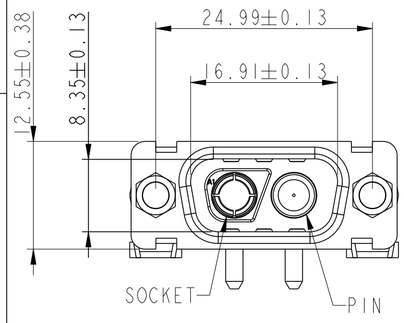
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tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Gregar Mathew	2020/12/04			ecn no ELX-I-33502-1
			chr	-	-			
			appr	Kuriakose, San	2020/12/06	product family D SUB -		rel level: Released
surface - ISO 1302	linear	0.X ±0.3	Amphenol FCI	title	SUB MALE DW EUROPE foot print	dwg no C01-8639-2312		rev ptc_wm_F vis
		0.XX ±0.1			full power right angled solder			
		0.XXX ±0.05			cat. no. -	Product - Customer Drw		sheet 3 of 5
	angular	0° ±2°						

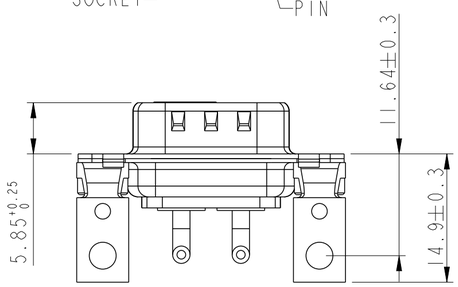
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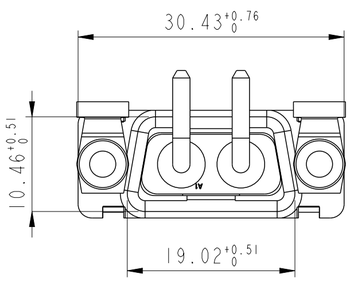
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





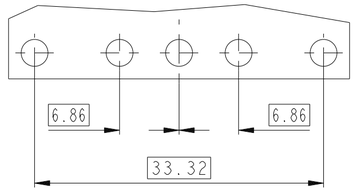


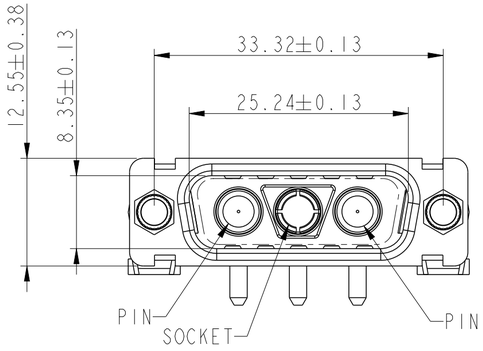


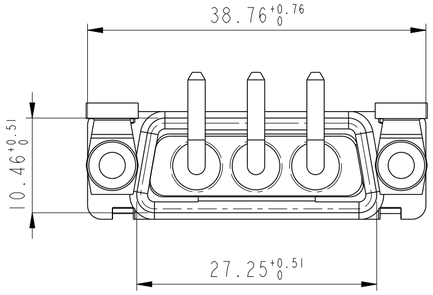
3V3

LAYOUT AND CONNECTOR DIMENSIONS

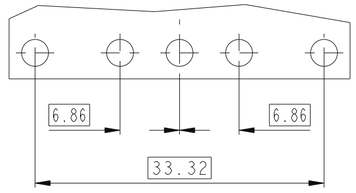
For PCB hole diameters see table 1 sheet 1

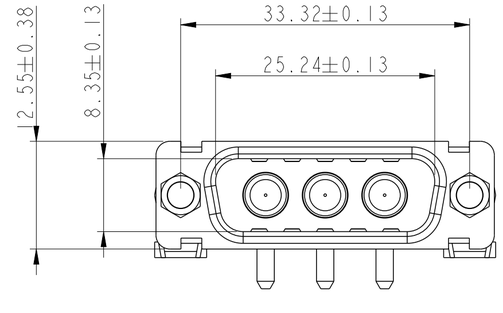


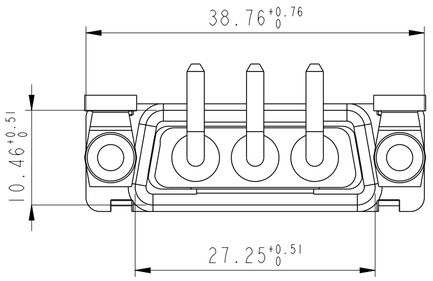




3W3

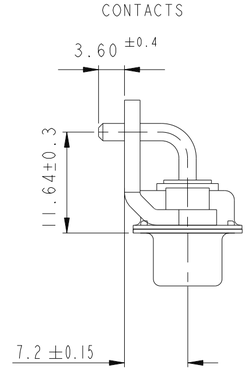






SIDE VIEW FOR ALL LAYOUTS

VIEW WITH POWERS CONTACTS



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tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Gregar Mathew	2020/12/04	mm
				chr	-	-	size A2 / scale 2:1
				appr	Kuriakose, San	2020/12/06	ecn no ELX-I-335502-1
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title: SUB MALE DW EUROPE foot print full power right angled solder		product family D SUB - / rel level: Released
		0.XX	±0.1				dwg no C01-8639-2312 ptc_wm_F vis / rev
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 4 of 5

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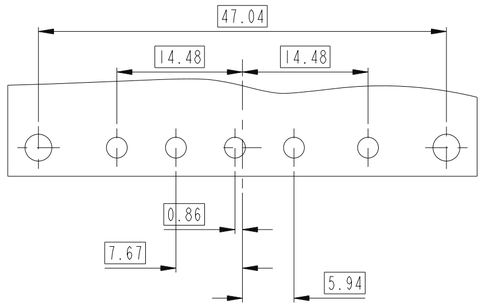
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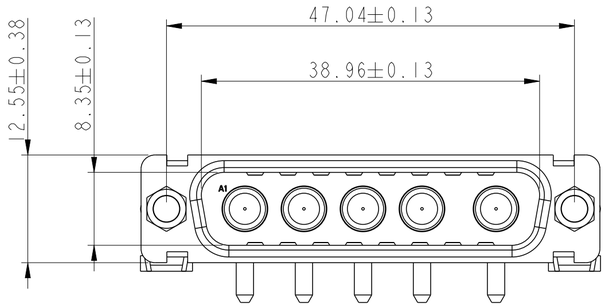
Printed: Dec 18, 2020

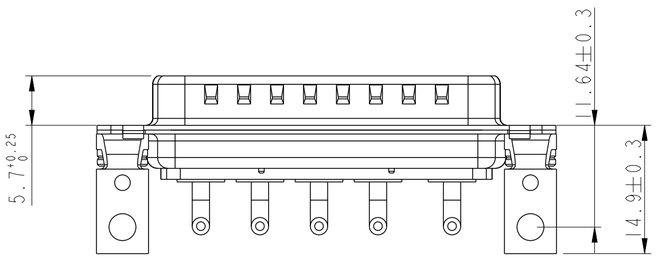
5W5

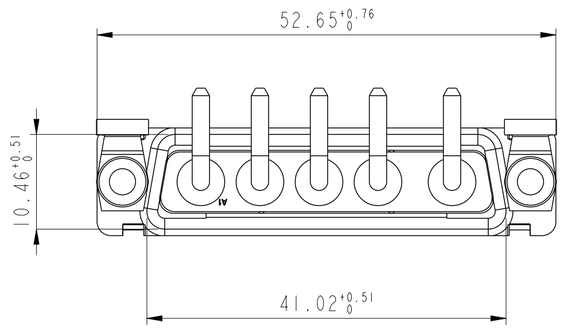
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I





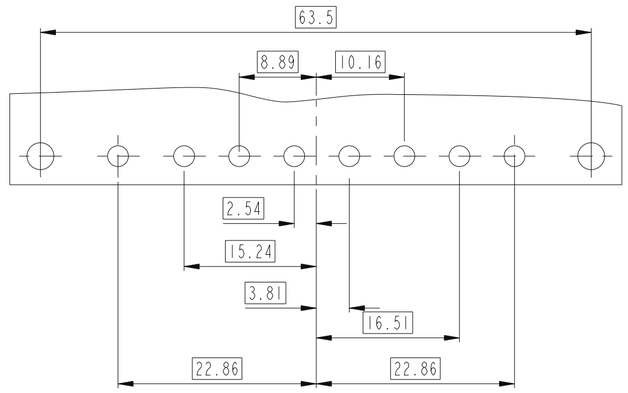


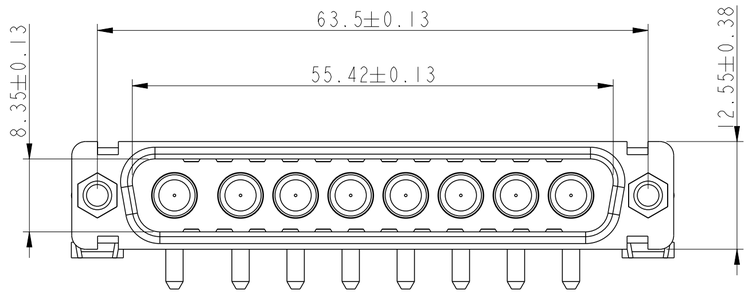


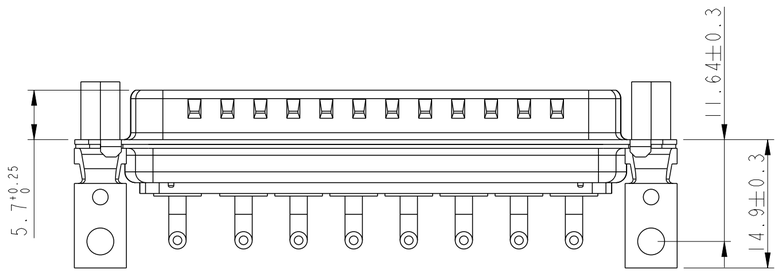
8W8

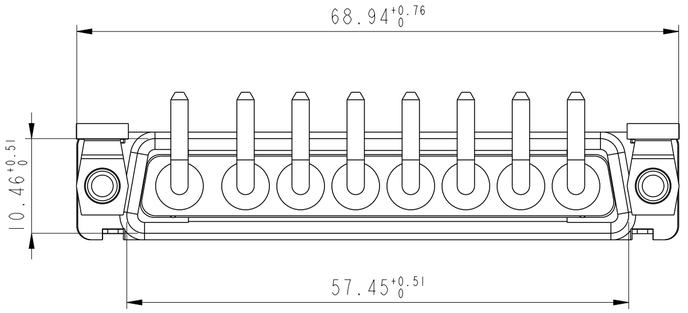
LAYOUT AND CONNECTOR DIMENSIONS

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: 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 EUROPE foot print; full power right angled solder		dwg no: C01-8639-2312 ptc_wm_F; rev vis
		0.XX	±0.1				
		0.XXX	±0.05				
	angular	0°	±2°		cat. no. -	Product - Customer Drw	sheet 5 of 5

PDS: Rev :F STATUS: Released Printed: Dec 18, 2020

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