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 48 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
  - Female screw : 0.5 N.m minimum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- 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
  - Power contacts: Ni 1.27µmit+Sn 2.5 to 7.5µ,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4µm Cu + nickel + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920

DBL13W3S500G30LF

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

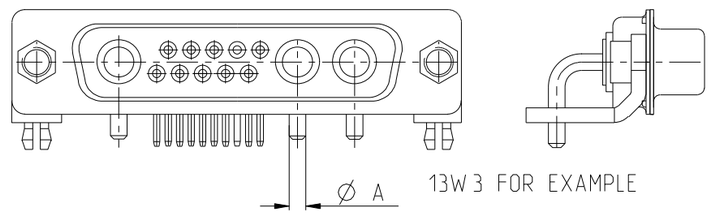
Power contacts

- **00** : 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

TABLE 1:PCB HOLE DIAMETERS

	POWER CONTACTS		ACCESSORIES	SIGNAL CONTACT
30 A	2.00	∅2.40	∅3.10	∅0.9 min
40 A	2.80	∅3.10		
Max current power	∅A $^{+0.1}_{0}$	PCB HOLE ±0.1	PCB HOLE ±0.1	PCB HOLE



rev	ecn no	dr	date
A	LS05-0101	MPE	2005-10-11
B	LS06-0208	LGO	2006-12-12
C	LS07-0273	MPE	2007/10/31
D	F09-0092	LSA	2009/09/16
E	F10-0060	LSA	2010/06/01
-	-	-	-
-	-	-	-

www.fciconnect.com	surface ISO 1302	-	tolerance std ISO 406	ISO 1101	projection / mm
	TOLERANCES UNLESS OTHERWISE SPECIFIED				
Dr M PESSON 2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2 / Scale 2:1
Eng P LEGARE 2005-10-11			0.XX	±0.1	
Chr	0° ±2°		0.XXX	±0.05	ECN F10-0060
Appr	Product family	-	Spec ref		

title: SUB FEMALE DMW EUROPE
mixed power right angled solder

dwg no: C01-8639-2300 Rev. E

catalog no -

CUSTOMER

sheet 1 of 7

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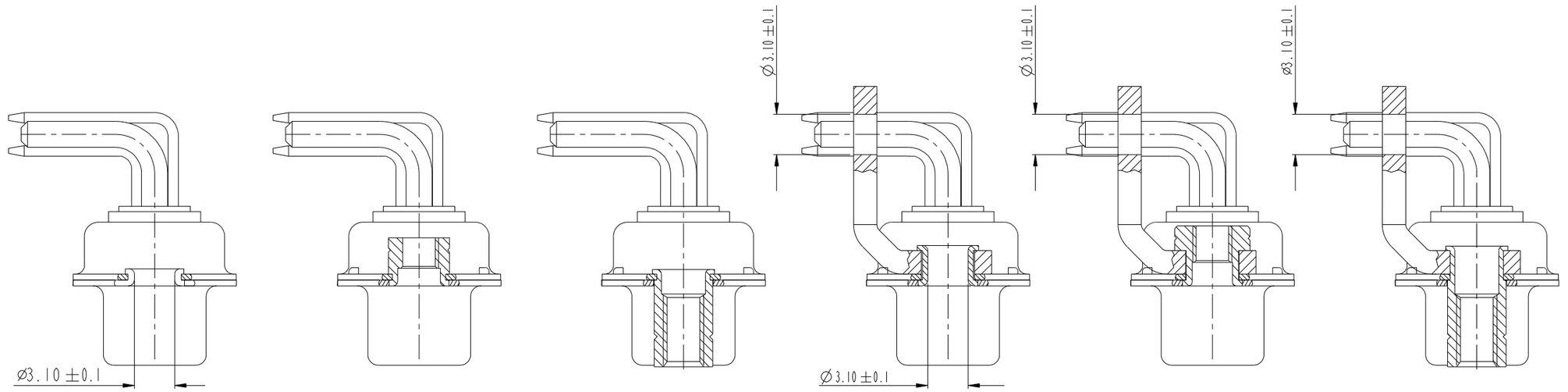
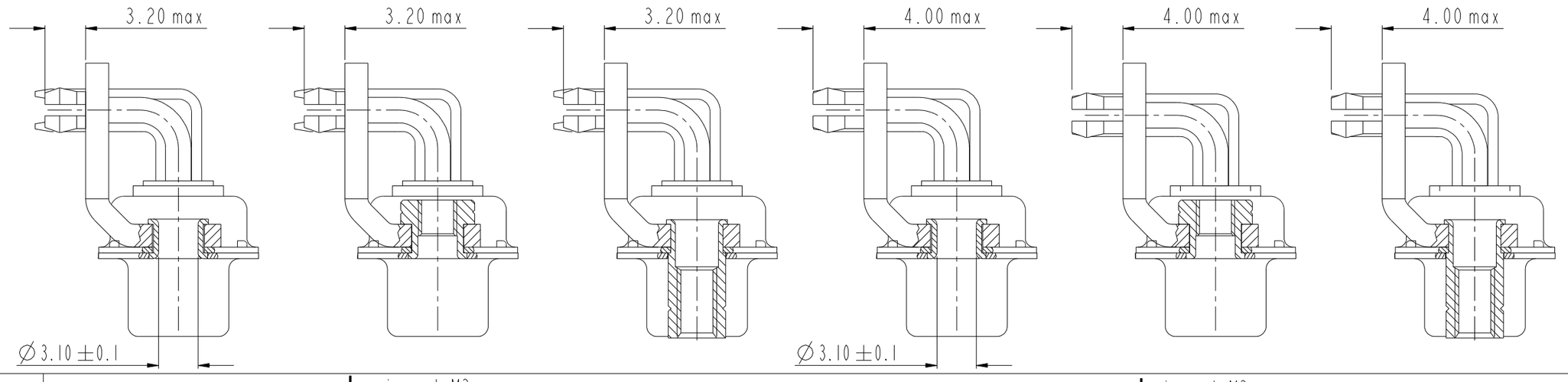
REV E - 2006-03-28

PDM: Rev:E STATUS: Released Printed: Oct 01, 2010



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

Copyright FCI.

SCALE:4

www.fciconnect.com			surface - ISO 1302		tolerance std ISO 406 ISO 1101		projection	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX	±0.1		
Chr			0° ±2°		0.XXX	±0.05	ECN	F10-0060
Appr			Product family		-		Spec ref	
title	SUB FEMALE DMW EUROPE mixed power right angled solder						dwg no	C01-8639-2300 Rev. E
catalog no	-						CUSTOMER	sheet 2 of 7

REV E - 2006-03-28

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 *	LAYOUTS xWx
E	5WI
A	11WI
A	7W2
B	21WI
B	17W2
B	13W3
B	9W4
C	25W3
C	21WA4
C	27W2
D	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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surface - ISO 1302 | tolerance std ISO 406 ISO 1101 | projection | mm

TOLERANCES UNLESS OTHERWISE SPECIFIED

Dr	M PESSON	2005-10-11	ANGULAR 0° ±2°	LINEAR 0.X ±0.3	size A2	Scale 2:1
Eng	P LEGARE	2005-10-11		0.XX ±0.1		
Chr				0.XXX ±0.05	ECN F10-0060	
Appr			Product family -		Spec ref	

title: SUB FEMALE DMW EUROPE
mixed power right angled solder

dwg no C01-8639-2300 | Rev. E

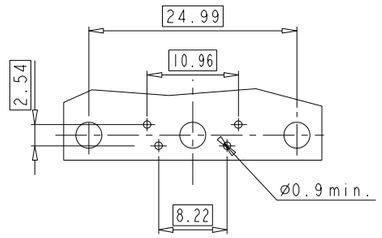
catalog no - | CUSTOMER | sheet 3 of 7

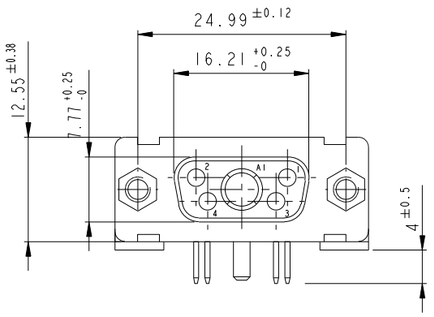
REV E - 2006-03-28

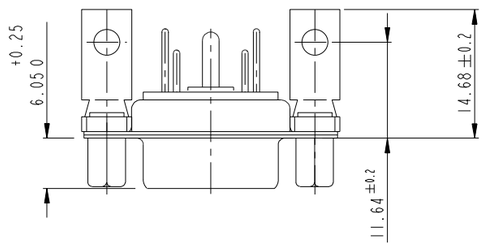
5W1

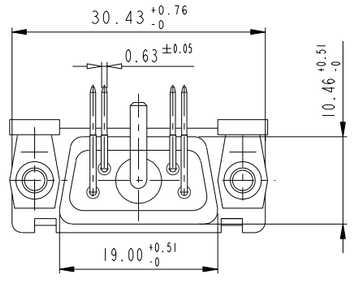
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1







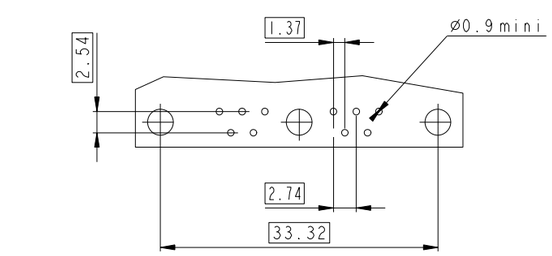


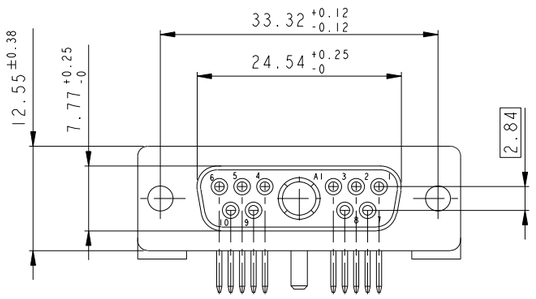
Floating signal contacts

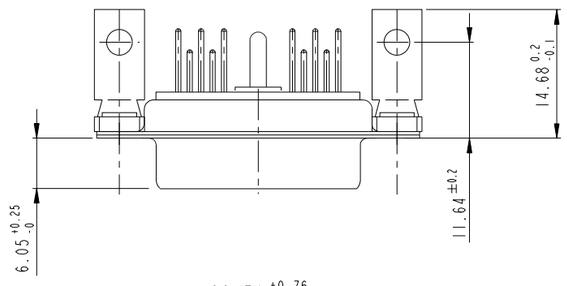
11W1

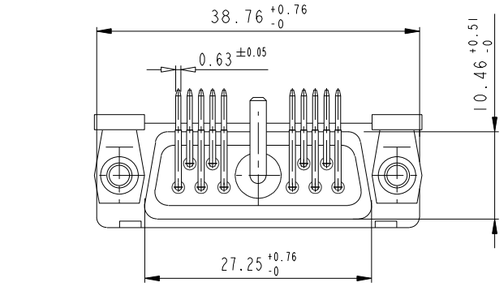
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





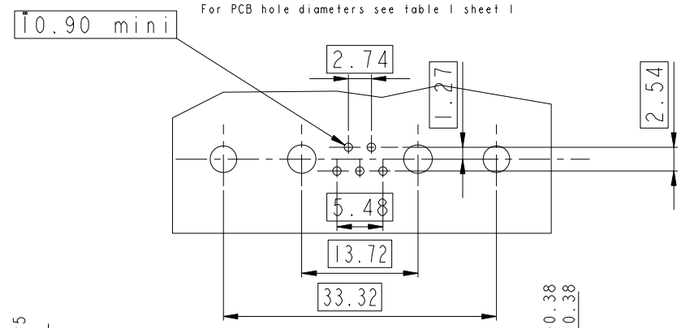


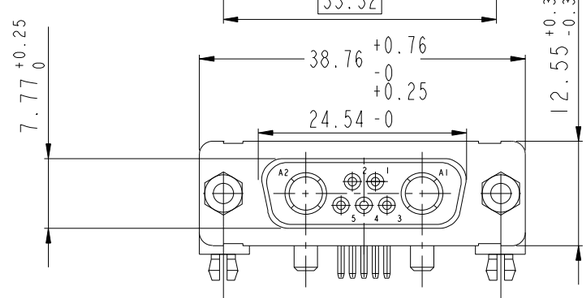


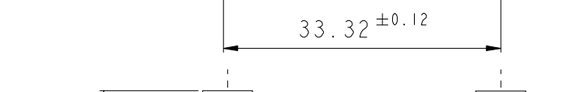
7W2

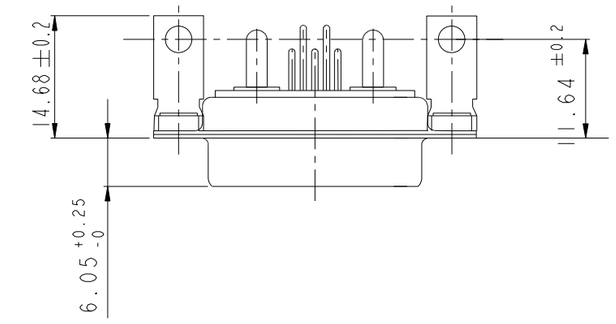
LAYOUT AND CONNECTOR DIMENSIONS

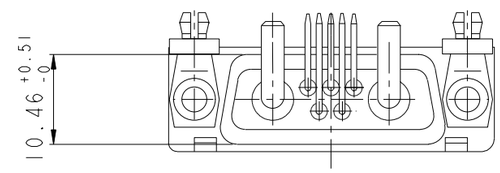
For PCB hole diameters see table 1 sheet 1





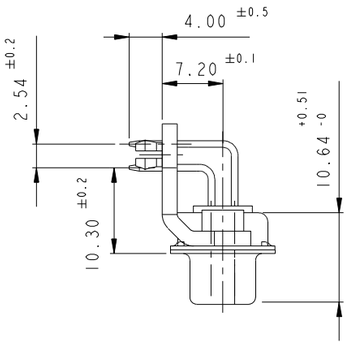




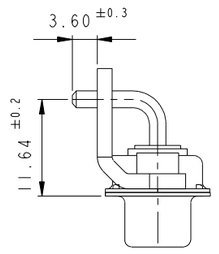


SIDE VIEW FOR ALL LAYOUTS
(except size D)

VIEW WITHOUT POWERS CONTACTS



VIEW WITH POWERS CONTACTS



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www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX	±0.1		
Chr			0° ±2°		0.XXX	±0.05	ECN	F10-0060
Appr			Product family -				Spec ref	
title	SUB FEMALE DMW EUROPE mixed power right angled solder						dwg no C01-8639-2300	Rev. E
catalog no -							CUSTOMER	sheet 4 of 7

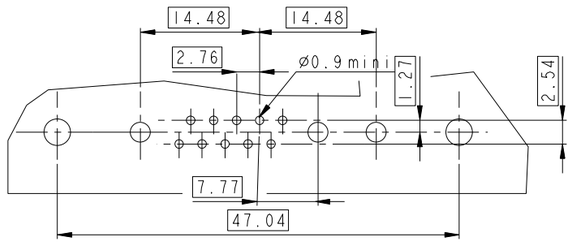
REV E - 2006-03-28

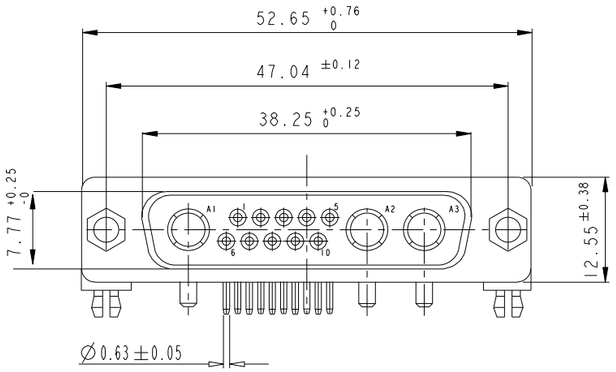
PDM: Rev:E STATUS:Released Printed: Oct 01, 2010

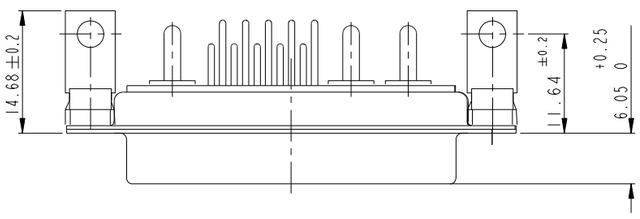
13W3

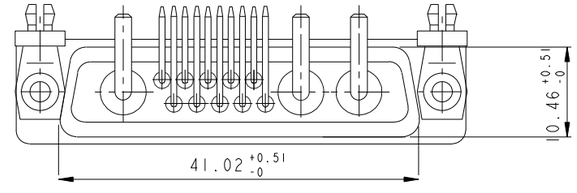
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

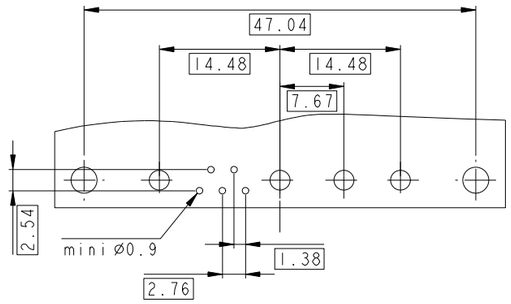






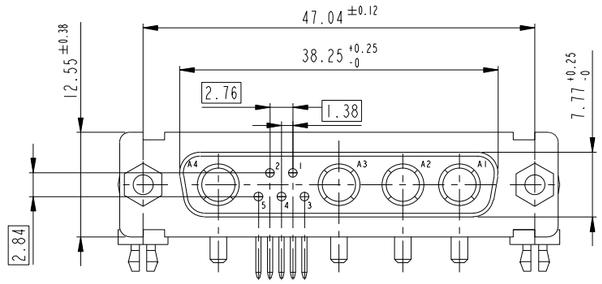


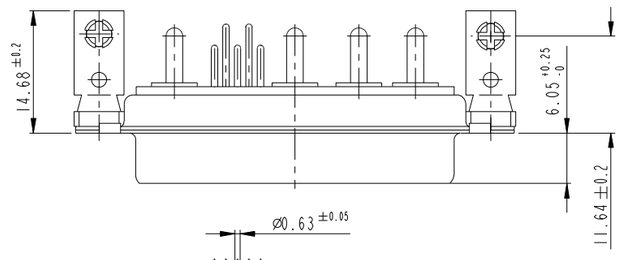
9W4

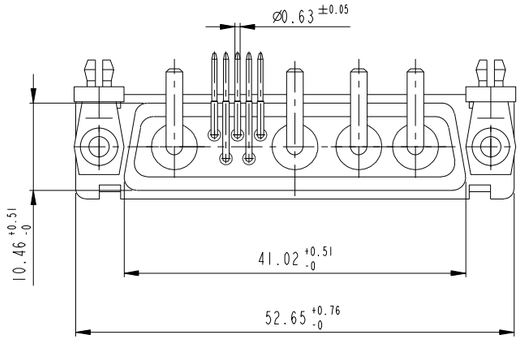


LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





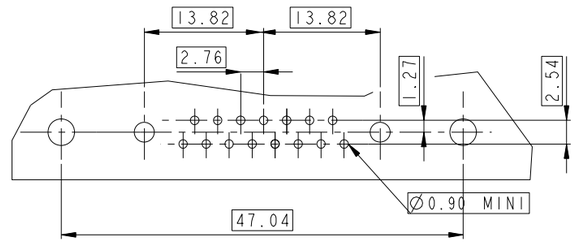


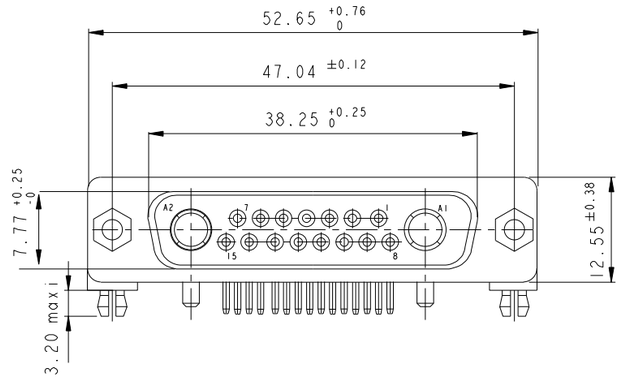
Floating signal contacts

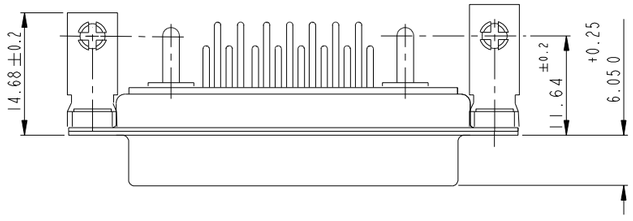
17W2

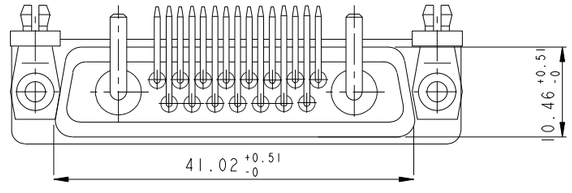
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









www.fciconnect.com			surface - ISO 1302		tolerance std ISO 406 ISO 1101		projection	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX	±0.1		
Chr			0° ±2°		0.XXX	±0.05	ECN F10-0060	
Appr			Product family -				Spec ref	
title: SUB FEMALE DMW EUROPE mixed power right angled solder					dwg no: C01-8639-2300		Rev. E	
catalog no -					CUSTOMER		sheet 5 of 7	

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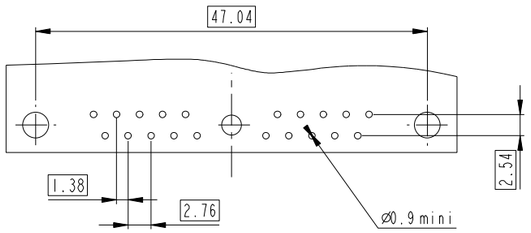
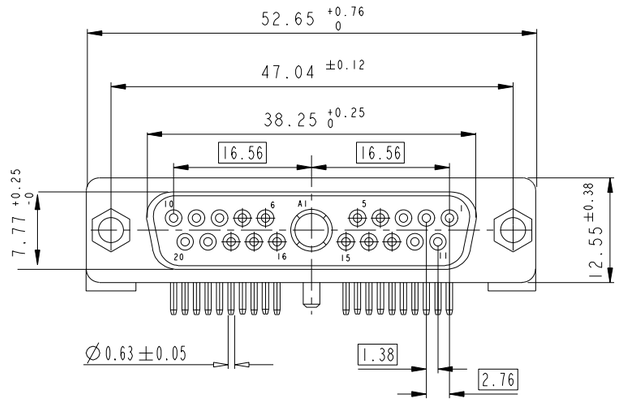
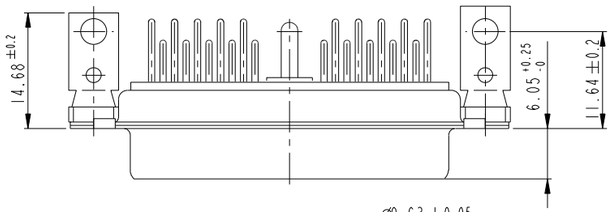
21W1

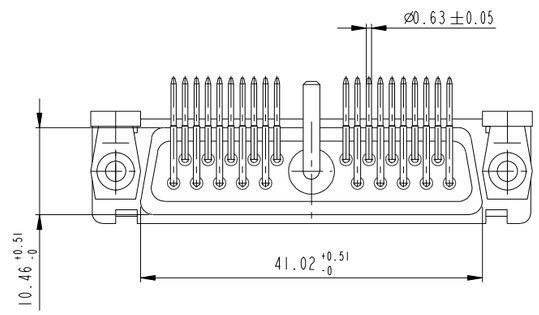
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





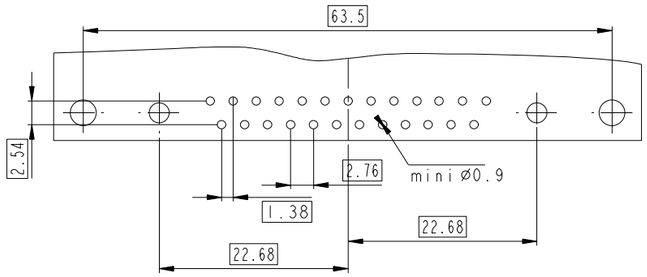


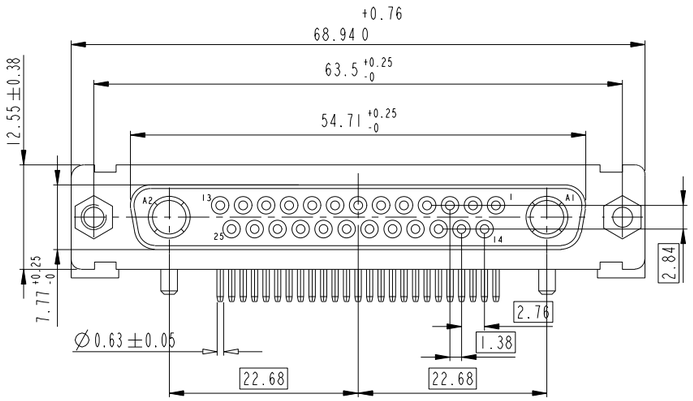


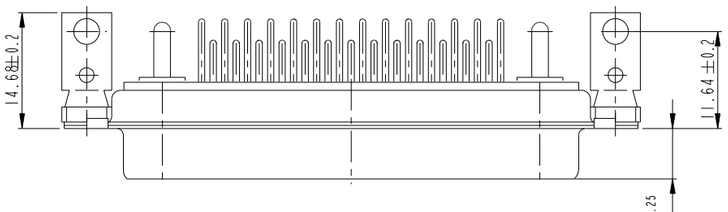
27W2

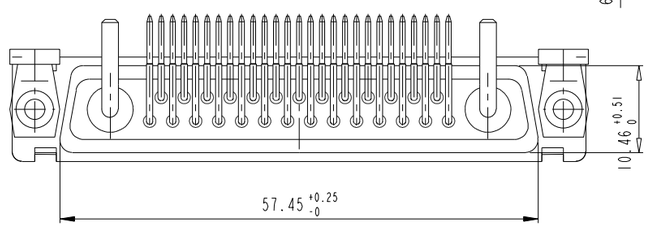
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









www.fciconnect.com			surface ISO 1302	-	tolerance std ISO 406 ISO 1101		projection	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX	±0.1		
Chr			0°	±2°	0.XXX	±0.05	ECN	F10-0060
Appr			Product family		-		Spec ref	
title	SUB FEMALE DMW EUROPE mixed power right angled solder						dwg no	C01-8639-2300 Rev. E
catalog no	-						CUSTOMER	sheet 6 of 7

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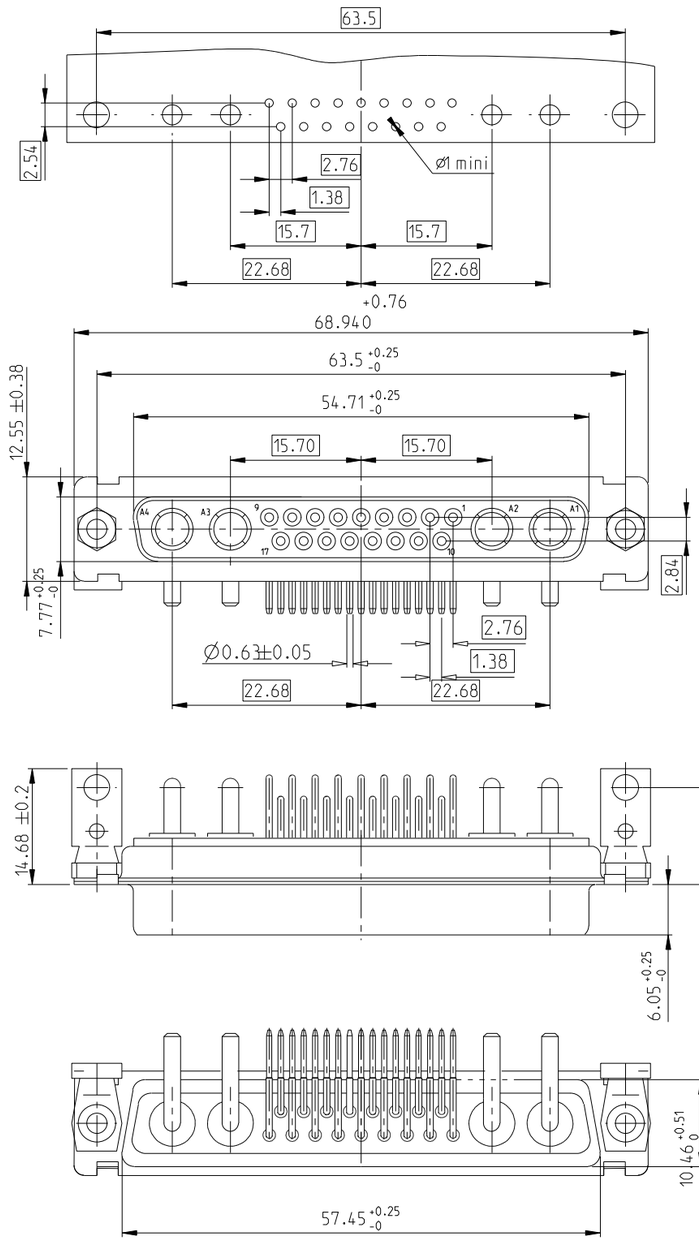
21W A4

LAYOUT AND CONNECTOR DIMENSIONS

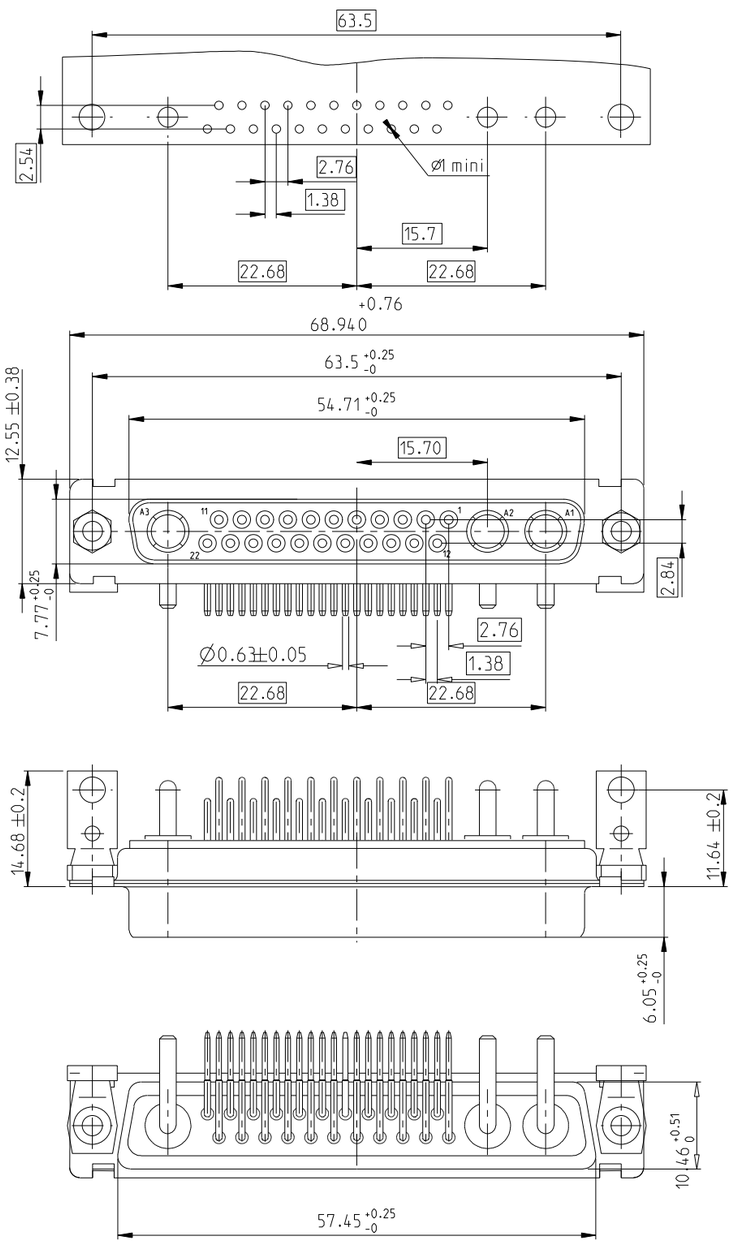
For PCB hole diameters see table 1 sheet 1



25W 3

LAYOUT AND CONNECTOR DIMENSIONS

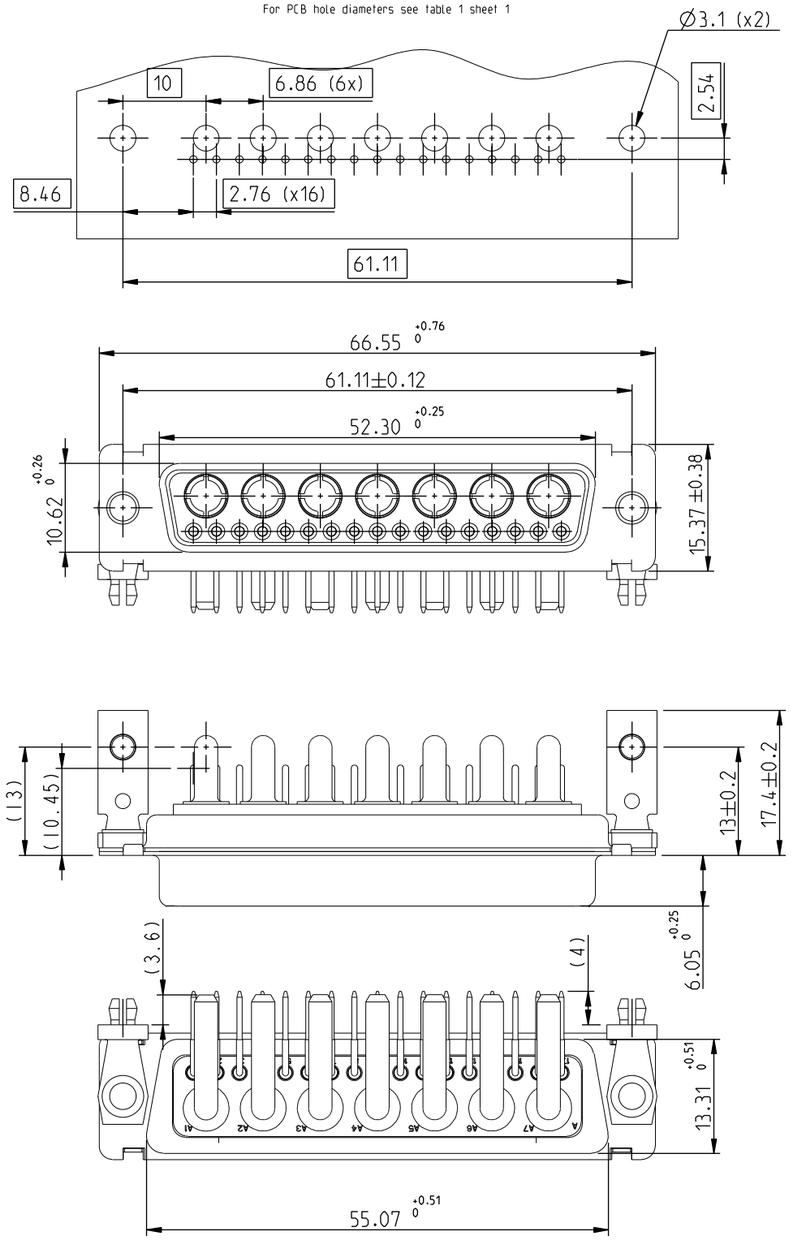
For PCB hole diameters see table 1 sheet 1



24W 7

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



www.fciconnect.com			surface ISO 1302	-	tolerance std ISO 406 ISO 1101		projection	mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X	±0.3	size A2	Scale 2:1	
Eng	P LEGARE	2005-10-11			0.XX	±0.1			
Chr			0° ±2°		0.XXX	±0.05	ECN	F10-0060	
Appr			Product family		-		Spec ref		
title	SUB FEMALE DMW EUROPE mixed power right angled solder				dwg no	C01-8639-2300		Rev. E	
catalog no	-				CUSTOMER		sheet 7 of 7		

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