REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL:	THERMOPLASTIC UL94V0
-CONTACT MATERIAL:	BRASS(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

- CLIMATIC CATEGORY:	55/125/21
	TEMPERATURE RANGE -55°C TO +125°C
	DAMP HEAT STEADY STATE 21 DAYS
	SALT SPRAY 48 HOURS
- 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 1.27 µmi+Sn 2.5 to 7.5 µ,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4 µm Cu + 3 to 10 µmm Sn,pure bright
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

DBL13W3S300G30LF

Series

Shell size: **E A B C D** see sheet 2

Front accessory definition see sheet 2

- **(blank)** :No shell accessory
- **L** :Threaded insert M3
- **O** :Threaded insert UNC 4-40
- **V** :Female screw UNC 4-40
- **I** :Female screw UNC M3

Layout of contacts (see sheet 3)

Contacts

- **S** :Socket

Termination type

- **3** Straight version

Plating

- **00** 200 matings/unmatings
- **43** 500 matings/unmatings

PCB accessories definition see sheet 2

- **A** : No PCB accessory
- **H** : Harpoons for PCB 2.40mm
- **G** : Harpoons for PCB 1.60mm

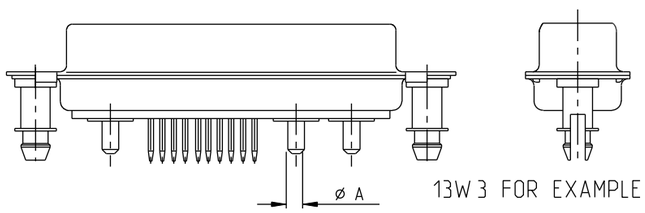
Power contacts

- **00** :Not fitted with power contact
- **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 CONTACTS
30 A	2.00	ø2.40	Ø3.10	ø0.90 min
40 A	2.80	3.10		
Max current power	ØA +0.1 0	PCB HOLE +/-0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



13W3 FOR EXAMPLE

rev	ecn no	dr	date
H	F09-0092	LSA	2009/09/16
J	F10-0035	LSA	2010/04/14
-	-	-	-
D	LS07-0165	MPE	2007/06/14
E	LS07-0273	MPE	2007/10/31
F	LS08-0067	MPE	2008/03/10
G	LS09-0027	MPE	2009/01/21

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
Eng	P LEGARE	2005-10-11			0.XX	±0.1
Chr			0° ±2°		0.XXX	±0.05
Appr			Product family		-	

size A2 | Scale 2:1 | ECN F10-0035 | Spec ref

title: SUB SOCKET DW mixed power straight solder | dwg no C01-8639-2302 | Rev. J

catalog no - | CUSTOMER | sheet 1 of 7

REV E - 2006-03-28

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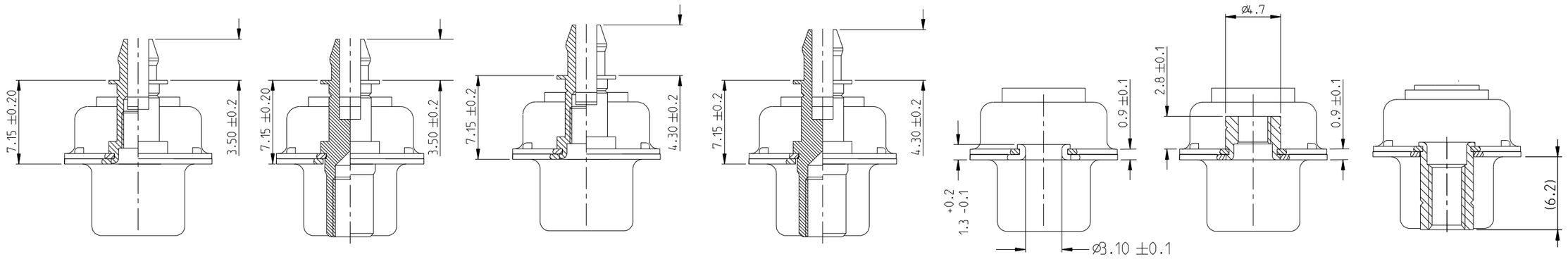

FRONT ACCESSORIES	L O	insert M3 insert UNC 4.40	V I	insert UNC 4.40 Female screw M3	L O	insert M3 insert UNC 4.40	V I	insert UNC 4.40 Female screw M3	(Blank)	without	L O	insert M3 insert UNC 4.40	V I	Female screw UNC 4-40 Female screw M3
PCB ACCESSORIES	G	Harpoon for PCB 1.60mm	G	Harpoon for PCB 1.60mm	H	Harpoon for PCB 2.40mm	H	Harpoon for PCB 2.40mm	A	without	A	without	A	without

(this part of the table is not detailled in tables below)

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS300G30LF	30	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G30LF	30	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G30LF	30	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H30LF	30	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H30LF	30	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H30LF	30	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS300G40LF	40	200	insert M3	harpoon PCB 1.60mm
D*OxWxS300G40LF	40	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS300G40LF	40	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS300H40LF	40	200	insert M3	harpoon PCB 2.40mm
D*OxWxS300H40LF	40	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS300H40LF	40	200	female screw UNC 4.40	harpoon PCB 2.40mm

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	47WI
D	24W7
D	36W4

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxS343G30LF	30	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G30LF	30	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G30LF	30	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H30LF	30	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H30LF	30	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H30LF	30	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*LxWxS343G40LF	40	500	insert M3	harpoon PCB 1.60mm
D*OxWxS343G40LF	40	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxS343G40LF	40	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*LxWxS343H40LF	40	500	insert M3	harpoon PCB 2.40mm
D*OxWxS343H40LF	40	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxS343H40LF	40	500	female screw UNC 4.40	harpoon PCB 2.40mm

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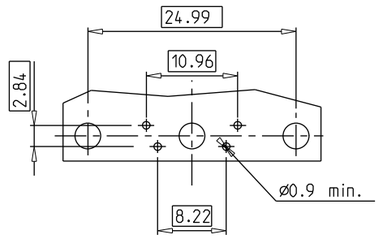
www.fciconnect.com			surface - ISO 1302		tolerance std ISO 406 ISO 1101	projection / mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2005-10-11	ANGULAR	LINEAR	0.X ±0.3	size A2 / Scale 2:1
Eng	P LEGARE	2005-10-11			0.XX ±0.1	
Chr			0° ±2°		0.XXX ±0.05	ECN F10-0035
Appr			Product family -			Spec ref

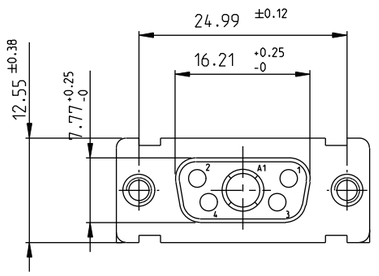
FCI	title: SUB SOCKET DW mixed power straight solder	dwg no C01-8639-2302	Rev. J
	catalog no -	CUSTOMER	sheet 2 of 7

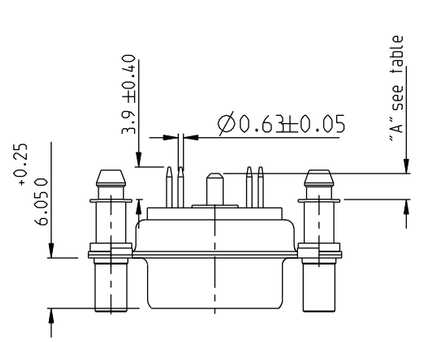
5W1

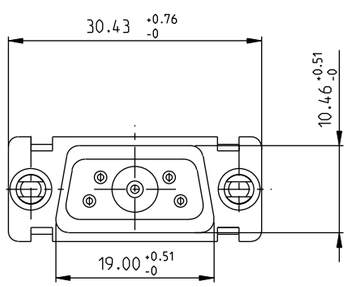
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1







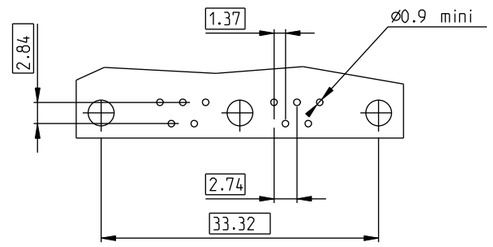


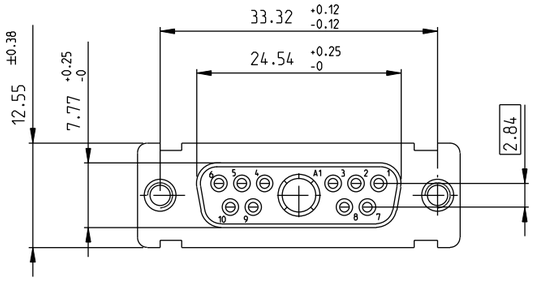
Floating signal contacts

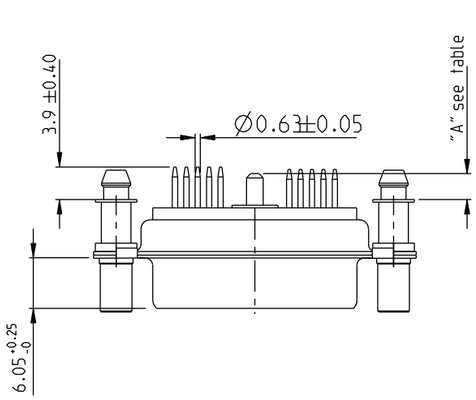
11W1

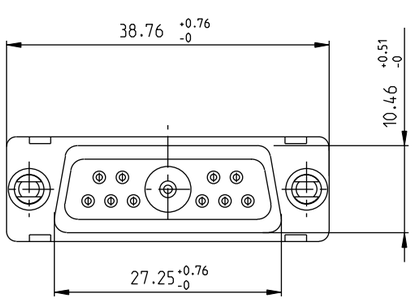
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





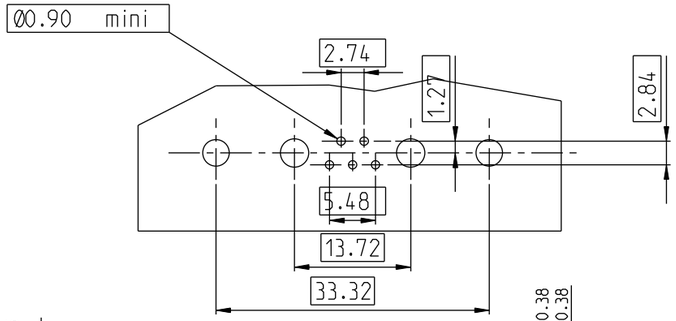


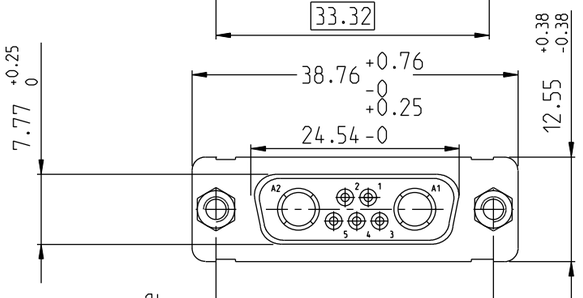


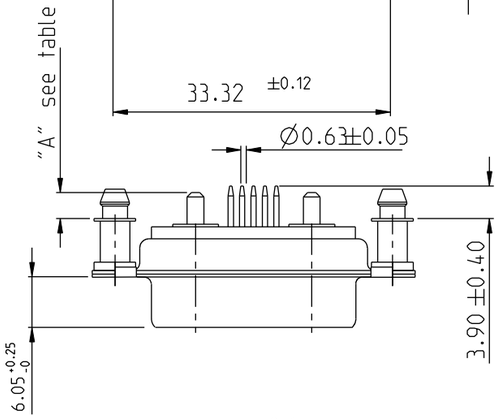
7W2

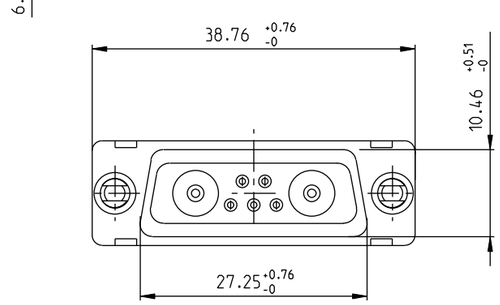
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

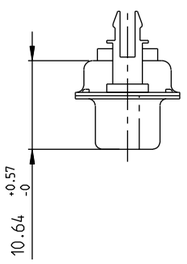








SIDE VIEW FOR
LAYOUTS: E A B C



COTE "A"

30A	3.1±0.25
40A	3.6±0.25

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	F10-0035
Appr			Product family				Spec ref	-
FCI	title: SUB SOCKET DW mixed power straight solder				dwg no: C01-8639-2302		Rev. J	
	catalog no -				CUSTOMER		sheet 3 of 7	

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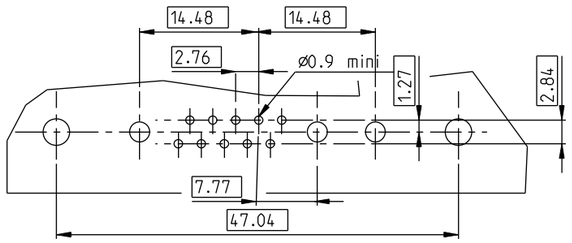
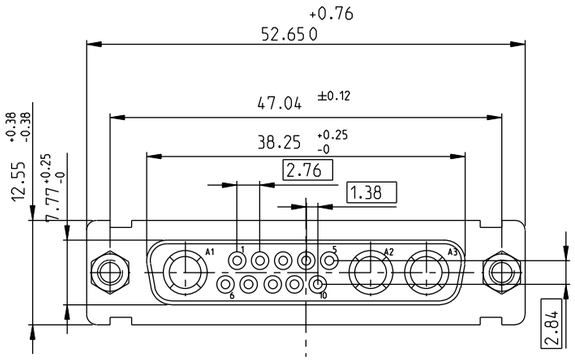
PDS: Rev :J PDM: Rev:J STATUS:Released STATUS: Released Printed: Jun 19, 2015 Printed: Apr 28, 2015

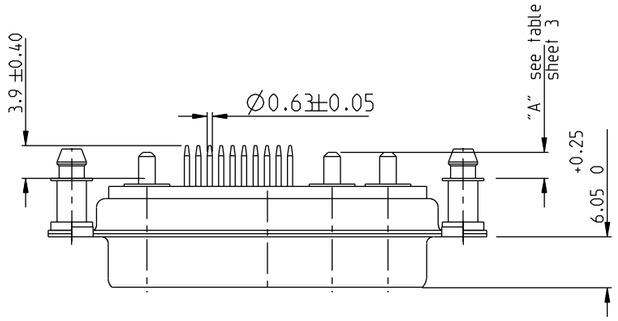
13W3

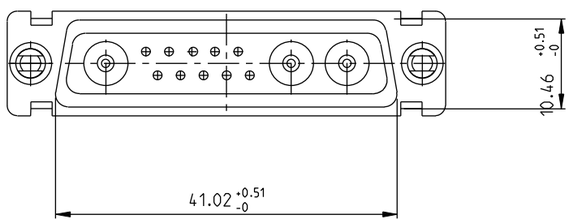
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1

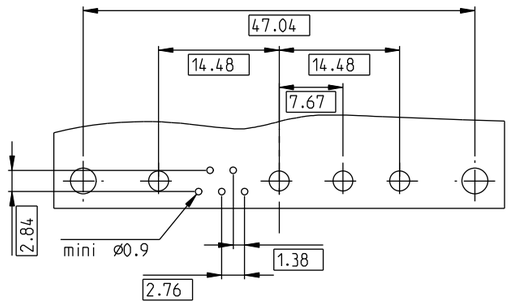






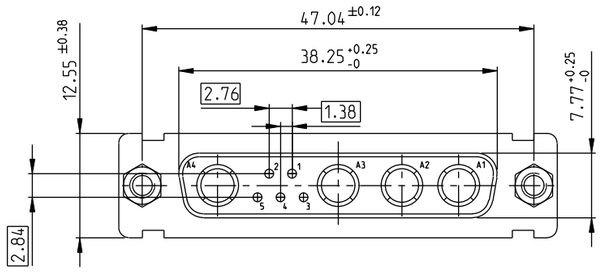


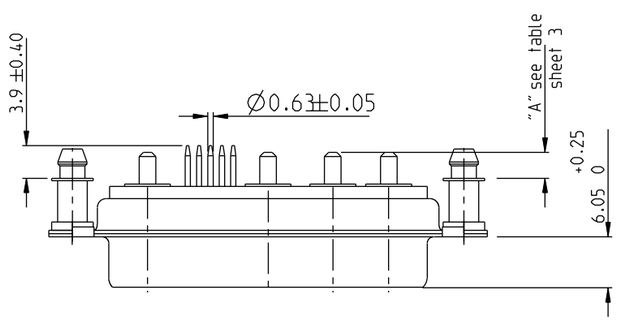
9W4

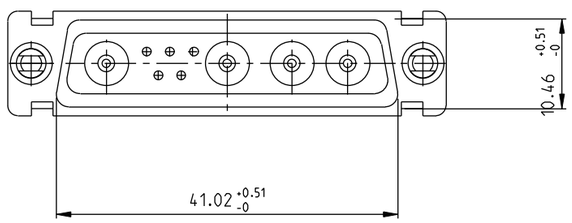


LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1





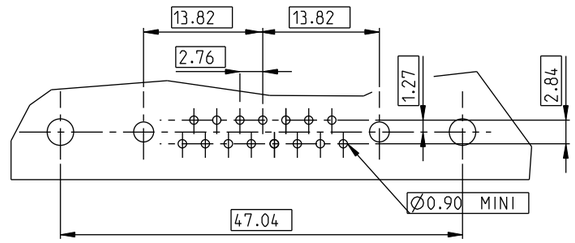


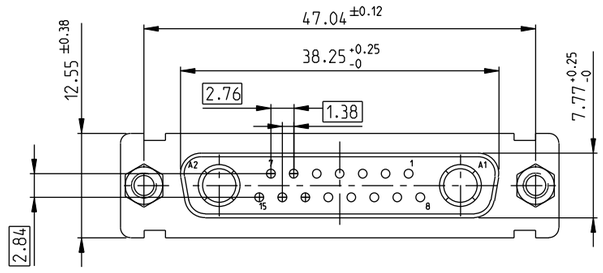
Floating signal contacts

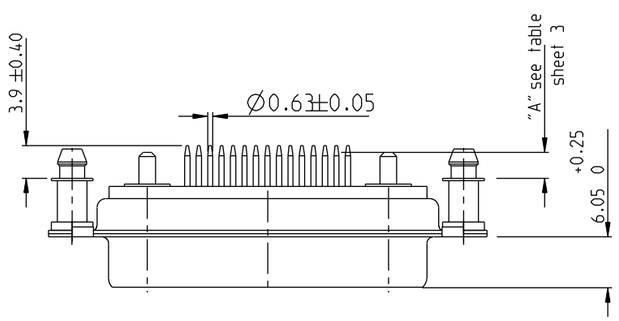
17W2

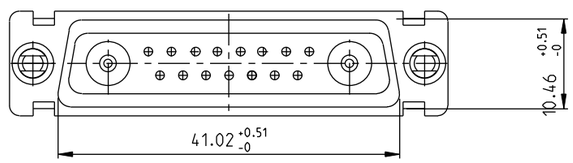
LAYOUT AND CONNECTOR DIMENSIONS

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 OTHERW ISE 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	F10-0035
Appr			Product family			-	Spec ref	
FCI	title: SUB SOCKET DW mixed power straight solder				dwg no: C01-8639-2302			Rev. J
	catalog no -				CUSTOMER		sheet 4 of 7	

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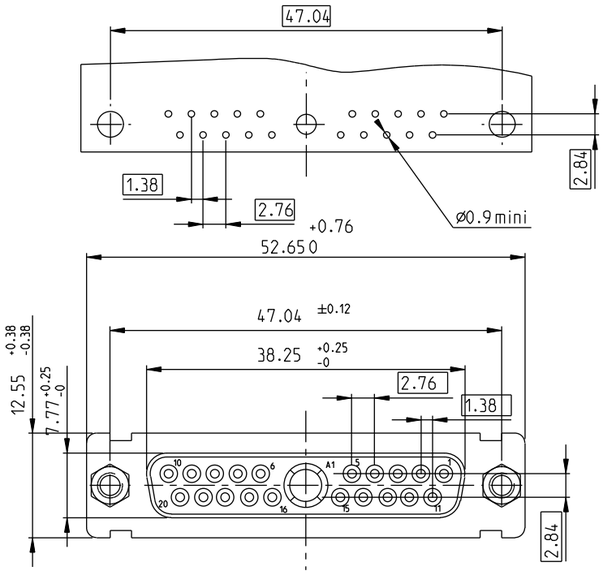
21W 1

LAYOUT AND CONNECTOR DIMENSIONS

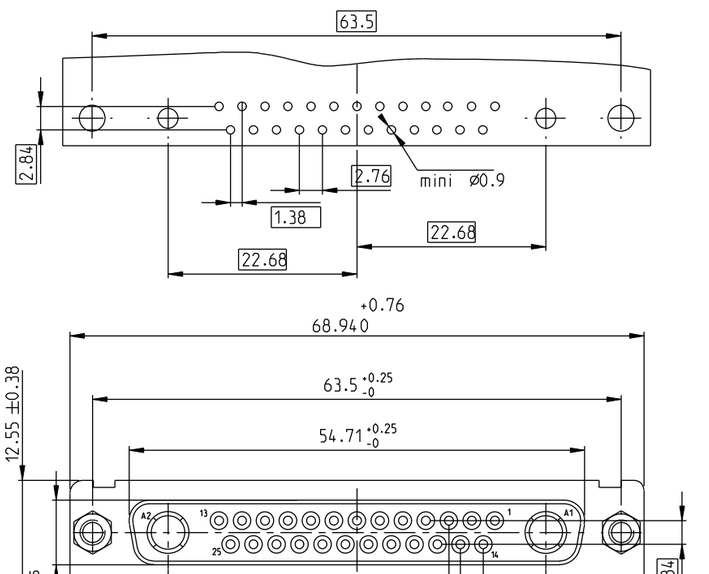
For PCB hole diameters see table 1 sheet 1



27W 2

LAYOUT AND CONNECTOR DIMENSIONS

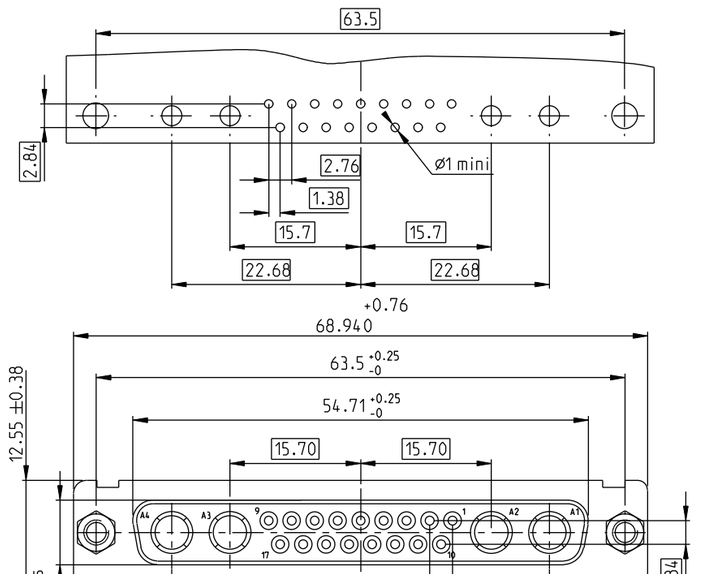
For PCB hole diameters see table 1 sheet 1



21W A4

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	F10-0035
Appr			Product family			-	Spec ref	
title	SUB SOCKET DW mixed power straight solder				dwg no	C01-8639-2302		Rev. J
catalog no	-				CUSTOMER		sheet 5 of 7	

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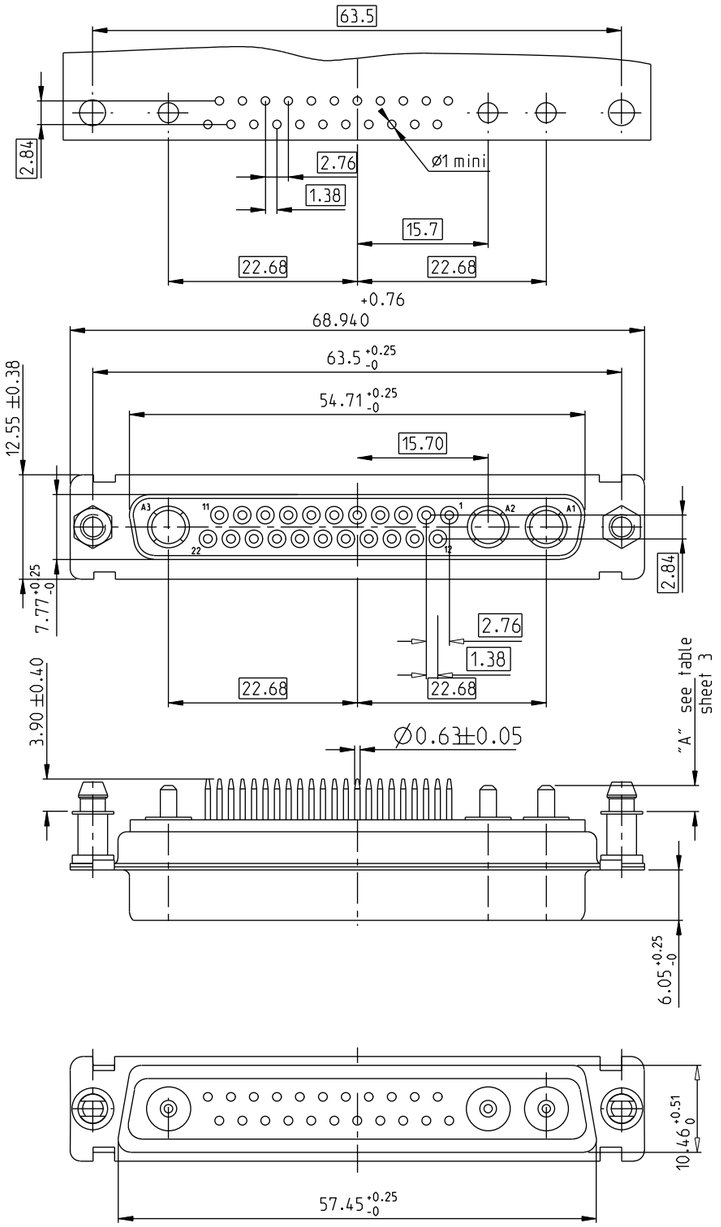
PDS: Rev :J STATUS:Released PDM: Rev:J STATUS:Released Printed: Jun 19, 2015 Printed: Apr 28, 2015

25W3

LAYOUT AND CONNECTOR DIMENSIONS

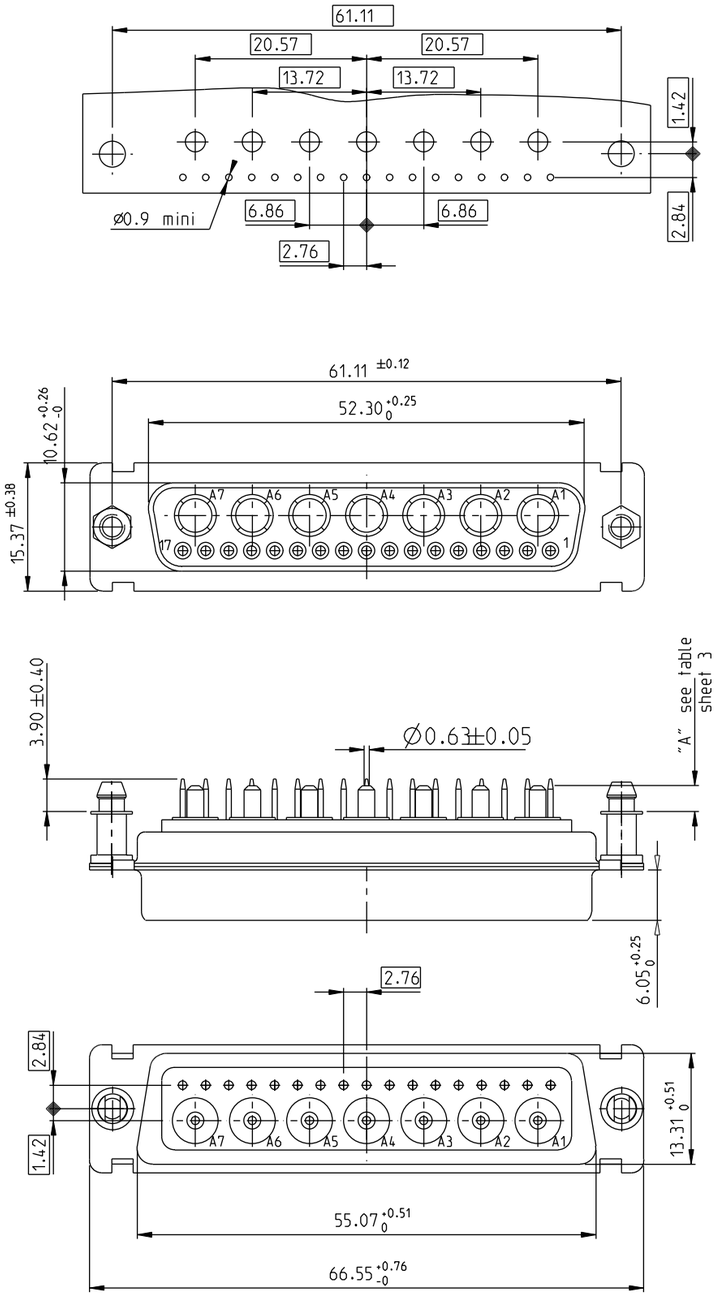
For PCB hole diameters see table 1 sheet 1



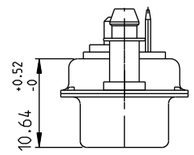
24W7

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR LAYOUTS: D



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 F10-0035	
Appr			Product family		-	Spec ref	
FCI	title: SUB SOCKET DW mixed power straight solder					dwg no C01-8639-2302	Rev. J
	catalog no -					CUSTOMER	sheet 6 of 7

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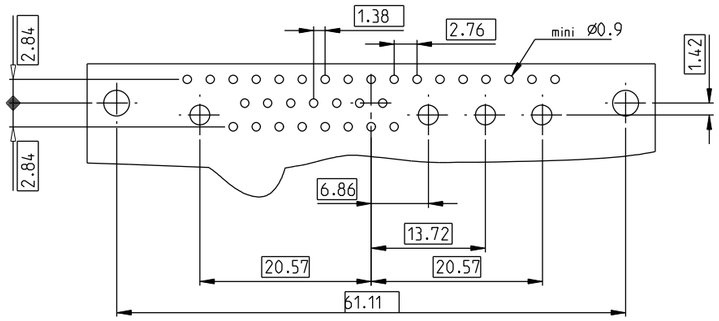
REV E - 2006-03-28

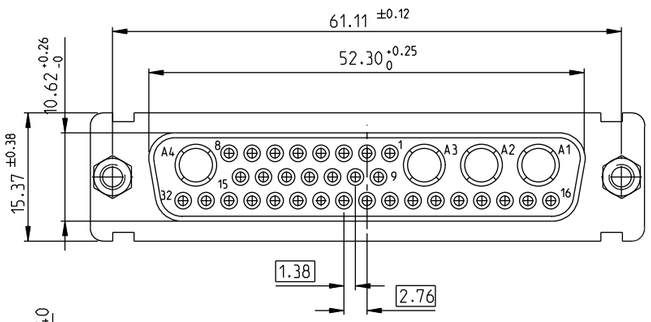
PDS: Rev :J PDM: Rev:J STATUS:Released STATUS: Released Printed: Jun 19, 2015 Printed: Apr 28, 2015

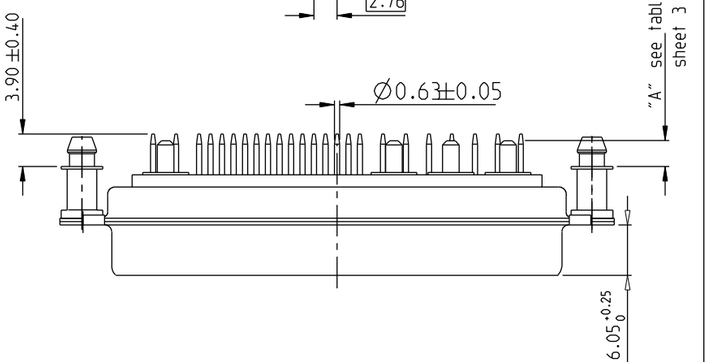
36W4

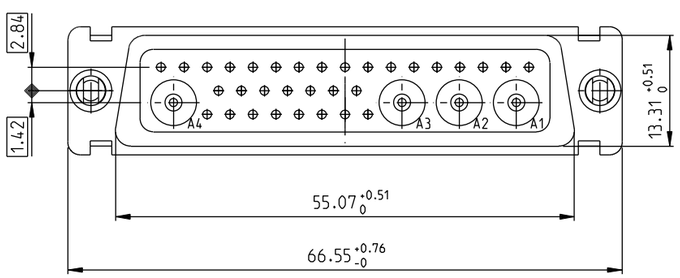
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1







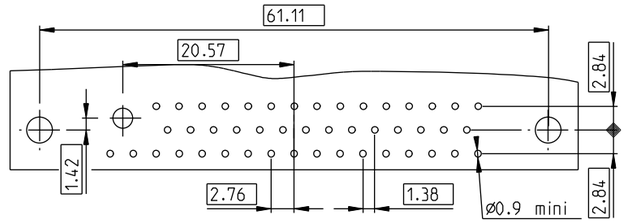


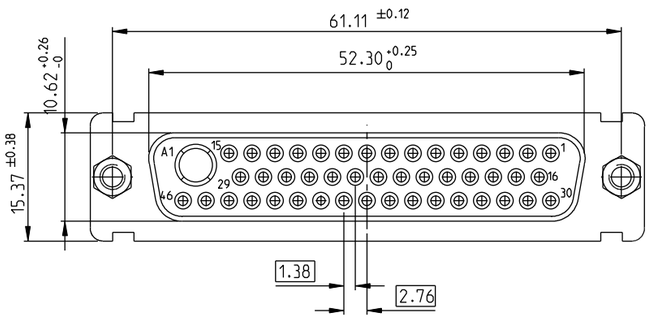
Floating signal contacts

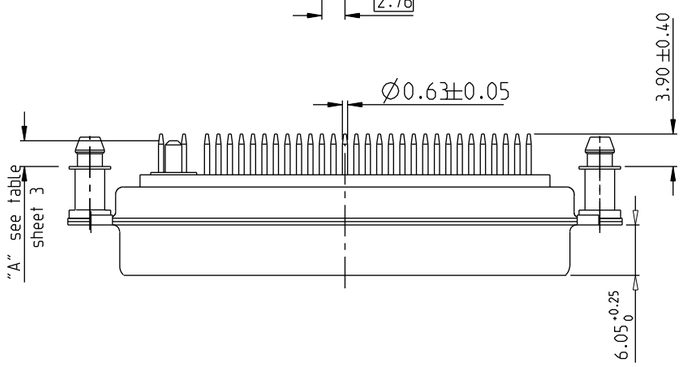
47W1

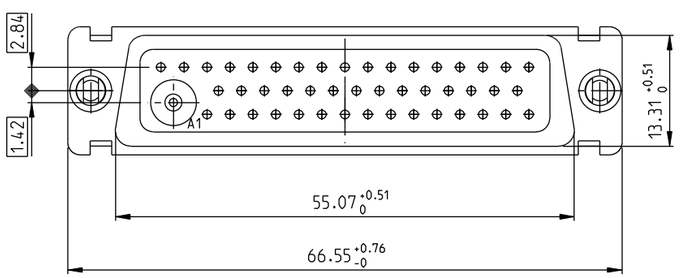
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1









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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		
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Appr			Product family -			Spec ref	
FCI	title: SUB SOCKET DW mixed power straight solder					dwg no: C01-8639-2302	Rev. J
	catalog no -					CUSTOMER	sheet 7 of 7

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