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 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 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:
  - Ni 1.27µmi+Sn 2.5 to 7.5µ(pure bright)
- Active area plating spec:
  - Ni + Gold
- Shell plating :2 to 4µm Cu + 3 to 10µmm Sn(pure bright)
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

DBL5W5P300G30LF

Series

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

Front accessory definition
see sheet 2

- **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

- **3** Straight version

Plating

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

PCB accessories definition
see sheet 2

- **H** :harpoons for PCB 2.40mm
- **G** :harpoons for PCB 1.60mm

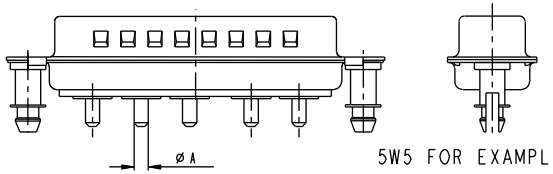
Power contacts

- **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
30 A	2.00	ø2.40	ø3.10
40 A	2.80	3.10	
Max current power	øA +0.1 0	PCB HOLE +/-0.1	PCB HOLE +/-0.1



5W5 FOR EXAMPLE

rev	ecn no	dr	date
A	LS05-0113	MPE	2005-10-11
B	LS06-0208	LGO	2006-12-13
C	LS07-0165	MPE	2007/06/14
D	LS07-0273	MPE	2007/11/05
E	LS09-0027	MPE	2009/01/21
F	F09-0063	LSA	2009-07-15
G	F09-0092	LSA	2009/09/16

www.fciconnect.com	surface ISO 1302	tolerance std ISO 406 ISO 1101
	TOLERANCES UNLESS OTHERWISE SPECIFIED	
Dr M PESSON 2005-10-11	ANGULAR	LINEAR 0.X ±0.3
Eng P LEGARE 2005-10-11	0° ±2°	0.XX ±0.1
Chr		0.XXX ±0.05
Appr	Product family -	Spec ref

projection | mm | size A2 | Scale 2:1 | ECN F09-0092

title: SUB MALE DW
full power straight solder

dwg no C01-8639-2314 | Rev. G

catalog no | CUSTOMER | sheet 1 of 4

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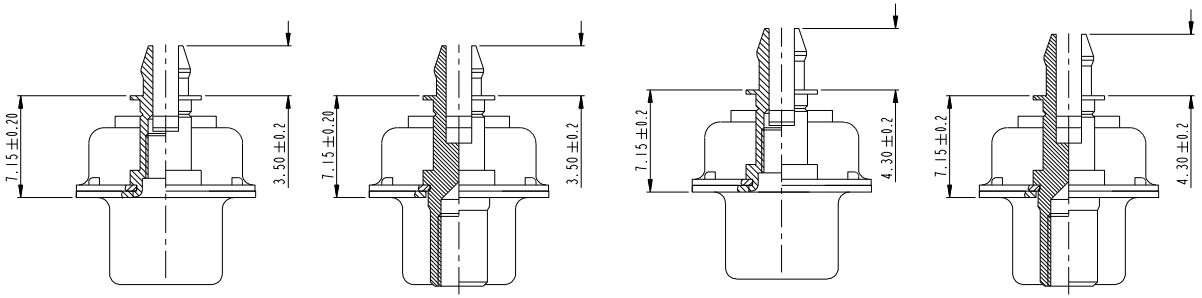

FRONT ACCESSORY	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3	**L** insert M3 **O** insert UNC 4.40	**V** Female screw UNC 4.40 **I** Female screw M3
PCB ACCESSORIES	**G** Harpoon for PCB 1.60mm	**G** Harpoon for PCB 1.60mm	**H** Harpoon for PCB 2.40mm	**H** Harpoon for PCB 2.40mm

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxP300G30LF	30	200	insert M3	harpoon PCB 1.60mm
D*OxWxP300G30LF	30	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP300G30LF	30	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP300G30LF	30	200	female screw M3	harpoon PCB 1.60mm
D*LxWxP300H30LF	30	200	insert M3	harpoon PCB 2.40mm
D*OxWxP300H30LF	30	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP300H30LF	30	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP300H30LF	30	200	female screw M3	harpoon PCB 2.40mm
D*LxWxP300G40LF	40	200	insert M3	harpoon PCB 1.60mm
D*OxWxP300G40LF	40	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP300G40LF	40	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP300G40LF	40	200	female screw M3	harpoon PCB 1.60mm
D*LxWxP300H40LF	40	200	insert M3	harpoon PCB 2.40mm
D*OxWxP300H40LF	40	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP300H40LF	40	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP300H40LF	40	200	female screw M3	harpoon PCB 2.40mm

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

PART NUMBER	AMPS	MATINGS/ UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxP343G30LF	30	500	insert M3	harpoon PCB 1.60mm
D*OxWxP343G30LF	30	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP343G30LF	30	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP343G30LF	30	500	female screw M3	harpoon PCB 1.60mm
D*LxWxP343H30LF	30	500	insert M3	harpoon PCB 2.40mm
D*OxWxP343H30LF	30	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP343H30LF	30	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP343H30LF	30	500	female screw M3	harpoon PCB 2.40mm
D*LxWxP343G40LF	40	500	insert M3	harpoon PCB 1.60mm
D*OxWxP343G40LF	40	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP343G40LF	40	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP343G40LF	40	500	female screw M3	harpoon PCB 1.60mm
D*LxWxP343H40LF	40	500	insert M3	harpoon PCB 2.40mm
D*OxWxP343H40LF	40	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP343H40LF	40	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP343H40LF	40	500	female screw M3	harpoon PCB 2.40mm

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	F09-0092
Appr			Product family -				Spec ref	
title	SUB MALE DW full power straight solder						dwg no	C01-8639-2314 Rev. G
catalog no							CUSTOMER	sheet 2 of 4

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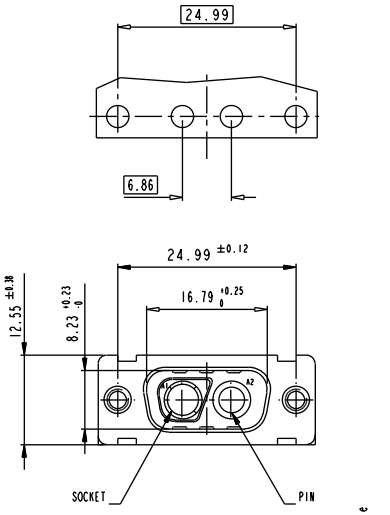
Released Jun 20, 2015

2V2

LAYOUT AND CONNECTOR DIMENSIONS

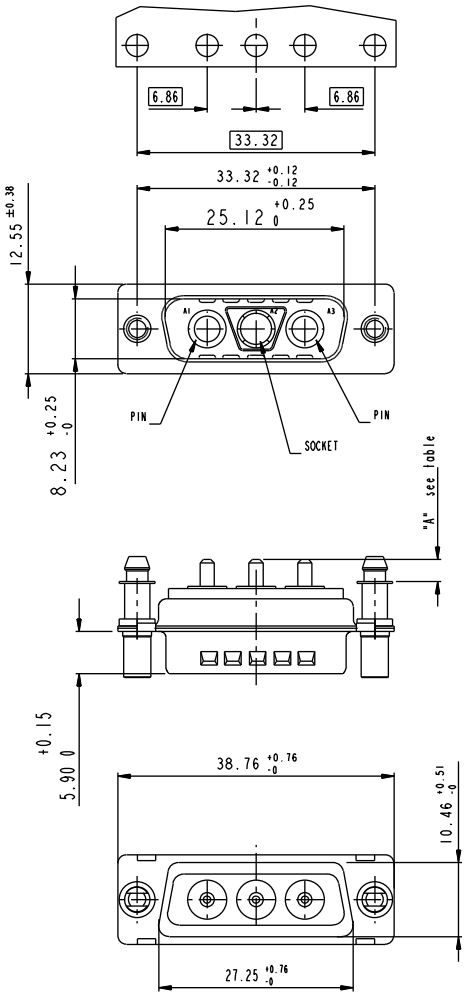
For PCB hole diameters see table 1 sheet 1



3V3

LAYOUT AND CONNECTOR DIMENSIONS

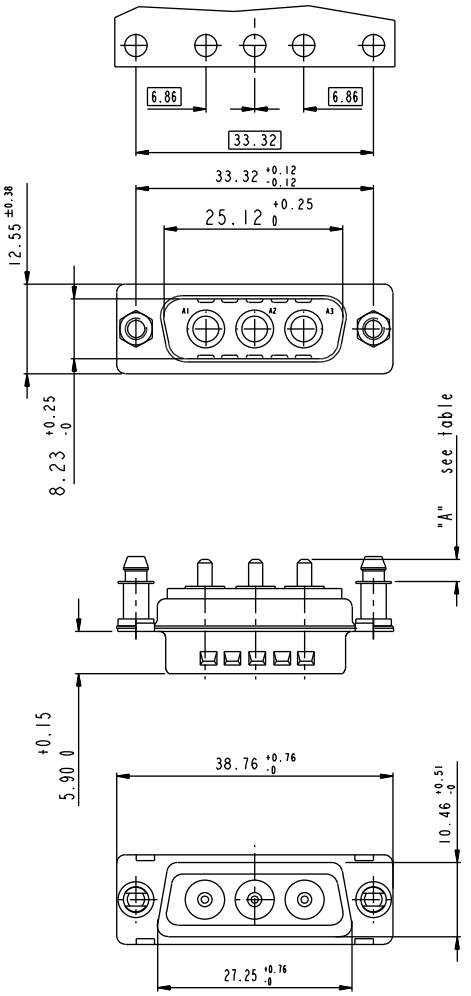
For PCB hole diameters see table 1 sheet 1



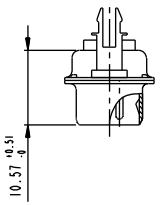
3W3

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR 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	F09-0092	
Appr			Product family -				Spec ref		
FCI	title	SUB MALE DW full power straight solder					dwg no	C01-8639-2314	Rev. G
	catalog no						CUSTOMER		sheet 3 of 4

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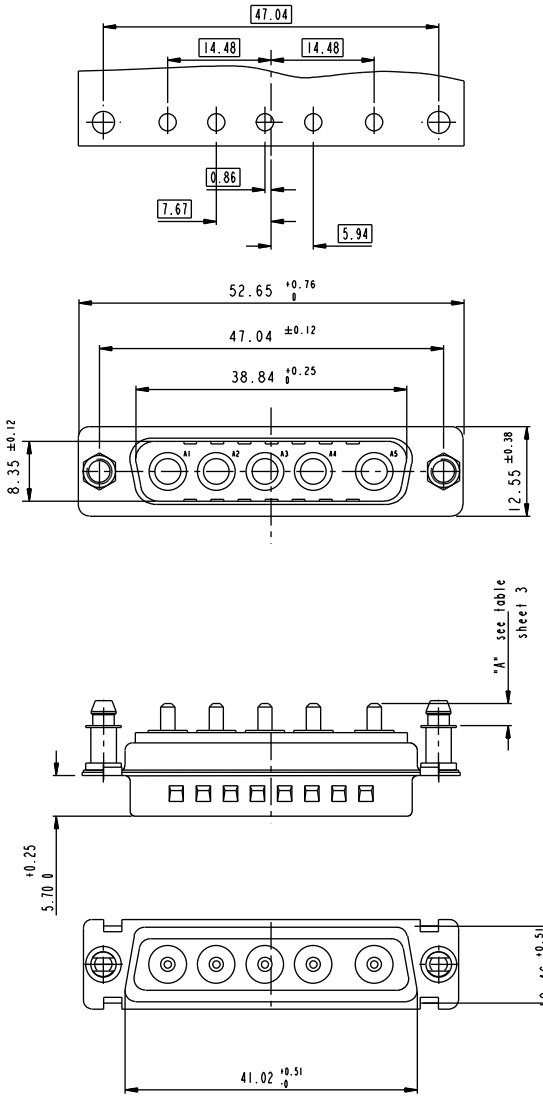
5W5

LAYOUT AND CONNECTOR DIMENSIONS

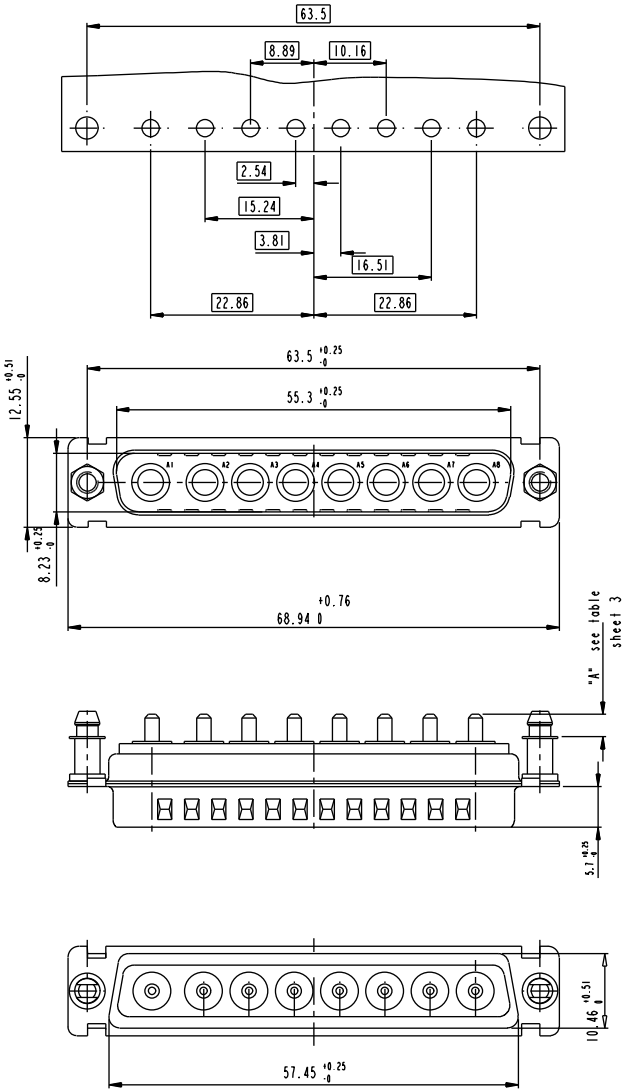
For PCB hole diameters see table 1 sheet 1



8W8

LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



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	F09-0092
Appr			Product family		-		Spec ref	
FCI	title: SUB MALE DW full power straight solder						dwg no: C01-8639-2314	Rev. G
	catalog no: -						CUSTOMER	sheet 4 of 4

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