D–SUBMINIATURE MIXED AND FULL POWER DW SERIES

OVERVIEW

FCI's D–Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These proven D–Subminiature connectors are one of the most popular Input/Output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer, Industrial, Military, Instrumentation and Medical. Since many years FCI has been offering a wide range of D–Subminiature connectors to meet various design requirements including those in harsh environment.

FCI offers full power and mixed power versions which has been specifically developed for power applications in industrial and telecom market segment. PC board connectors are delivered with preloaded power contacts (10 – 40A). Cable crimp and solder power contacts are delivered with colour code plastic clips for an easy wire gauge identification.

FEATURES & BENEFITS

- Power connectors available for PCB & Cable applications
- Available in full power and in mixed layout (signal + power) – 2V2 to 36W4
- Power contacts available in solder, crimp & coaxial types with different current rating options
- Frugal–D design (2 shells + 2 housings) & Delta–D design (1 shell + 1 housing)
- RoHS compliant

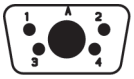
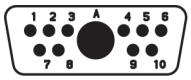
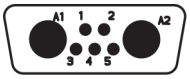
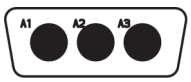
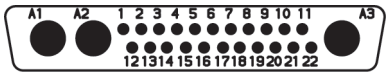
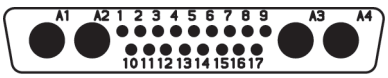
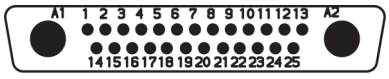
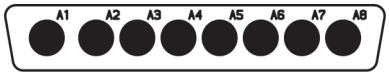
TARGET MARKETS/APPLICATIONS

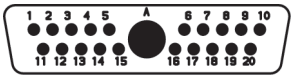
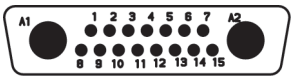
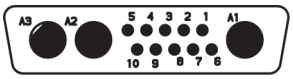
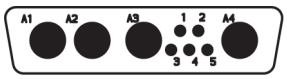
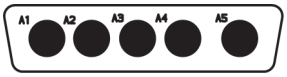
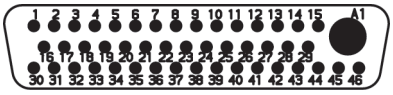
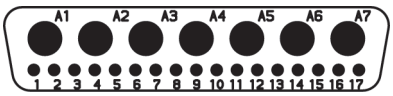
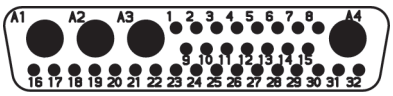
- Data
  - Servers
  - Server & storage blades
  - External storage system
  - HDDs
  - HDD carriers
- Communications
  - Processor & storage blades
  - Mezzanine cards
- Industrial, Instrumentation & Medical
  - Embedded system boards

GENERAL CHARACTERISTICS

LAYOUTS

- Male insulator front view

Shell Size	Layout	
E	2V2 coded	
	5W1	
A	11W1	
	7W2	
	3W3	
	3V3 coded	
C	25W3	
	21WA4	
	27W2	
	8W8	

Shell Size	Layout	
B	21W1	
	17W2	
	13W3	
	9W4	
	5W5	
D	47W1	
	24W7	
	36W4	

Example of layout codification 7W2 = 7 contacts of which 2 power contacts

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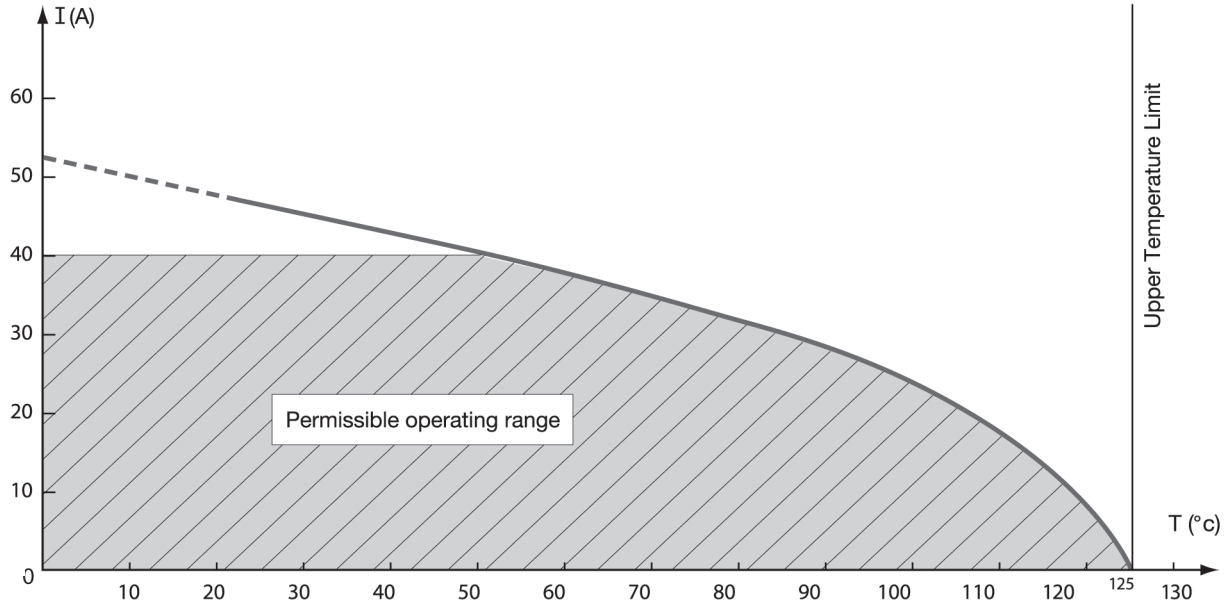
DERATING CURVES

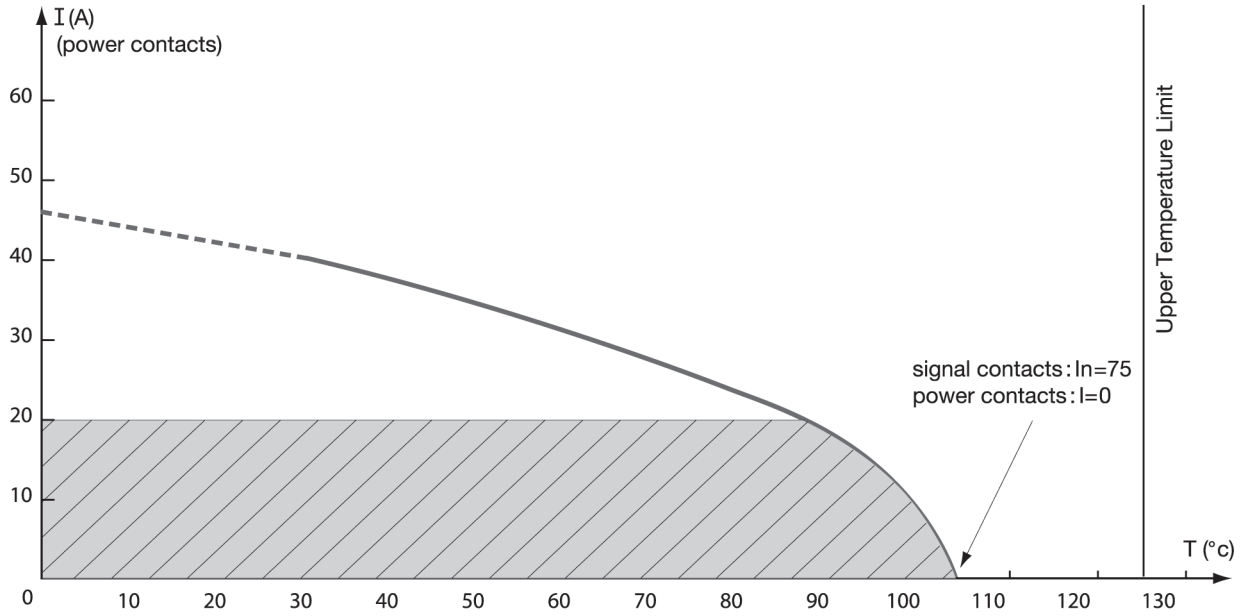
DERATING CURVE ON CONNECTOR DC 8W8 SA 00

- Fitted with contacts 8638 PSC 4005 (female) (I=40A)



DERATING CURVE ON CONNECTOR DB 13N3 PA 00

- Fitted with power contacts 8638 PPS 2005 (I=20A)
  (I signal contacts=7,5A)



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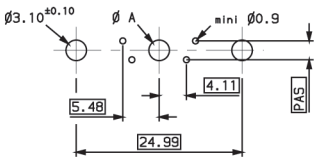
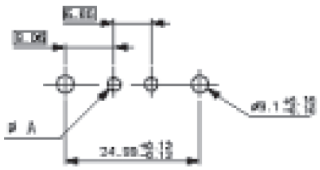
DIMENSIONS

PC BOARD DRILLING

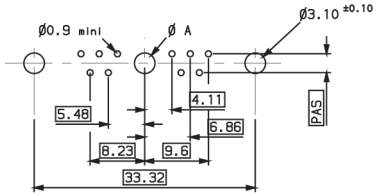
Solder Termination			
Version	Step	30A	40A
		Ø A	
3	2.84	Ø 2.40±0.10	Ø 3.10±0.10
7	2.84	Ø 2.40±0.10	
5	2.84	Ø 2.40±0.10	Ø 3.10±0.10

5W1
(09)

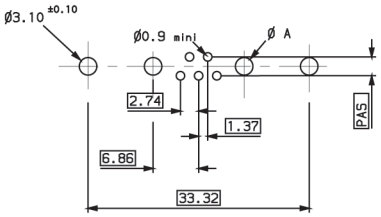




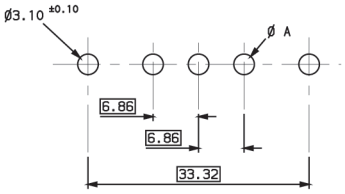
11W1
(15)



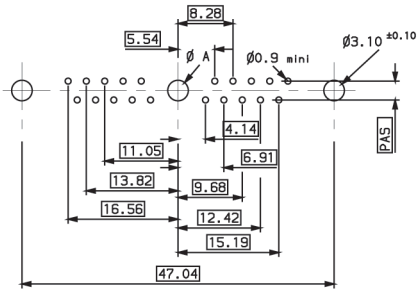
7W2
(15)



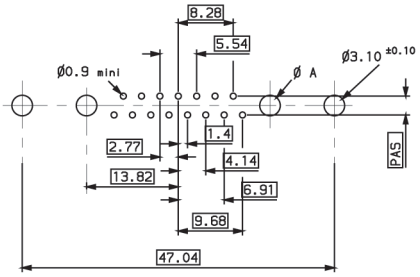
3V3
3W3
(15)



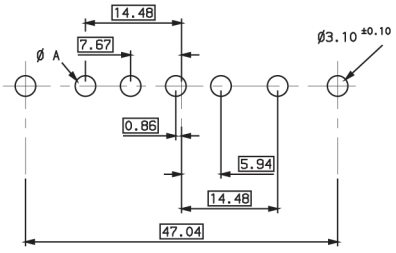
21W1
(25)



17W2
(25)



5W5
(25)



13W3
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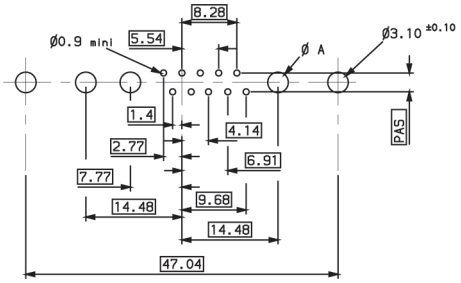
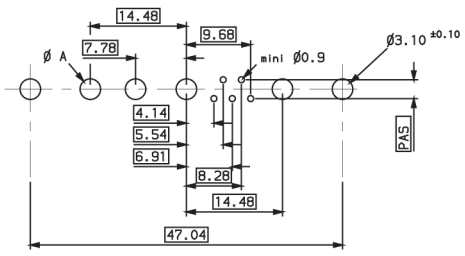


9W4
(25)



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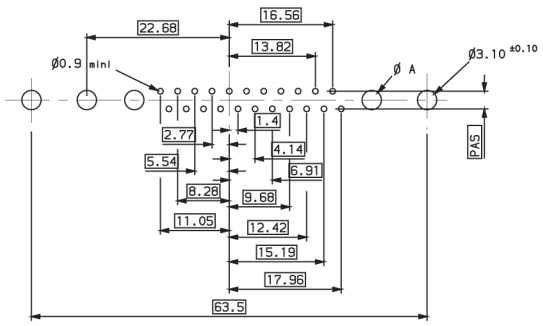
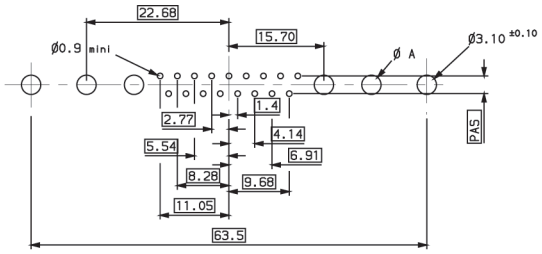
DIMENSIONS

PC BOARD DRILLING

25W3
(37)



21WA4
(37)



27W2
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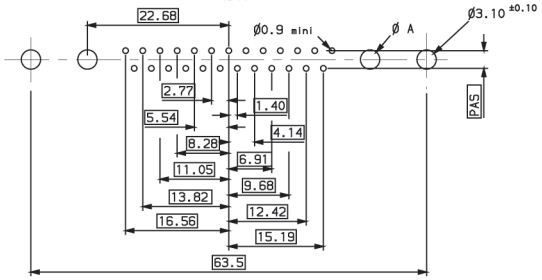
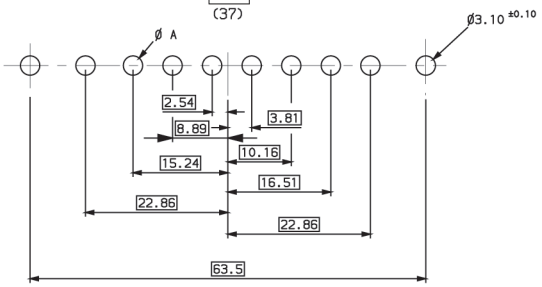
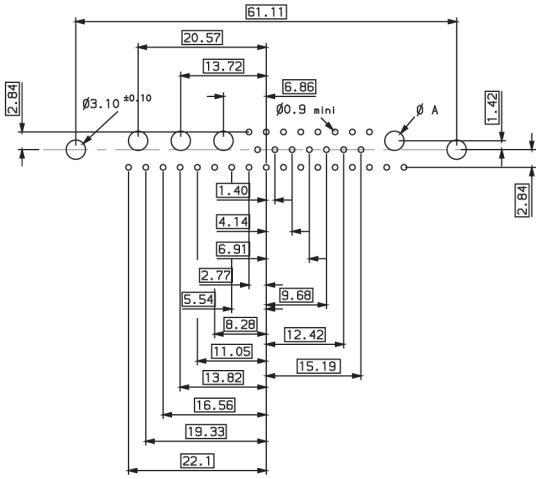


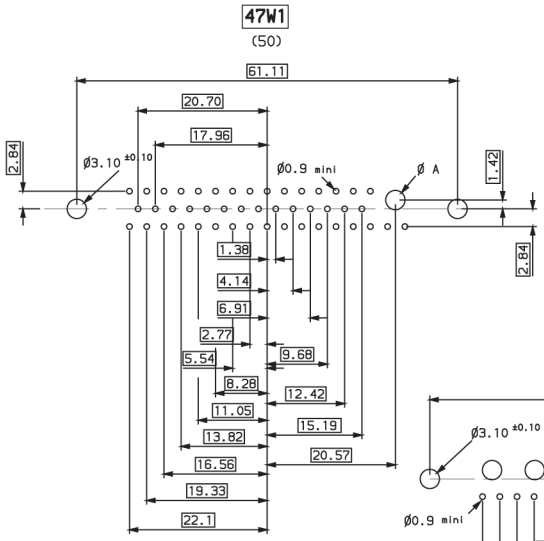
8W8
(37)



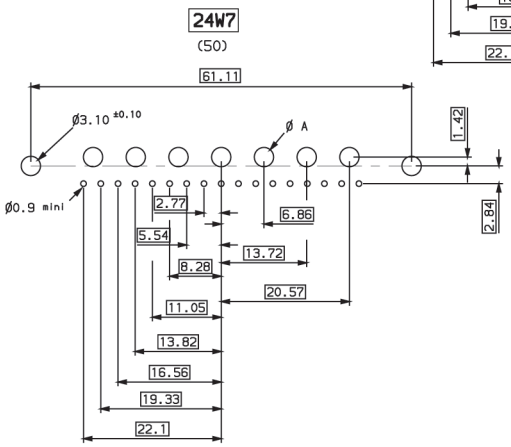
36W4
(50)



47W1
(50)



24W7
(50)



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FULL POWER RIGHT ANGLE SOLDER TO BOARD

UL Recognised File E 118235 (R)

- This monobloc insulator design with stamped and formed signal contacts combines performance and cost effectiveness

ORDERING INFORMATION

D	3 W 3 5 W 5	P	36A	6	GX	08LF
Series	Layouts	Contacts		Durability		Power contacts: Fitted with power contacts 30A, RoHS compatible

Contacts	
Male	P

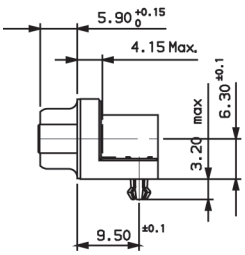
Durability	
High performance class (≤500 mating/unmating)	6

Type	Foot Print	Length of Termination	PCB Thickness	Code
Right angle, US standard, solder	8.08mm	2.50mm	1.6	36A

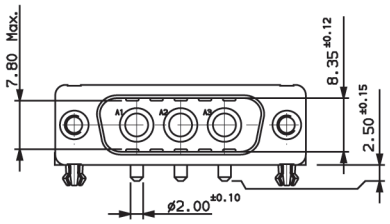
Mounting Options		
Harpoons + insert M3 + elec. continuity	GL	
Harpoons + insert UNC 4–40 + elec. continuity	GX	√
Harpoons + female screw UNC 4–40 + elec. continuity	GV	√

Preferred option √

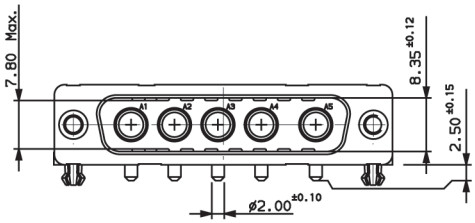
SPECIFIC DIMENSIONS



3W3



5W5



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STRAIGHT AND RIGHT ANGLE PC BOARD VERSIONS

UL Recognised File E 118235 (R)

ORDERING INFORMATION

D **B** **L** **13 W 3** **P** **3** **00** **G** **30LF**

Series

Shell size (tin plated): E, A, B, C, D (only straight version)

Option 1					
	Blank	L	O	I	V
Straight version		X	X	X	X
Right angled	X	X	X	X	X

X: Available

Blank: without accessory
L: Threaded insert M3
O: Threaded insert UNC 4–40
I: Female screw UNC M3
V: Female screw UNC 4–40

Layout of contacts for right angled versions, 47W1, 24W7, 36W4 non available

Contacts	
Pin	P
Socket	S

Termination Type	
Straight version	3
Right angled / Europe standard	5
Right angled / US standard (5W1, 9W4 non available)	7

Durability	
200 mating/unmating	00
500 mating/unmating	43

Option 2				
	A	H	G	M
Straight version	X	X	X	
Right angled	X	X	X	X

X: Available

A: Without accessory on PCB
H: Locking device used for PCB thickness 2.4mm
O: Locking device used for PCB thickness 1.6mm
M: Metal brackets

Power Contacts	
Fitted with power contacts 30A RoHS compatible	30LF
Fitted with power contacts 40A RoHS compatible	40LF
Without power contacts, RoHS compatible	00LF

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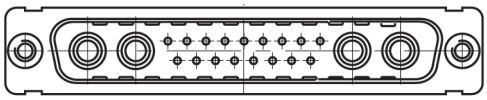
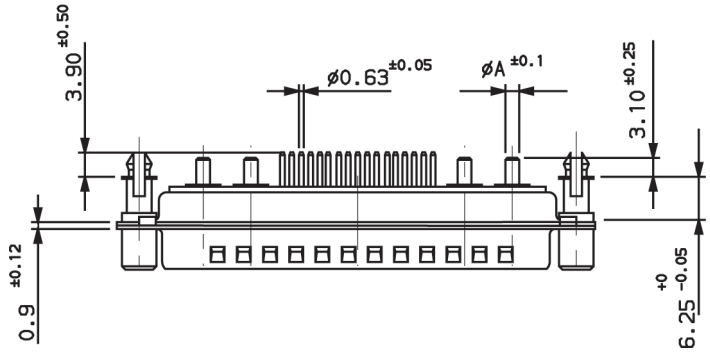
SPECIFIC DIMENSIONS

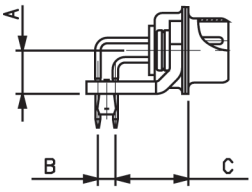
STRAIGHT VERSION

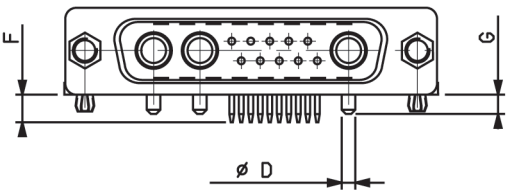
I	30A	40A
Ø A	2.0	2.8

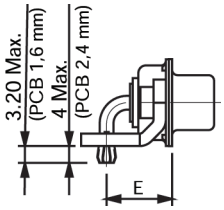




RIGHT ANGLE VERSION







	Termination Type	Amp.	A ±0.10	B ±0.20	C ±0.20	D ±0.10	E ±0.20	F ±0.50	G ±0.30
Europe	5...	30A	7.20	2.54	10.30	2.00	11.65	4.00	3.60
		40A	7.20	2.54	10.30	2.80	11.65	4.00	3.60
U.S	7...	30A	6.30	2.84	8.08	2.00	9.50	3.90	3.60

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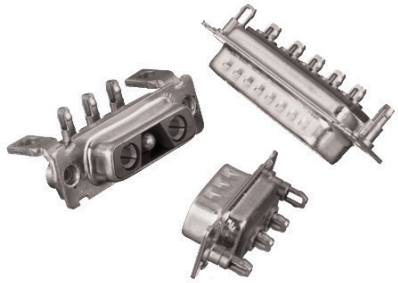
FULL POWER RIGHT ANGLE AND STRAIGHT PRESS–FIT

UL Recognised File E 118235 (R)



ORDERING INFORMATION

D	E	L	2 V 2 3 V 3 3 W 3 5 W 5 8 W 8	P	93C	5	G	40LF
Series	Shell Size (tin plated): E, A, B, C	Front Accessory	Layouts	Contacts	Termination Type	Durability	PCB Accessory	Power Contacts

Power Contacts

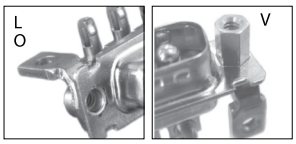
Fitted with power contacts 40A, non RoHS compatible	40
Fitted with power contacts 40A, RoHS compatible	40LF

Front Accessory

	Blank	L	O	I	V
Straight version		X	X		X
Right angled	X	X	X		X

X: Available

Blank: Without accessory
L: Threaded insert M3
O: Threaded insert UNC 4–40
V: Female screw UNC 4–40

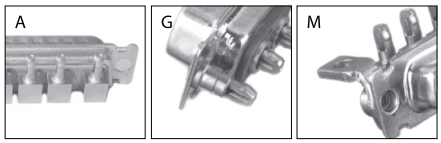


PCB Accessory

	M	G	A
Straight version		X	
Right angled	X		X

X: Available

A: Without accessory
G: Harpoon used for PCB thickness from 1.6mm
M: Metal brackets without harpoon



Contacts

Pin	P
Socket	S

Termination Type

Straight version	93C
Right angle / Europe standard	81C
Right angle / US standard	80C

Durability

200 mating/unmating	5
500 mating/unmating	6

Preferred option √

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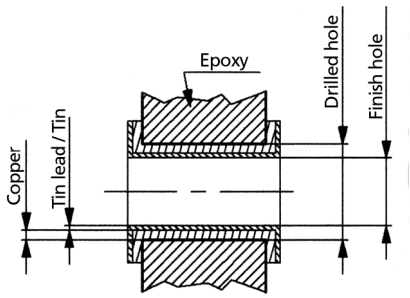
SPECIFIC DIMENSIONS

METALIZED HOLE DIMENSIONS



			Press-fit Contacts	Press-fit Harpoons	
P.C.B hole definition (note 1 and 2)		Drill diameter	Ø 3.22$^{\pm 0.03}$	Ø 3.22$^{\pm 0.03}$	Ø 3.22$^{\pm 0.03}$
		Drilled hole	Ø 3.19 – 3.25	Ø 3.19 – 3.25	
		Copper plating	25µm min. (recommended 50µ max.)	25µm min. (recommended 50µ max.)	
	non RoHS	Tin-lead plating	15µm max. (recommended 5µ min.)	15µm max. (recommended 5µ min.)	
		Finish hole (after reflow)	Ø 3.02 – 3.20	Ø 3.02 – 3.20	
	RoHS	Tin plating	0.8 to 1.2µm	0.8 to 1.2µm	
		Finish hole (after reflow)	Ø 3.08 – 3.20	Ø 3.08 – 3.20	

Note 1: These dimensions must be respected to ensure press-fit pin performance
Note 2: According to IEC-352-S specification
Note 3: Vital requirement for press-fit pin performance

PRESS-FIT PERFORMANCE

	Press-fit Contacts	Press-fit Harpoons
Insertion force	≤200 N (average insertion 160 N)	≤200 N (average insertion 160 N)
Extraction force	≥30 N	≥30 N

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MIXED AND FULL POWER CABLE CONNECTORS

UL Recognised File E 118235 (R)

ORDERING INFORMATION

D	B	L	13 W 3	P	4	00	A	00LF

- D: Series
- B: Shell size (tin plated): E, A, B, C, D
- L: Mounting Options
- 13 W 3: Layout of contacts
- P: Contacts
- 4: Termination Type
- 00: Durability
- A: Without accessory on PCB
- 00LF: RoHS compatible

Mounting Options

Description	Blank	L	O	I	V	F
Solder buckets	X	X	X	X	X	X
Wire wrap	X	X	X	X	X	X

X: Available

Blank: without accessory
√ L: Threaded insert M3
√ O: Threaded insert UNC 4-40
√ I: Female screw UNC 4-40
V: Female screw UNC 4-40
F: Float mounting

Preferred option √

Contacts	
Pin	P
Socket	S

Termination Type	
Solder bucket (blank for plating 00)	0
Wire wrap (3 levels)	4

Durability	
200 mating/unmating	00
500 mating/unmating (blank for solder bucket termination)	43

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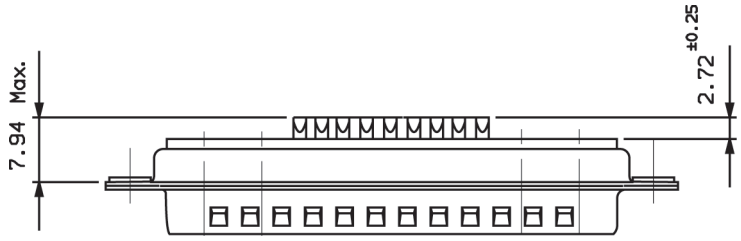
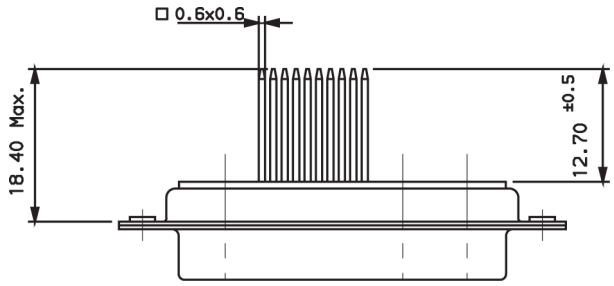
SPECIFIC DIMENSIONS

Solder Bucket

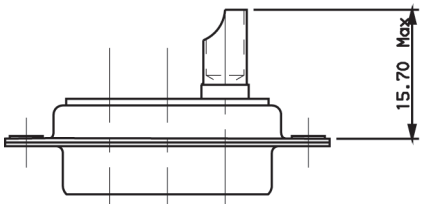


Wire Wrap

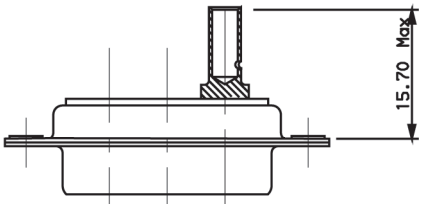
WW (3 levels)



Solder version



Crimp version



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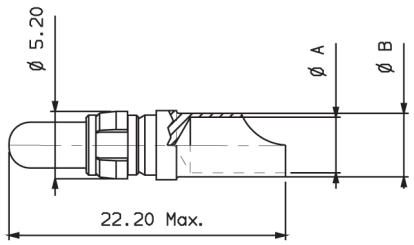
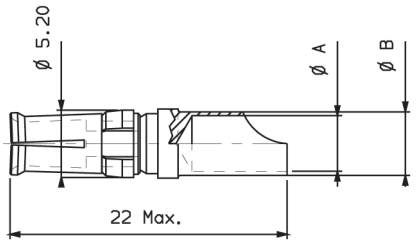
POWER SOLDER AND CRIMP CONTACTS

SOLDER CONTACTS

Male



Female



Type	Max. Current Rating	Clip Colour	RoHS* Part Number ≥200 mating/ unmating	RoHS* Part Number ≥500 mating/ unmating	Wire		Strip length mm $^{+0.5}_{+0}$	Ø A $^{+0.1}_{0}$	Ø B $^{+0.05}$
					Size	Section mm^2			
Male	10A	Black	8638PPS1005LF	8638PPS1006LF	16	1.3	7	1.7	2.6
Male	15A	White	8638PPS1505LF	8638PPS1506LF	14	1.9	7	2.1	3
Male	20A	Red	8638PPS2005LF	8638PPS2006LF	12	3.2	7	2.8	3.65
Male	40A	Blue	8638PPS4005LF	8638PPS4006LF	8	9	7	4.4	5
Female	10A	Black	8638PSS1005LF	8638PSS1006LF	16	1.3	7	1.7	2.6
Female	15A	White	8638PSS1505LF	8638PSS1506LF	14	1.9	7	2.1	3
Female	20A	Red	8638PSS2005LF	8638PSS2006LF	12	3.2	7	2.8	3.65
Female	40A	Blue	8638PSS4005LF	8638PSS4006LF	8	9	7	4.4	5

Clip material: Plastic withstanding 125°C

Termination plating: Matt tin

*RoHS compatible EU directive 2002/95/EC

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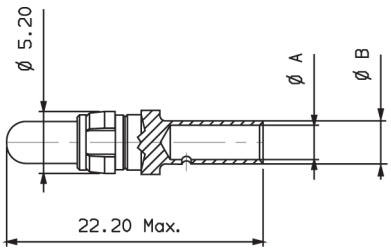
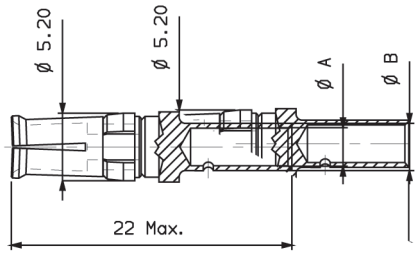
POWER SOLDER AND CRIMP CONTACTS

CRIMP CONTACTS

Male



Female



Type	Max. Current Rating	Clip Colour	RoHS* Part Number ≥200 mating/ unmating	RoHS* Part Number ≥500 mating/ unmating	Wire		Strip length mm $^{+0.5}_{+0}$	Ø A $^{+0.1}_{0}$	Ø B $^{+0.05}$
					Size	Section mm²			
Male	10A	Black	8638PPC1005LF	8638PPC1006LF	16 to 18	0.9 to 1.3	7	1.8	2.55
Male	20A	Red	8638PPC1505LF	8638PPC1506LF	12 to 14	2 to 3	7	2.8	3.7
Male	30A	White	8638PPC2005LF	8638PPC2006LF	9	6	7	3.75	4.65
Male	40A	Blue	8638PPC4005LF	8638PPC4006LF	8 to 10	5 to 8	7	4.8	5.5
Female	10A	Black	8638PSC1005LF	8638PSC1006LF	16 to 18	0.9 to 1.3	7	1.8	2.55
Female	20A	Red	8638PSC1505LF	8638PSC1506LF	12 to 14	2 to 3	7	2.8	3.7
Female	30A	White	8638PSC2005LF	8638PSC2006LF	9	6	7	3.75	4.65
Female	40A	Blue	8638PSC4005LF	8638PSC4006LF	8 to 10	5 to 8	7	4.8	5.4

Clip material: Plastic withstanding 125°C

Termination plating: Matt tin

*RoHS compatible EU directive 2002/95/EC

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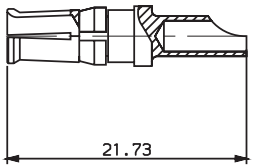
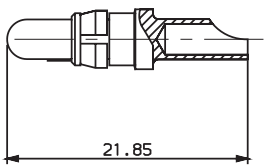
CONTACTS (OTHER VERSIONS)

POWER CONTACTS – METAL CLIP

Female



Male

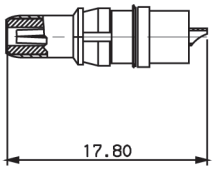


Wire Size	Max. Current	Part Numbers	
		Male	Female
AWG8	40A	86303098NLF	86303099NLF
AWG12	20A	86303056NLF	86303057NLF
AWG14	15A	86303060NLF	86303061NLF
AWG16	10A	86303064NLF	86303065NLF

Durability: 500 mating/unmating

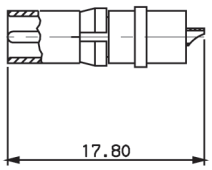
HIGH VOLTAGE CONTACTS

Male 86382000LF



Colors: Blue

Female 86382001LF



White

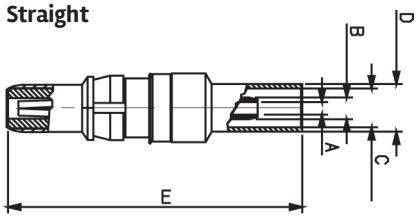
These removable contacts are suitable for the contact cavities of the DMW series and DW series.

The coxial contacts are in compliance with:

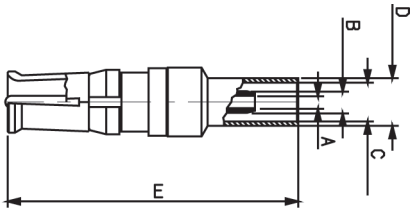
- NFC 93569
- KMX4 specification

COAXIAL CONTACTS

Straight

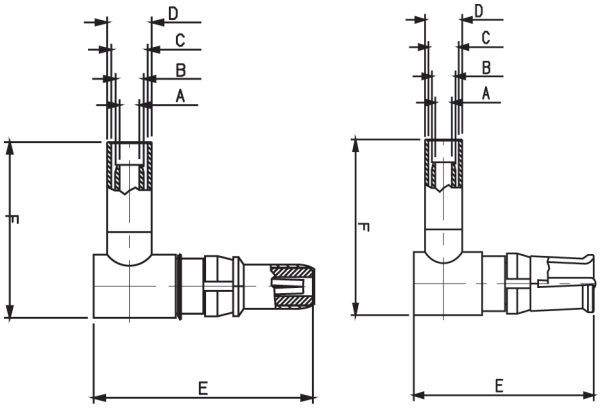


Male

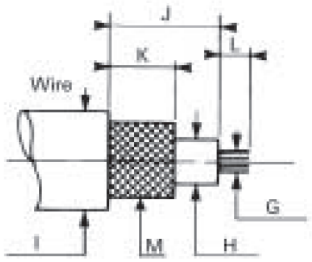


Female

Angled



Male Female



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TECHNICAL INFORMATION

ELECTRICAL PERFORMANCE

- Dielectric with standing voltage: 2800V RMS
- Break down voltage: 3200V RMS
- Insulation resistance: 10^6 MΩ
- Contact resistance: ≤ 5mΩ
- Max. current rating: 5A
- Material: TEFLON

ENVIRONMENTAL

- Operating temperature range: –55° C to +125° C

MECHANICAL PERFORMANCE

- Mating force per set of contact: 3 N
- Mating endurance: 200

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CONTACTS (OTHER VERSIONS)

STANDARD COAXIAL CONTACTS

Contact Type		Part Numbers				Contacts Dimension					
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	A±0.10	B±0.15	C±0.2	D±0.15	E±0.4	F±0.4
Straight	male	DM537405000NCLF	KMX4M11D02	DM53740NCLF	KMXM12D02	1	1.75	2.32	3.20	23.60	
	male	DM537405008NCLF	–	–	–					21.80	
	female	DM537425000NCLF	KMX4F11D02	DM53742NCLF	KMX4F12D02					23.60	
	female	DM537425006NCLF	–	–	–					21.80	
Right angle	male	DM537415000NCLF	KMX4M11C02	DM53741NCLF	KMX4M12C02					18.64	15.30
	female	DM537435000NCLF	KMX4F11C02	DM537432NCLF	KMX4F12C02					18.64	15.30
Straight	male	DM537405001NCLF	KMX4M11D01	DM537401NCLF	KMX4M12D01	1.70	2.46	3	3.84	23.60	
	female	DM537425001NCLF	KMX4F11D01	DM537421NCLF	KMX4F12D01					23.60	
Right angle	male	DM537415001NCLF	KMX4M11C01	DM537411NCLF	KMX4M12C01					18.64	15.30
	female	DM537435001NCLF	KMX4F11C01	DM537433NCLF	KMX4F12C01					18.64	12.50

SPECIFIC COAXIAL CONTACTS

Contact Type		Part Numbers				Contacts Dimension					
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	A±0.10	B±0.15	C±0.2	D±0.15	E±0.4	F±0.4
Straight	male	DM537405002NCLF	–	DM537403NCLF	–	2.75	4.40	5.45	5.95	26.30	
	female	DM537425002NCLF	–	DM537423NCLF	–					26.30	
Straight	male	DM537405005NCLF	–	DM537405NCLF	–	3.15	4.40	5.45	5.95	23.60	
	female	DM537425004NCLF	–	DM537425NCLF	–					23.60	
Right angle	female	DM537435004NCLF	–	DM537436NCLF	–					18.64	17.50

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D–SUBMINIATURE MIXED AND FULL POWER DW SERIES

STANDARD COAXIAL CONTACTS

Contact Type		Part Numbers				Cable		
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	MILC 17E	NFC 93550	Impe–dance
Straight	male	DM537405000NCLF	KMX4M11D02	DM53740NCLF	KMXM12D02	RG178BU	KX21A	50Ω ±2
	male	DM537405008NCLF	–	–	–			
	female	DM537425000NCLF	KMX4F11D02	DM53742NCLF	KMX4F12D02			
	female	DM537425006NCLF	–	–	–			
Right angle	male	DM537415000NCLF	KMX4M11C02	DM53741NCLF	KMX4M12C02			
	female	DM537435000NCLF	KMX4F11C02	DM537432NCLF	KMX4F12C02			
Straight	male	DM537405001NCLF	KMX4M11D01	DM537401NCLF	KMX4M12D01	RG316U	KX22A	50Ω ±2
	female	DM537425001NCLF	KMX4F11D01	DM537421NCLF	KMX4F12D01			
Right angle	male	DM537415001NCLF	KMX4M11C01	DM537411NCLF	KMX4M12C01			
	female	DM537435001NCLF	KMX4F11C01	DM537433NCLF	KMX4F12C01			

Contact Type		Part Numbers				Wire						
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	G	H	I	J	K	L	M (max.)
Straight	male	DM537405000NCLF	KMX4M11D02	DM53740NCLF	KMXM12D02	0.30	0.90	1.80	7.90	6.35	2	1.40
	male	DM537405008NCLF	–	–	–							
	female	DM537425000NCLF	KMX4F11D02	DM53742NCLF	KMX4F12D02							
	female	DM537425006NCLF	–	–	–							
Right angle	male	DM537415000NCLF	KMX4M11C02	DM53741NCLF	KMX4M12C02				9.50	5.95	1.60	
	female	DM537435000NCLF	KMX4F11C02	DM537432NCLF	KMX4F12C02							
Straight	male	DM537405001NCLF	KMX4M11D01	DM537401NCLF	KMX4M12D01	0.50	1.50	2.50	7.90	6.35	2.00	2.05
	female	DM537425001NCLF	KMX4F11D01	DM537421NCLF	KMX4F12D01							
Right angle	male	DM537415001NCLF	KMX4M11C01	DM537411NCLF	KMX4M12C01				9.50	5.95	1.60	
	female	DM537435001NCLF	KMX4F11C01	DM537433NCLF	KMX4F12C01							

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D–SUBMINIATURE MIXED AND FULL POWER DW SERIES

SPECIFIC COAXIAL CONTACTS

Contact Type		Part Numbers				Cable		
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	MILC 17E	NFC 93550	Impe-dance
Straight	male	DM537405002NCLF	–	DM537403NCLF	–	RG180BU		95Ω ±2
	female	DM537425002NCLF	–	DM537423NCLF	–			
Straight	male	DM537405005NCLF	–	DM537405NCLF	–	RG58CU	KX15	50Ω ±2
	female	DM537425004NCLF	–	DM537425NCLF	–			
Right angle	female	DM537435004NCLF	–	DM537436NCLF	–			

Contact Type		Part Numbers				Wire						
		Soldered Screen	NFC 93569 KMX4	Crimped Screen	NFC 93569 KMX4	G	H	I	J	K	L	M (max.)
Straight	male	DM537405002NCLF	–	DM537403NCLF	–	0.30	2.60	3.58	9.70	7.90	2	3.14
	female	DM537425002NCLF	–	DM537423NCLF	–							
Straight	male	DM537405005NCLF	–	DM537405NCLF	–	0.90	2.95	4.95	9.50	7.90	2	3.81
	female	DM537425004NCLF	–	DM537425NCLF	–							
Right angle	female	DM537435004NCLF	–	DM537436NCLF	–				10.70		2.40	

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µTCA – HIGH POWER I/O PCB CONNECTORS

OVERVIEW

This power module I/O connectors for 48V applications are designed in accordance with µTCA specifications. The robust D-Subminiature concept based on simplified and cost effective Delta D design combines power contacts able to handle up to 24A with signal contacts. PCB connectors are proposed in traditional solder-to-board and Pin-in-Paste versions for optimized applied cost. Specific to the design of FCI is the fact that the connector's compact footprint allows for more space on the PCB for other components.

FEATURES

- 48V / 24A (shell size A)
- FMLB (First Mate Last Brake) functionality for hot plugging
- Field reparable

ORDERING INFORMATION

10070158	002	12	X	LF	RoHS compatible, EU directive 2002/95/EC

µTCA 48V / 24A power board connector

Description	
Dual solder-to-board	001
Dual Pin-in-Paste	002
Single solder-to-board	003
Single Pin-in-Paste	004

Packaging	
Tape and Reel packing	12
Card box packing	19

Mounting Options	
M3 threaded insert	L
UNC 4-40 threaded insert	X

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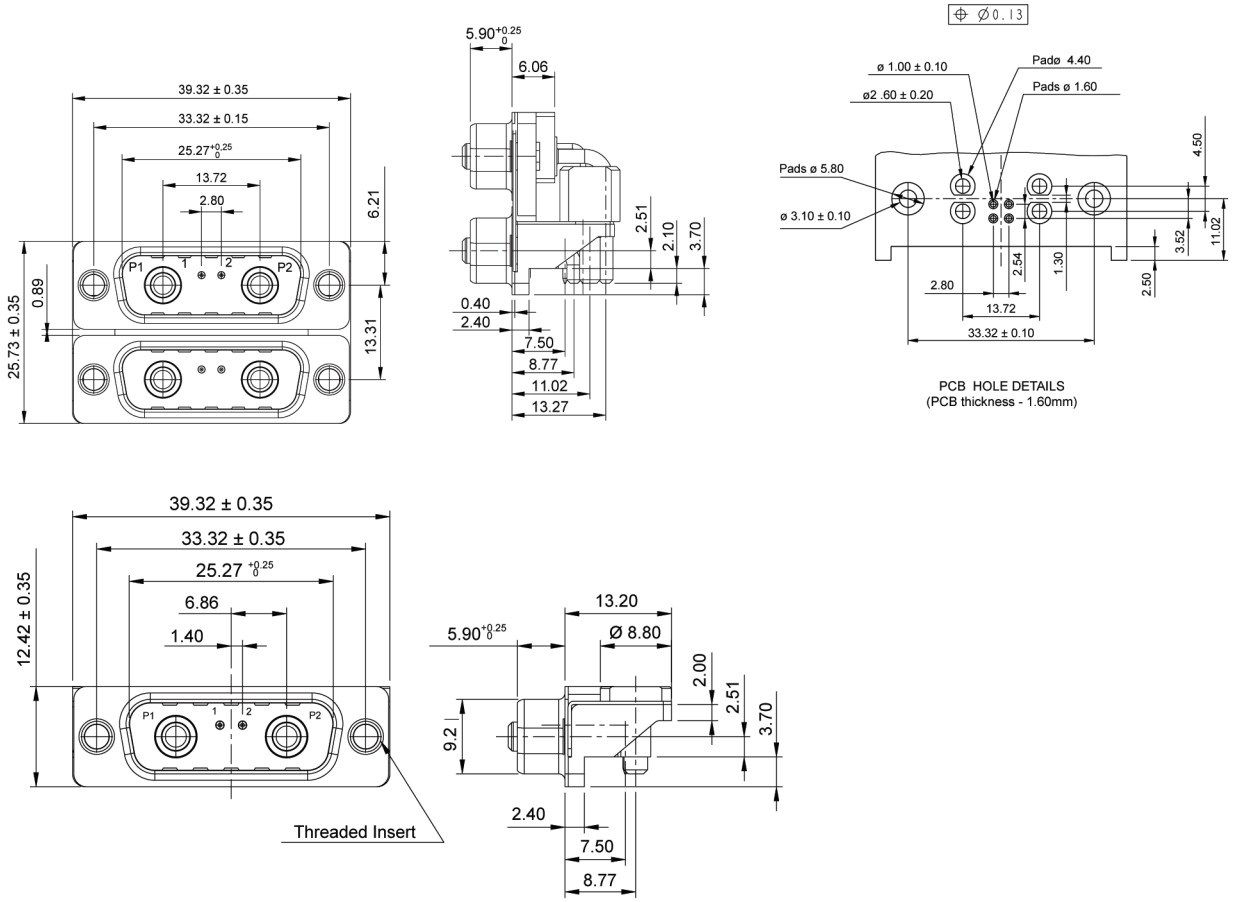
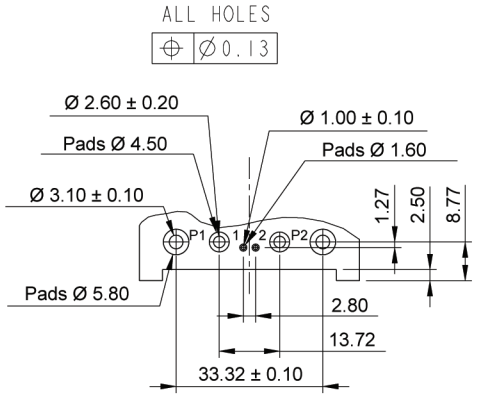
µTCA – HIGH POWER I/O PCB CONNECTORS

PRODUCT DRAWING





PCB drill & recommended pad details
(PCB thickness – 1.6mm)

Disclaimer
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µTCA – HIGH POWER I/O CABLE CONNECTORS

FEATURES

- Field reparable
- Touch proof
- Stackable hoods with high retention devices
- Cost saving jumper option for signal contacts

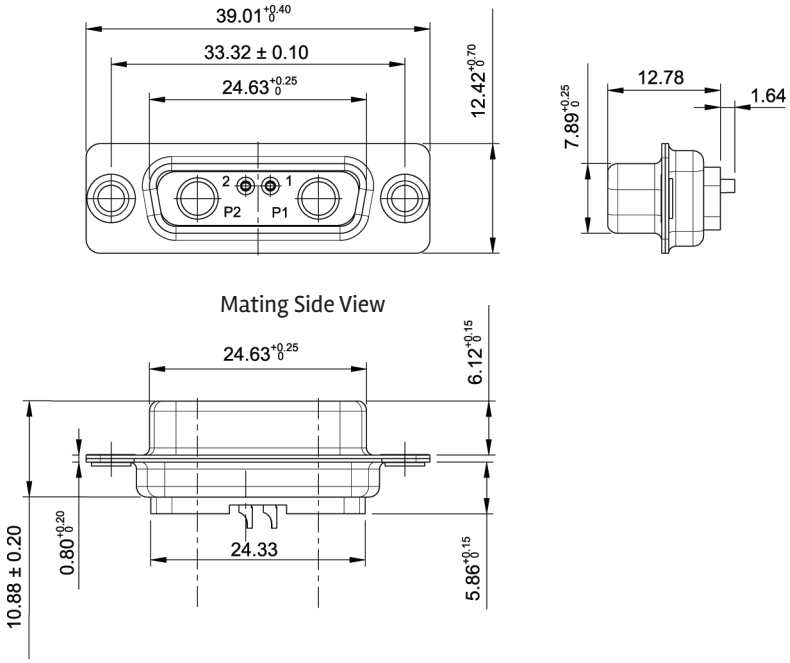
ORDERING INFORMATION

10070165	001	19ALF
µTCA 48V / 24A power board connector	Description: Without jumper = 001; With jumper option = 002	Packaging: Card box packing

POWER CONTACTS

Description	Part Number
30A crimp contacts	8638PSC3005LF
40A solder bucket contacts	8638PSS4005LF

PRODUCT DRAWING



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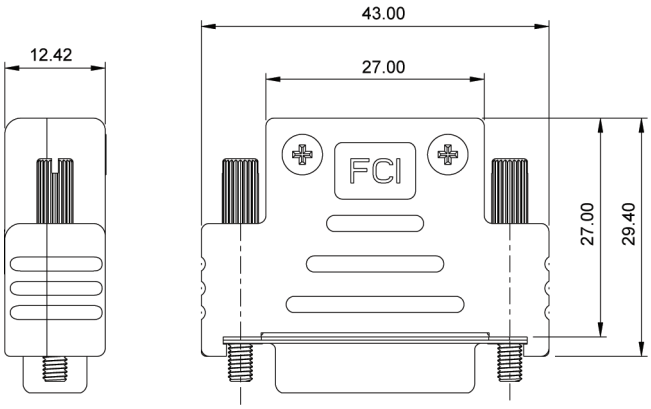
µTCA – HIGH POWER I/O CABLE CONNECTORS

HOOD (STACKABLE HOOD AND SLIM DESIGN)



Description	Part Number
HOOD (stackable hood and slim design)	10070163 – 001LF

INODSUBMFDW0813EA4

Disclaimer
Please note that the above information is subject to change without notice.