



**THE DATASHEET OF
630-2WK2650-1NA**



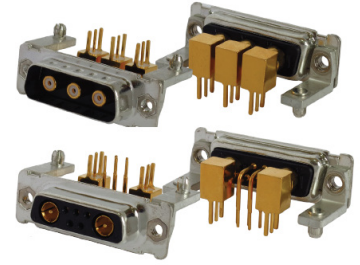
629C/630C SERIES



Power Combo D-Sub Connectors: Right Angle

Features:

- Signal, along with power or coaxial contacts within one connector
- Space saving on the PCB and I/O designs
- Available in various pin out configurations
- Pin and socket contact mating design with P.C. tail termination
- Metal shell provides EMI/RFI shielding, plug shell indents provide grounding and additional mating retention
- Mounting options for panel mount or connector mating include through hole, threaded hole and threaded standoffs
- D-shaped connector mating outline provides polarization



Specifications:

	Power/Coaxial Only	Combination
Insulator Material	Thermoplastic Polyester, UL 94V-0, Color: Black	
Contact Material	Copper Alloy	
Contact Plating	Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area	
Shell Material and Plating	Steel, Sn or Ni Plated	
Shell Material	Nickel Plated Steel	
Current Rating (Power Contacts)	10 amps, 20 amps, 30 amps, 40 amps	
Current Rating (Signal Contacts)		5 amps
Voltage Rating	125 V	
Contact Resistance (Power Contacts)	1 Milliohms maximum	
Contact Resistance (Signal Contacts)		10 Milliohms maximum
Insulation Resistance	5000 megaohms minimum	
Dielectric Withstanding Voltage	1000 V AC rms at Sea Level	
Operating Temperature	-55°C To +125°C	
Mating Cycle	500 For 30 Microinches Gold Plating, 50 For Gold Flash Plating	

Ordering Code:

629-2W2-220-1N2

SERIES: _____
 629: PLUG (PIN)
 630: RECEPTACLE (SOCKET)

LAYOUT: _____

	POWER/CO-AX ONLY		COMBINATION			
SIZE 9 CONTACT SHELL	2W2	2WK2	5W1			
SIZE 15 CONTACT SHELL	3W3	3WK3	7W2	11W1		
SIZE 25 CONTACT SHELL	5W5		9W4	13W3	17W2	21W1
SIZE 37 CONTACT SHELL	8W8		13W6	17W5	25W3	27W2 21W4
SIZE 50 CONTACT SHELL			24W7	36W4	43W2	47W1

8W8 2WK2
 TOTAL NO. OF POWER OR CO-AX CONTACT MALE FEMALE COMBINATION
 TOTAL NO. OF CONTACT

CONTACT PLATING THICKNESS: _____
 2 - GOLD FLASH PLATING
 6 - 30 MICROINCHES OF GOLD PLATING

TAIL TYPE: _____
 40 - PC TAIL
 50 - PC TAIL 20.33mm FOOTPRINT (POWER CONTACT ONLY)

MOUNTING OPTIONS:

- 1 - THROUGH HOLE
 - 2 - #4-40 UNC THREADED HOLE ONLY
 - 3 - #4-40 UNC THREADED HOLE, MOUNTING BRACKET, BOARDLOCK
 - 4 - #4-40 UNC THREADED HOLE, MOUNTING BRACKET
 - 5 - #4-40 UNC THREADED STANDOFF, MOUNTING BRACKET, BOARDLOCK
 - 6 - #4-40 UNC THREADED STANDOFF, MOUNTING BRACKET
- A - M3 THREADED HOLE ONLY
 B - M3 THREADED HOLE, MOUNTING BRACKET, BOARDLOCK
 C - M3 THREADED HOLE, MOUNTING BRACKET
 D - M3 THREADED STANDOFF, MOUNTING BRACKET, BOARDLOCK
 E - M3 THREADED STANDOFF, MOUNTING BRACKET

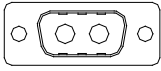
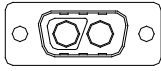
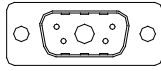
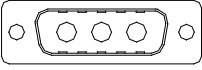
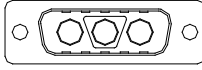
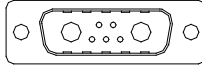
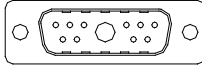
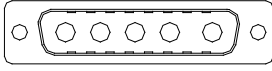
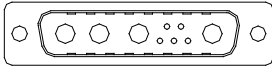
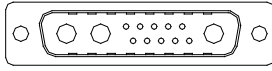
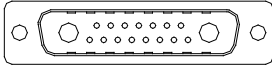
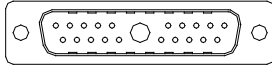
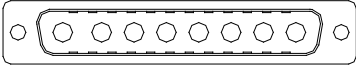
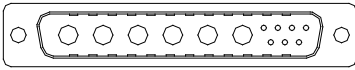
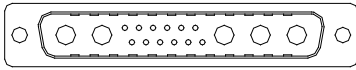
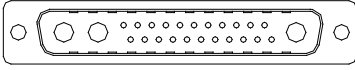
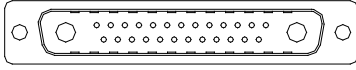
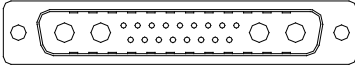
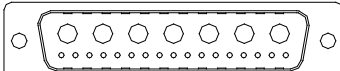
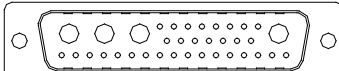
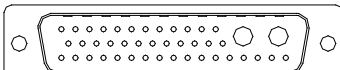
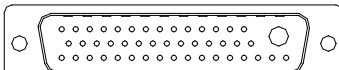
SHELL PLATING:

- N - NICKEL
 T - TIN

RATING:

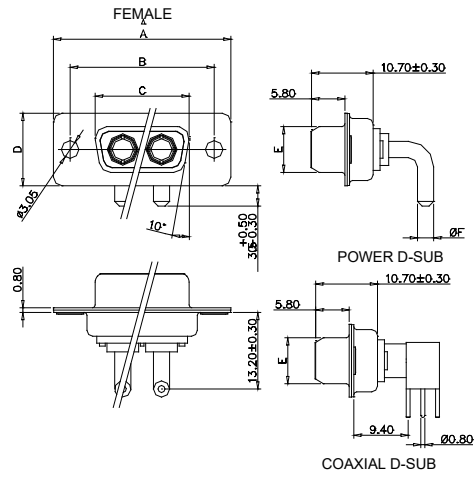
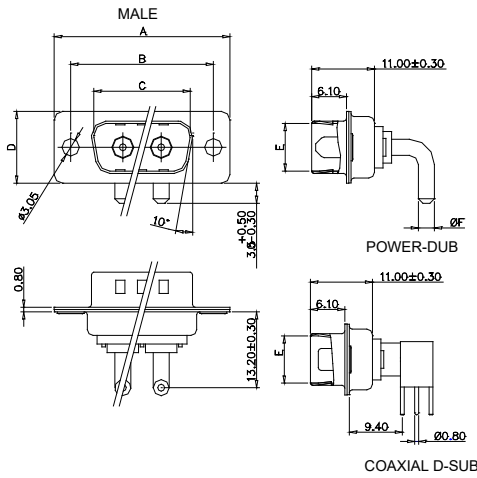
- | | |
|-----------------|-------------------|
| POWER CONTACT | COAXIAL CONTACT |
| CURRENT RATING: | IMPEDANCE RATING: |
| 1 - 10A | 5 - 50 OHMS |
| 2 - 20A | 7 - 75 OHMS |
| 3 - 30A | |
| 4 - 40A | |

Layout:

	POWER/COAXIAL D-SUB ONLY	COMBINATION
SIZE 9	 2W2  2WK2	 5W1
SIZE 15	 3W3  3WK3	 7W2  11W1
SIZE 25	 5W5	 9W4  13W3  17W2  21W1
SIZE 37	 8W8	 13W6  17W5  25W3  27W2  21W4
SIZE 50		 24W7  36W4  43W2  47W1

Power/Coaxial D-SUB:

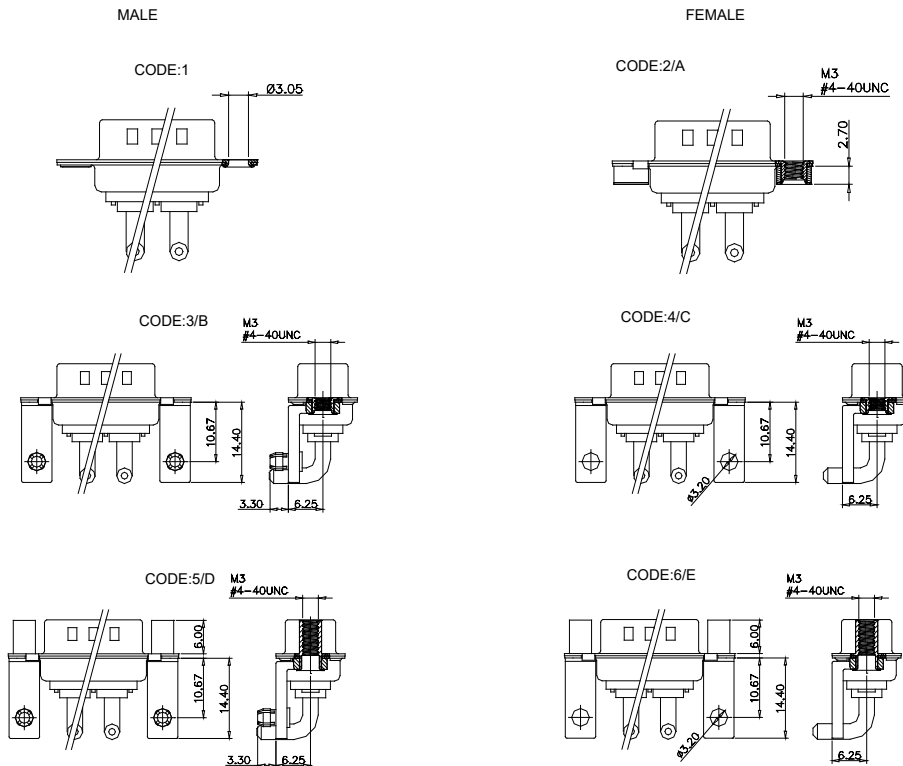
R/A PCB SOLDER TYPE



POWER D-SUB							
CONTACT SHELL SIZE	DIMA	DIMB	DIMC	DIMD	DIME(POWER/COAXIAL)	RATING	ØF
SIZE 9	30.80	25.00	16.90	12.50	7.90/8.30	10A	1.7
SIZE 15	39.20	33.30	25.25	12.50	7.90/8.30	20A	2.8
SIZE 25	53.05	47.05	38.95	12.50	7.90/8.30	30A	3.2
SIZE 37	69.40	63.50	55.40	12.50	7.90/8.30	40A	3.75
COAXIAL D-SUB							

POWER D-SUB							
CONTACT SHELL SIZE	DIMA	DIMB	DIMC(POWER/COAXIAL)	DIMD	DIME	RATING	ØF
SIZE 9	30.80	25.00	16.90/16.30	12.50	7.90	10A	1.7
SIZE 15	39.20	33.30	25.25/24.60	12.50	7.90	20A	2.8
SIZE 25	53.05	47.05	38.95/38.40	12.50	7.90	30A	3.2
SIZE 37	69.40	63.50	55.40/54.80	12.50	7.90	40A	3.75
COAXIAL D-SUB							

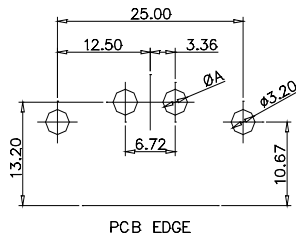
MOUNTING OPTION



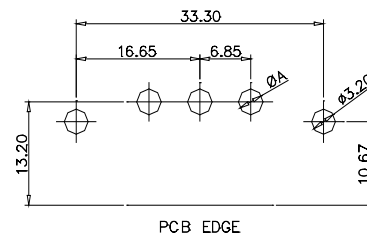
Power D-SUB:

PCB LAYOUT FOR POWER D-SUB MALE AND FEMALE CONNECTOR

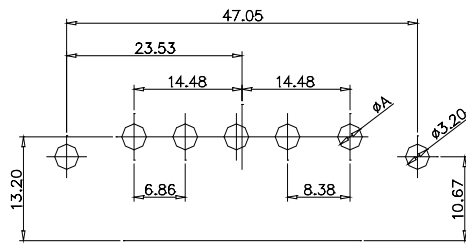
CODE:2W2/2WK2



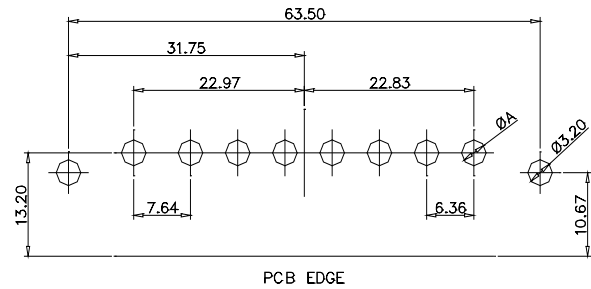
CODE:3W3/3WK3



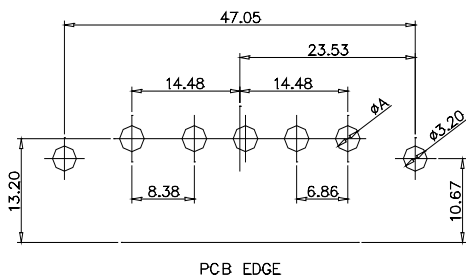
CODE:5W5 MALE



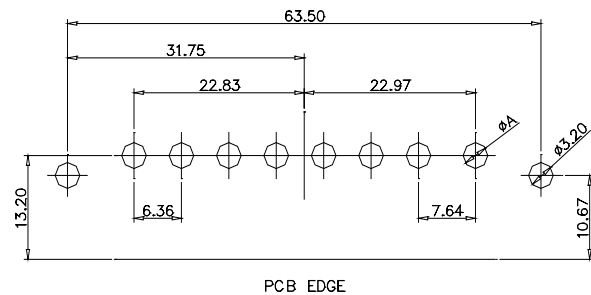
CODE:8W8 MALE



CODE:5W5 FEMALE



CODE:8W8 FEMALE

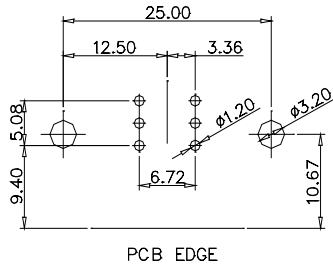


CURRENT RATING	10A	20A	30A	40A
ØA(mm)	2.2	3.3	3.7	4.2

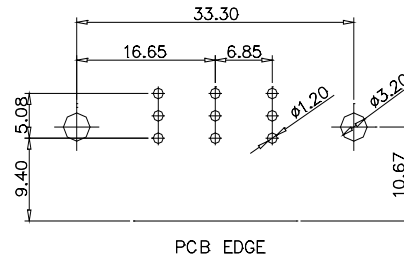
Coaxial D-SUB:

PCB LAYOUT FOR COAXIAL D-SUB MALE AND FEMALE CONNECTOR

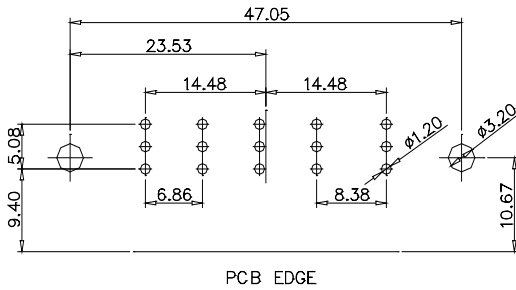
CODE:2W2/2WK2
MALE/FEMALE



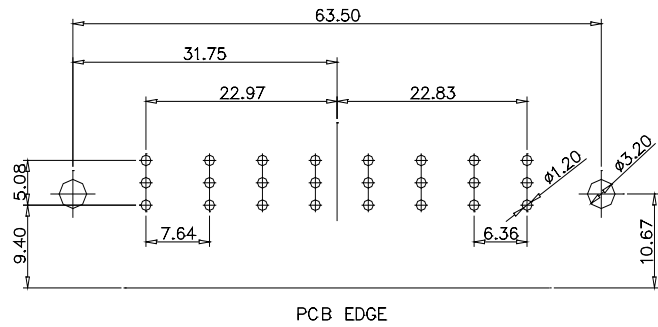
CODE:3W3/3WK3
MALE/FEMALE



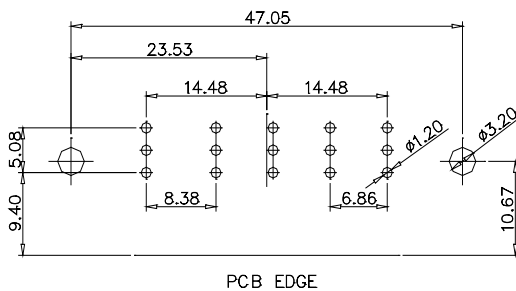
CODE:5W5
MALE



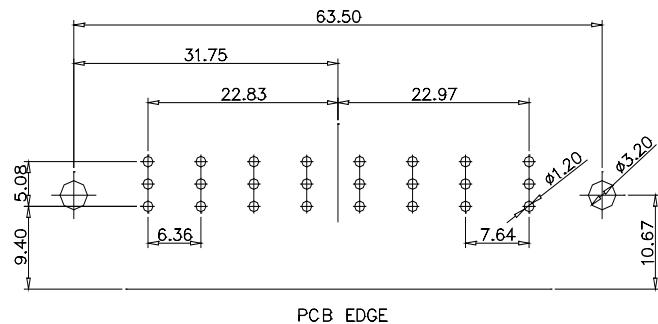
CODE:8W8
MALE



CODE:5W5
FEMALE

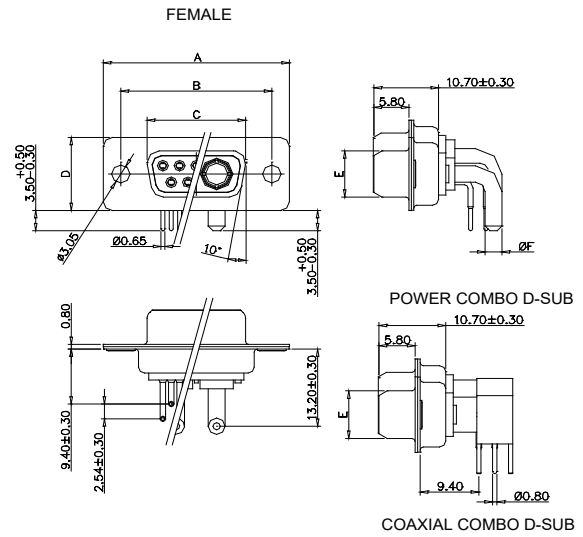
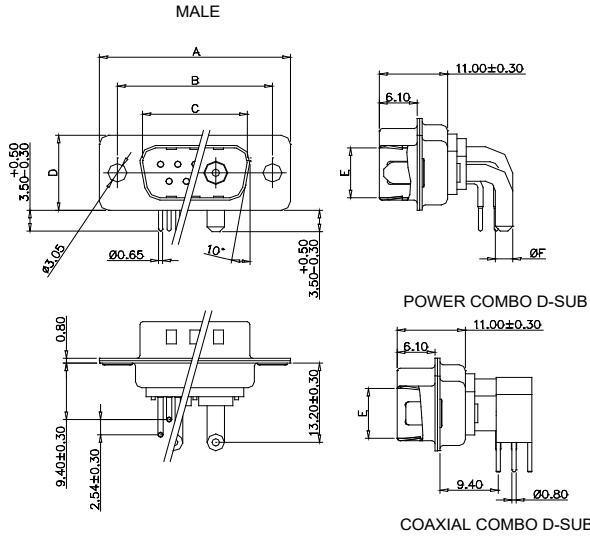


CODE:8W8
FEMALE



Power Combo & Coaxial Combo D-SUB:

RA PCB SOLDER TYPE

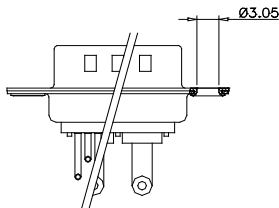


CONTACT SHELL SIZE	POWER D-SUB					
	DIMA	DIMB	DIMC	DIMD	DIME	ØF
SIZE 9	30.80	25.00	16.90	12.50	8.30	10A 1.7
SIZE 15	39.20	33.30	25.25	12.50	8.30	20A 2.8
SIZE 25	53.05	47.05	38.95	12.50	8.30	30A 3.2
SIZE 37	69.40	63.50	55.40	12.50	8.30	40A 3.75
SIZE 50	67.00	61.00	52.80	15.30	11.15	

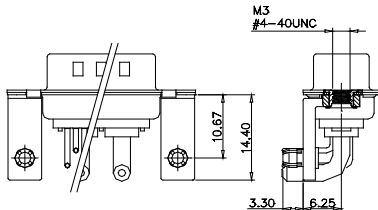
CONTACT SHELL SIZE	POWER D-SUB					
	DIMA	DIMB	DIMC	DIMD	DIME	RATING
SIZE 9	30.80	25.00	16.30	12.50	7.90	10A 1.7
SIZE 15	39.20	33.30	24.60	12.50	7.90	20A 2.8
SIZE 25	53.05	47.05	38.40	12.50	7.90	30A 3.2
SIZE 37	69.40	63.50	55.40	12.50	7.90	40A 3.75
SIZE 50	67.00	61.00	52.20	15.30	10.90	

R/A PCB SOLDER TYPE MOUNTING OPTION

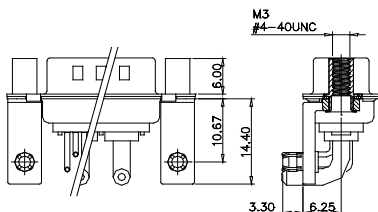
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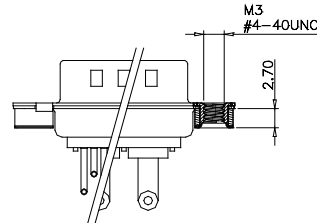
CODE:3/B



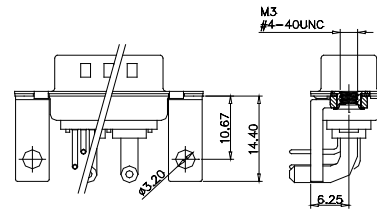
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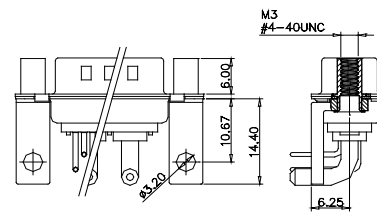
CODE:2/A



CODE:4/C



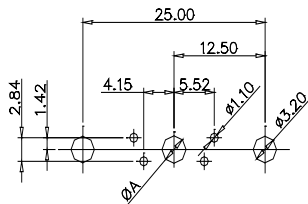
CODE:6/E



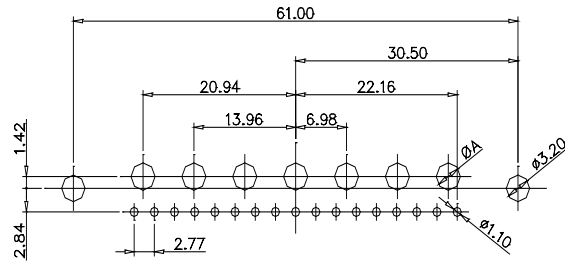
Power Combo D-SUB:

PCB LAYOUT FOR MALE AND FEMALE CONNECTOR

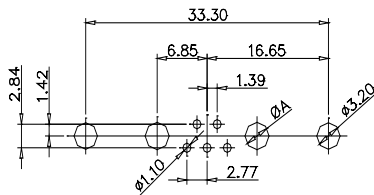
CODE:5W1
MALE/FEMALE



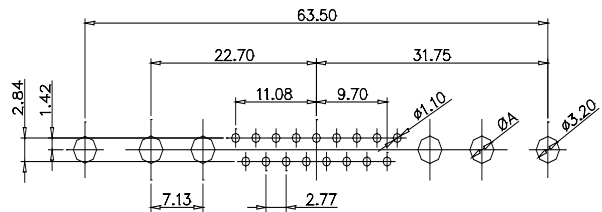
CODE:24W7
MALE/FEMALE



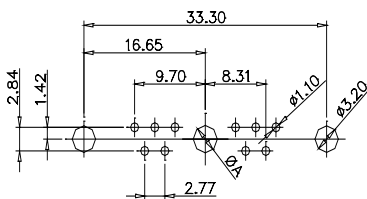
CODE:7W2
MALE/FEMALE



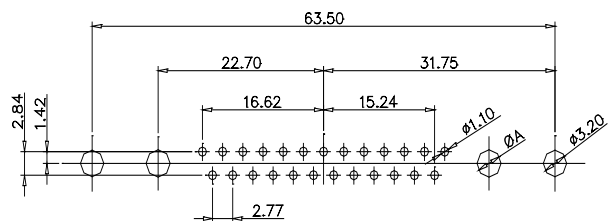
CODE:21W4
MALE/FEMALE



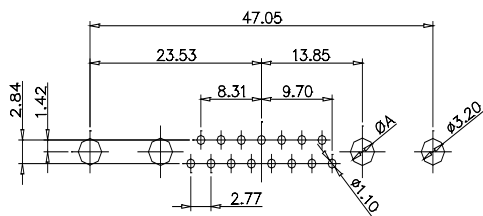
CODE:11W1
MALE/FEMALE



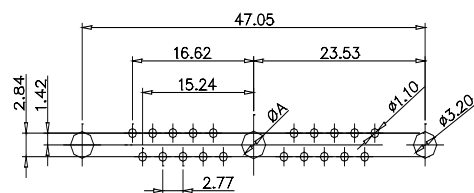
CODE:27W2
MALE/FEMALE



CODE:17W2
MALE/FEMALE



CODE:21W1
MALE/FEMALE

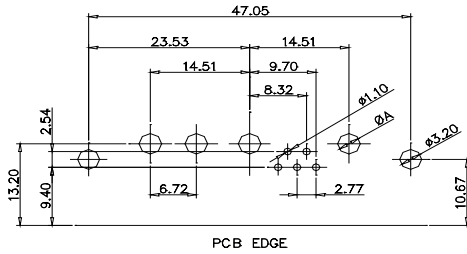


CURRENT RATING	10A	20A	30A	40A
ØA(mm)	2.2	3.3	3.7	4.2

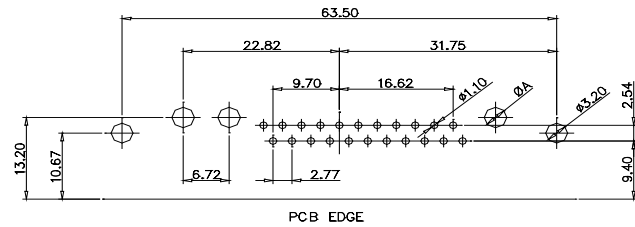
Power Combo D-SUB:

PCB LAYOUT FOR MALE CONNECTOR

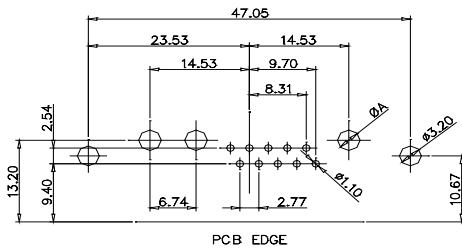
CODE:9W4
MALE



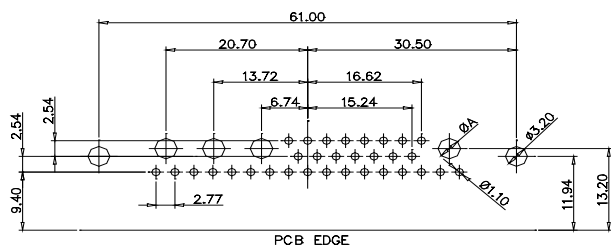
CODE:25W3
MALE



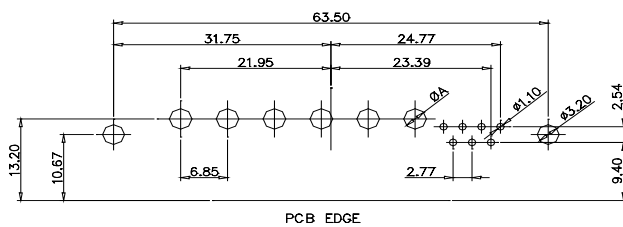
CODE:13W3
MALE



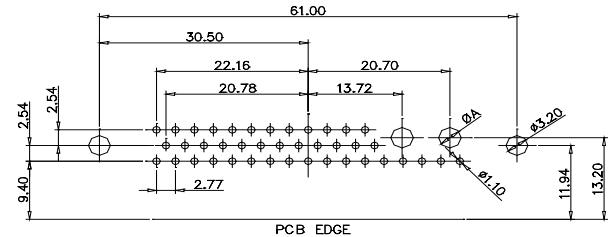
CODE:36W4
MALE



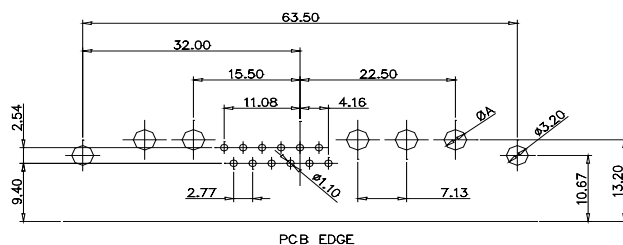
CODE:13W6
MALE



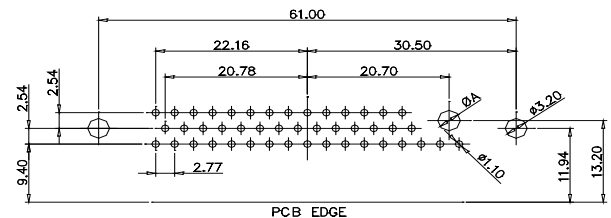
CODE:43W2
MALE



CODE:17W5
MALE



CODE:47W1
MALE

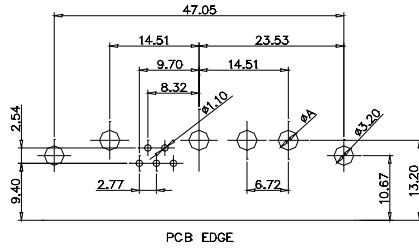


CURRENT RATING	10A	20A	30A	40A
ØA(mm)	2.2	3.3	3.7	4.2

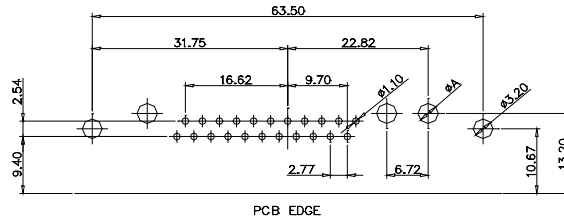
Power Combo D-SUB:

PCB LAYOUT FOR FEMALE CONNECTOR

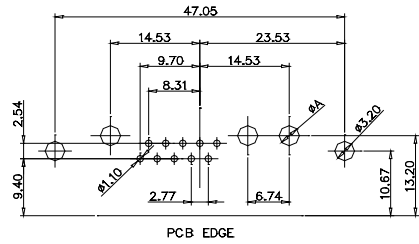
CODE:9W4
FEMALE



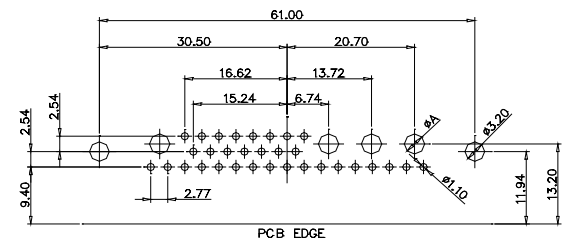
CODE:25W3
FEMALE



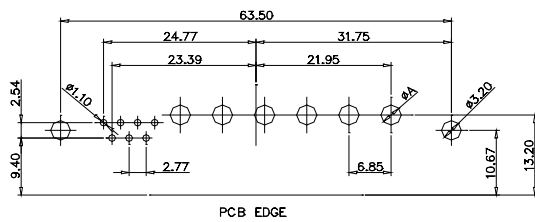
CODE:13W3
FEMALE



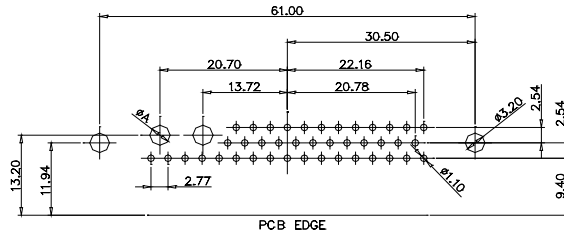
CODE:36W4
FEMALE



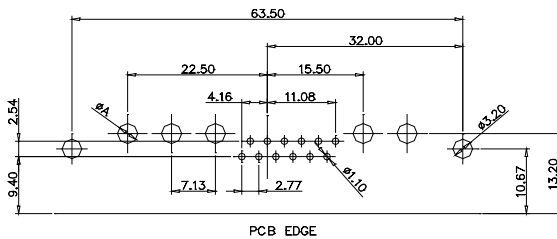
CODE:13W6
FEMALE



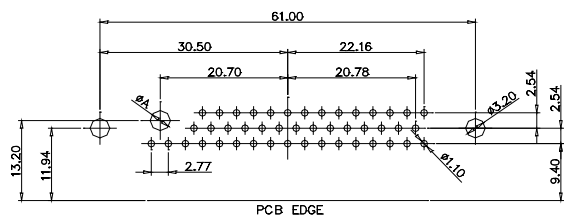
CODE:43W2
FEMALE



CODE:17W5
FEMALE



CODE:47W1
FEMALE

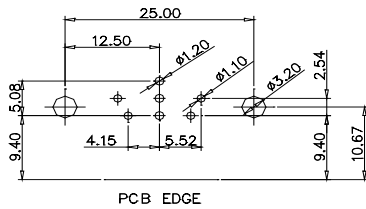


CURRENT RATING	10A	20A	30A	40A
ØA(mm)	2.2	3.3	3.7	4.2

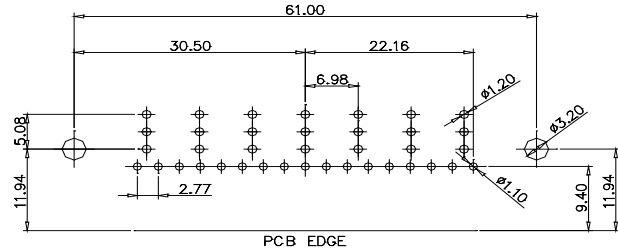
Coaxial Combo D-SUB:

PCB LAYOUT FOR MALE AND FEMALE CONNECTOR

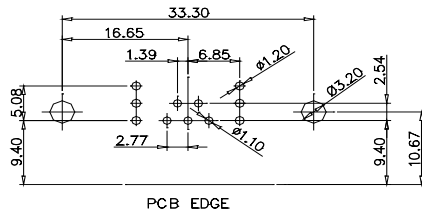
CODE:5W1
MALE/FEMALE



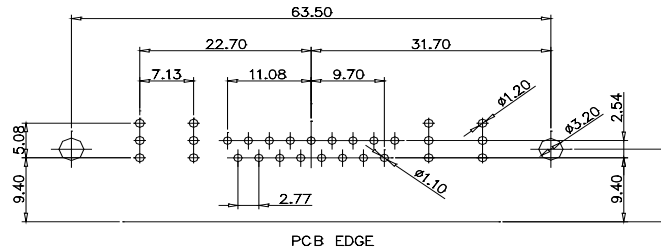
CODE:24W7
MALE/FEMALE



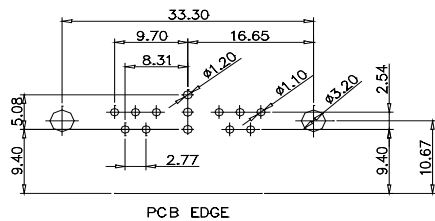
CODE:7W2
MALE/FEMALE



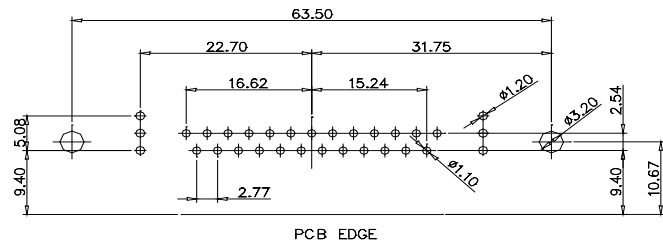
CODE:21W4
MALE/FEMALE



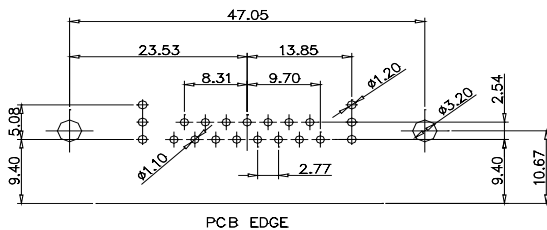
CODE:11W1
MALE/FEMALE



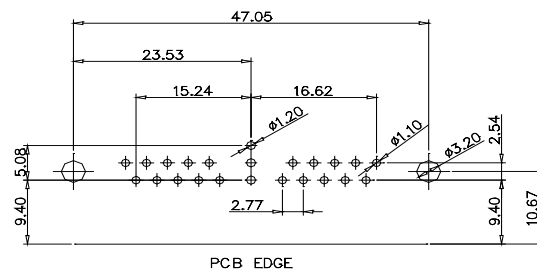
CODE:27W2
MALE/FEMALE



CODE:17W2
MALE/FEMALE



CODE:21W1
MALE/FEMALE

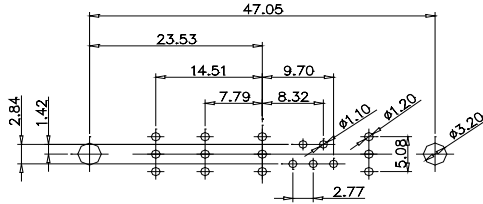


Power Combo D-Sub Connectors: Right Angle

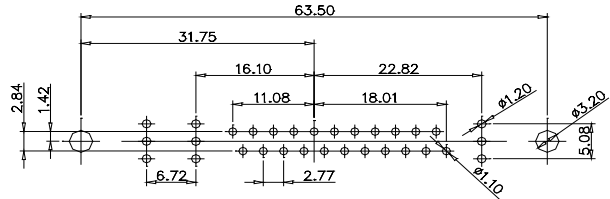
Coaxial Combo D-SUB:

PCB LAYOUT FOR MALE CONNECTOR

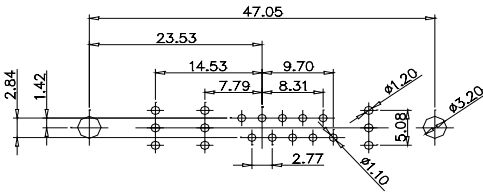
CODE:9W4
MALE



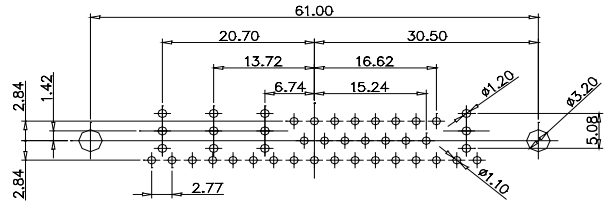
CODE:25W3
MALE



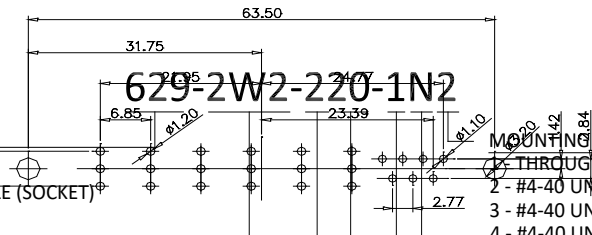
CODE:13W3
MALE



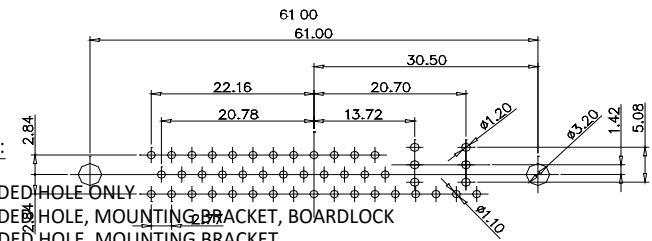
CODE:36W4
MALE



CODE:13W6
MALE



CODE:43W2
MALE



SERIES:
629: PLUG (PIN)
630: RECEPTACLE (SOCKET)

LAYOUT:

	POWER/CO-AX ONLY		COMBINATION			
	2W2	2WK2	5W1			
SIZE 9 CONTACT SHELL						
SIZE 15 CONTACT SHELL	3W3	3WK3	7W2	11W1		
SIZE 25 CONTACT SHELL	5W5		9W4	13W3	17W5	
SIZE 37 CONTACT SHELL	8W8		13W6	17W5	21W2	21W4
SIZE 50 CONTACT SHELL			24W7	36W4	43W2	47W1

CONTACT PLATING THICKNESS:
2 - GOLD FLASH PLATING
6 - 30 MICRONS OF GOLD PLATING
TAIL TYPE:
40 - PC TAIL
50 - PC TAIL 20.33mm FOOTPRINT (POWER CONTACT ONLY)

MOUNTING OPTIONS:

- 1 - THROUGH HOLE
- 2 - #4-40 UNC THREADED HOLE ONLY
- 3 - #4-40 UNC THREADED HOLE, MOUNTING BRACKET, BOARDLOCK
- 4 - #4-40 UNC THREADED HOLE, MOUNTING BRACKET
- 5 - #4-40 UNC THREADED STANDOFF, MOUNTING BRACKET, BOARDLOCK
- 6 - #4-40 UNC THREADED STANDOFF, MOUNTING BRACKET
- A - M3 THREADED HOLE ONLY
- B - M3 THREADED HOLE, MOUNTING BRACKET, BOARDLOCK
- C - M3 THREADED HOLE, MOUNTING BRACKET BOARDLOCK
- D - M3 THREADED STANDOFF, MOUNTING BRACKET BOARDLOCK
- E - M3 THREADED STANDOFF, MOUNTING BRACKET

SHELL PLATING:
N - NICKEL
T - TIN

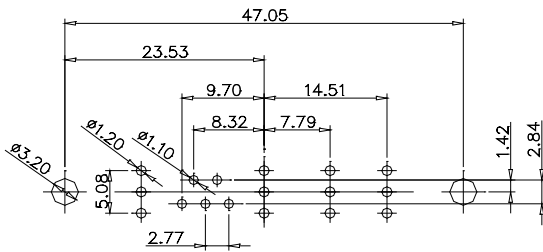
RATING:
POWER CONTACT
CURRENT RATING:
1 - 10A
2 - 20A
3 - 30A
4 - 40A

COAXIAL CONTACT
IMPEDANCE RATING:
5 - 50 OHMS
7 - 75 OHMS

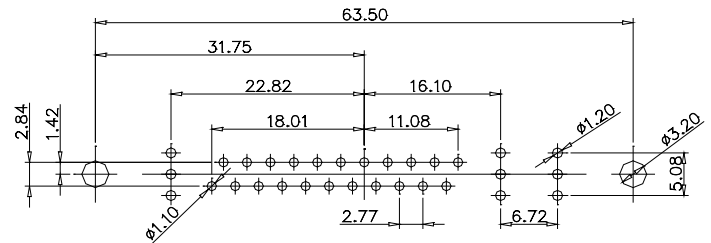
Coaxial Combo D-SUB:

PCB LAYOUT FOR FEMALE CONNECTOR

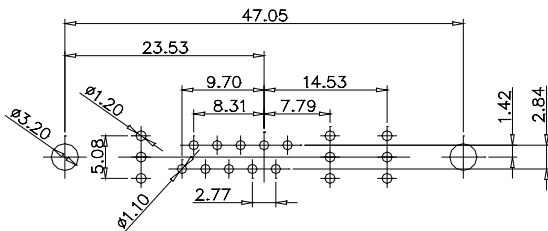
CODE:9W4
FEMALE



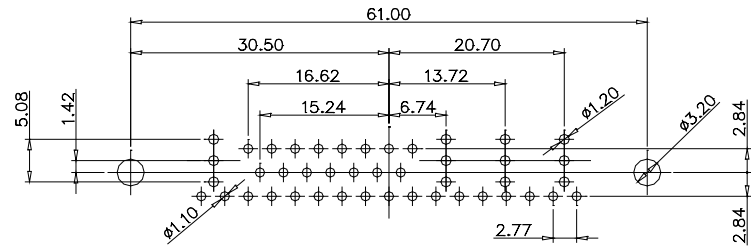
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FEMALE



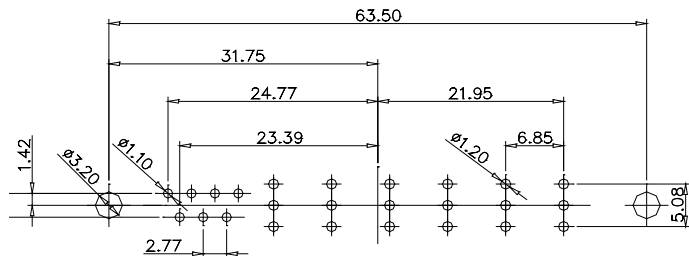
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FEMALE



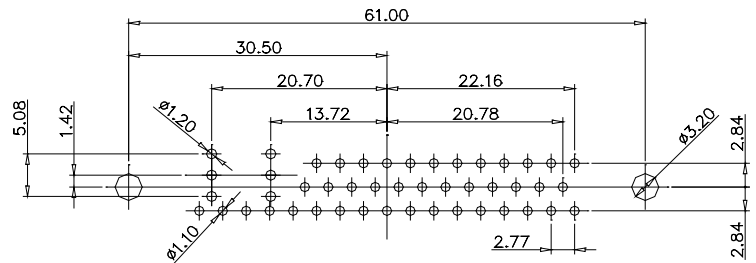
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FEMALE



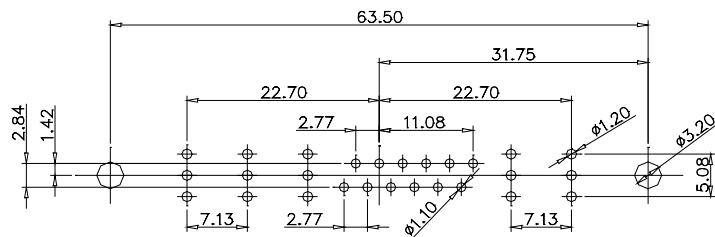
CODE:13W6
FEMALE



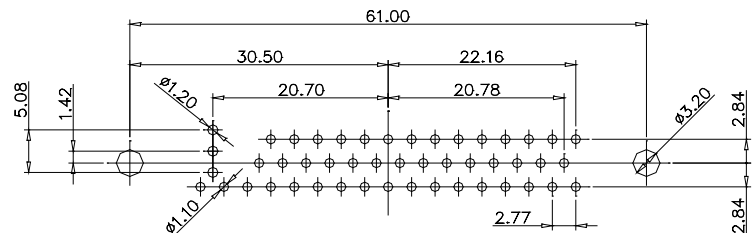
CODE:43W2
FEMALE



CODE:17W5
FEMALE



CODE:47W1
FEMALE



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 [EDAC Inc. Information](#)

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