

Welcome to the World of AirBorn Interconnect Solutions

JULY 2009

AirBorn has been manufacturing high reliability interconnect systems for more than 45 years with leading-edge, innovative technology that is more reliable and better-performing than practically all other alternatives.

Our advanced technologies, experienced design support, incomparable lead times and personalized customer service and support provide customers with complete solutions to a vast array of highly specialized design requirements in diverse markets and applications.

You will find in this catalog technical drawings and specification information that will help you solve your interconnection needs from the design stage through production specification.

The products in this catalog are organized by the AirBorn part number assigned to them.

Each connector part number identifies four elements:

- AirBorn Series
- Size (number of contacts)
- Contact Type
- Hardware Type

Each catalog page shows the choices available for each of these elements. By selecting one option from any category on the page, you can build a set of connectors to meet your requirements.

If you do not find a particular connector size or option, please contact AirBorn for further assistance. AirBorn can manufacture special configurations for your exact specifications.

When everything matters, go AirBorn.

www.AirBorn.com

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"W" SERIES - .100"
MIL-C-55302
See pages W-7 thru W-86

"WB" SERIES - .050"
MIL-C-55302
See pages WB-1 thru WB-13

"W" SERIES ACCESSORIES
See pages WA-1 thru WA-25



"W" SERIES - .100" MIL-C-55302



Mating Matrix for AirBorn "W" Series Connectors

SOCKETS

	SERIES	WT	WTA (F)	WTAX	WTB	WTBT	WTDX	WTK	WG	WGA	WGDX	WGK	WGR	WRD	WRDDX	WRF
Ī	WT	Х														
-	WTA (T)		Х		Х	Х	Х	Х								
	WTAV			Х	Х	Х	Х	Х								
	WTB*P		Х	Х	Х	Х	Х	Х								
	WTBV		Х	Х	Х	Х	Х	Х								
Р	WTDV		Х	Х	Х	Х	Х	Х								
	WTKV		Х	Х	Χ	Х	Х	Х								
۱	WG*P								Χ		Х	Χ				
` S∤	WGV								Х		Х	Χ				
5	WGA*P									Х						
	WGAV									Х						
	WGDV								Χ		Х	Χ				
	WGKV								Χ		Х	Χ				
	WGR												Х			
	WRD*P													Х	Х	
	WRDV													Х	Х	
	WRF															Х

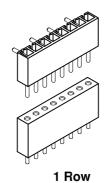
I/O CONNECTORS WT, WTA, WTAX, WTDX, WTK, WG, WGA, WGDX, WGK, WRD, WRDDX, WRF

PCB CONNECTORS WT, WTA, WTAX, WTB, WTBT, WG, WGA, WRD, WRF

(T) = TURNING HARDWARE(F) = FIXED HARDWARE

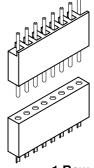


Right angle plug to straight receptacle



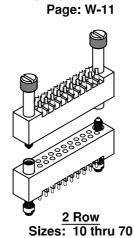
Sizes: 3 thru 22

Straight plug to straight receptacle



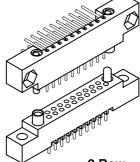
1 Row Sizes: 3 thru 22 Page: W-13





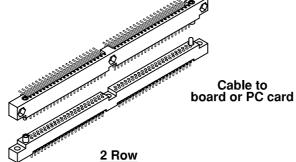
Page: W-15

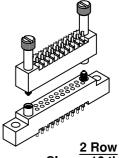
PC card to board or chassis



2 Row Sizes: 10 thru 70 Page: W-19

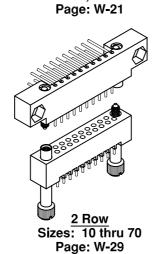
PC card to board or chassis





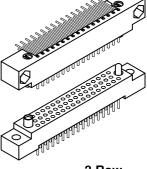
2 Row Sizes: 10 thru 70 Page: W-27

PC card to board or PC card



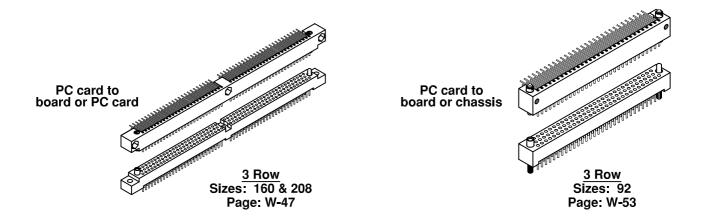
Sizes: 90, 100 & 120

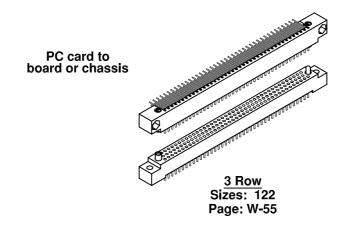
PC card to board or chassis

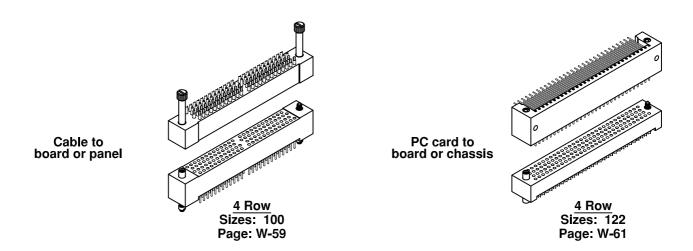


3 Row Sizes: 50 thru 104 Page: W-43



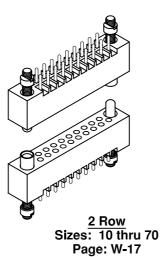


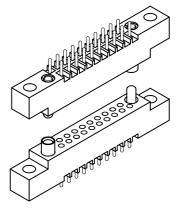




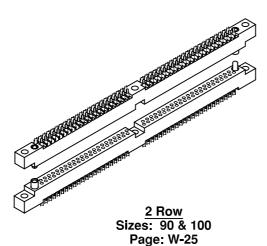


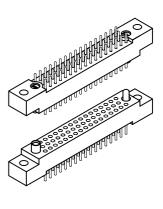
Sandwich Boards



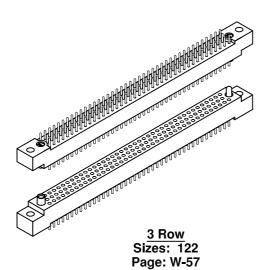


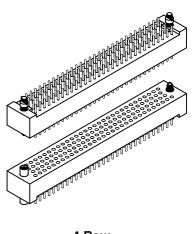
2 Row Sizes: 10 thru 70 Page: W-23





3 Row Sizes: 50 thru 104 Page: W-45

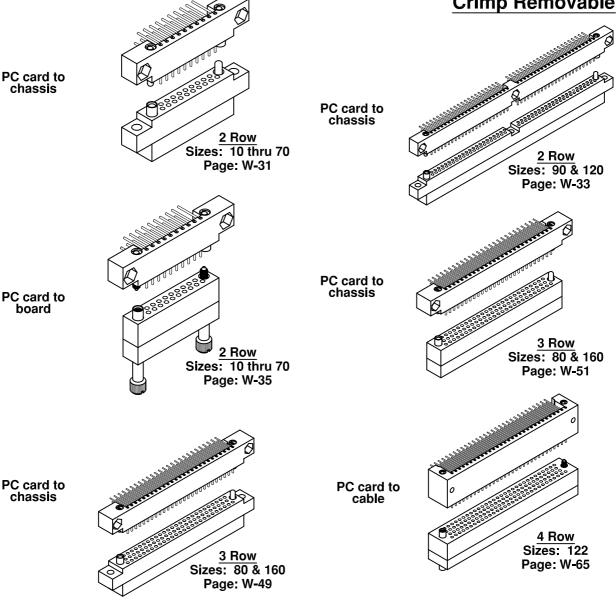


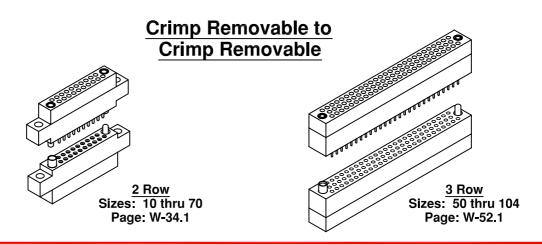


4 Row Sizes: 122 Page: W-63



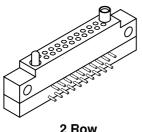
Crimp Removable



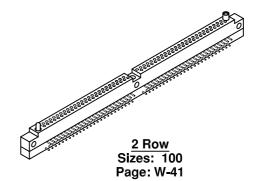




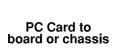
Extender Boards

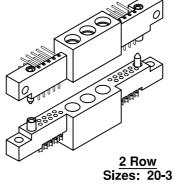


2 Row Sizes: 10 thru 70 Page: W-39



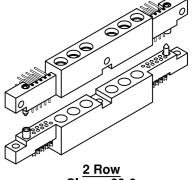
Coax Connectors





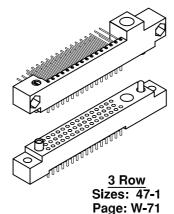
Page: W-67

PC Card to board or chassis

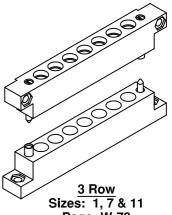


2 Row Sizes: 20-6 Page: W-69

PC Card to chassis or board



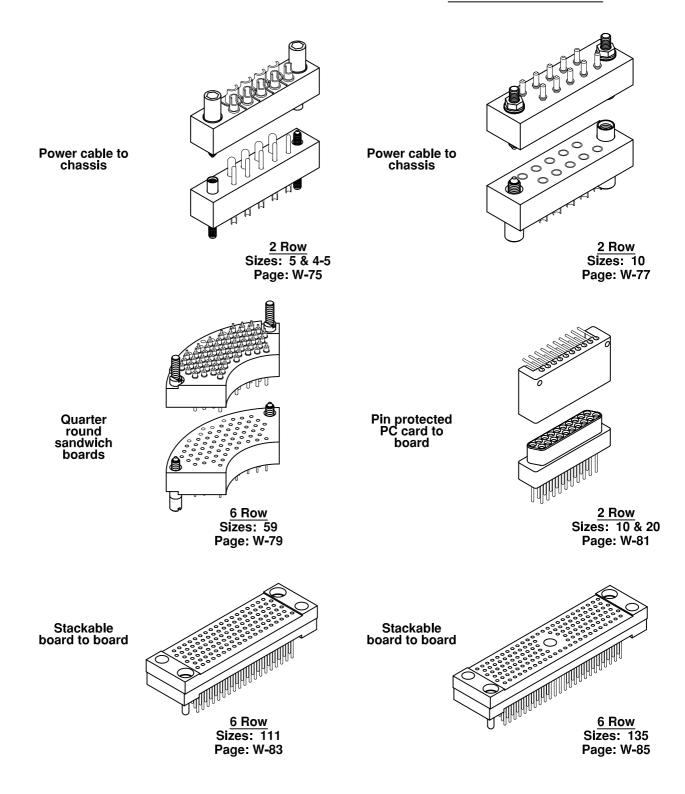
PC Card to chassis



Page: W-73



Misc Connectors





Contents

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"W" Series
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.100" Rectangular Plastic Board Level Connectors
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2-Row Connectors - Board to Board, Board to Cable, Sizes: 10-100

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W-17 Sandwich boards (straight to straight). Sizes: 10 thru 70 WTAV-WTAX W-19 WTB - WTB PC card to board or chassis. Sizes: 10 thru 70 W-21 PC card to board or chassis. Sizes: 90, 100 & 120 WTB - WTB

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PC card to board or chassis. Sizes: 92 W-53 WGR - WGR PC card to board or chassis. Sizes: 122 W-55 WGA - WGA

W-57 WGAV - WGA Sandwich boards. Sizes: 122

4-Row Connectors - Board to Board, Board to Cable

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W-63 WRDV - WRD Sandwich boards. Sizes: 122

W-65 WRD - WRDDXA PC card to cable (crimp removable) without mounting ears. Sizes: 122

Coax Hybrid Connectors - PC Card to Board, Board to Cable (SMB slide-on, 50 ohm contacts)

Signal-coax hybrid, PC card to board or chassis. Sizes: 20-3 W-67 WTB20-3 W-69 WTB20-6 Signal-coax hybrid, PC card to board or chassis. Sizes: 20-6 W-71 WG47-1 Signal-coax hybrid, PC card to board or chassis. Sizes: 47-1

W-73 Coax hybrid. Sizes 1, 7 & 11 **WRBC**

Miscellaneous Connectors

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Contents

"WB" Series

WB-13 Chart

.050" Rectangular Plastic Board Level Connectors

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Specifications Materials and Finishes *

Pin Contacts: Copper alloy per MIL-C-55302

Socket Contacts: Clipped contacts:

Contact: BeCu per MIL-C-55302

Terminal: Copper alloy per MIL-C-55302

Crimp removable contacts:

Contact & terminal: Copper alloy per MIL-C-55302

Contact Finish: Gold plate per ASTM B 488 or SAE AMS 2422. Localized finish per MIL-C-55302

Molded Insulators: Glass filled polyphenylene sulfide per MIL-M-24519, Type GST-40F

Jackscrews: Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35

Jacksockets: Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35

Jackscrew Knobs: Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35

Guide Pins, Guide Sockets: Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35

Guide Sockets, Polarized "D" type: BeCu per ASTM-B196, ASTM B 197/B 197M-, Nickel plated per SAE AMS-QQ-N-290

Face Seal Gasket: Silicone rubber per A-A-59588

Miscellaneous:

Connector Markings: Contact numbers are stamped on the side of the connector. Numbers are stamped

on the low-numbered side only on 2-row and 3-row right angle connectors

Torque: Polarizing Guides and Floating Mounts: 16 + 8/-0 inch ounces.

(Minimum of 7 inch ounce reverse torque per Mil-C-55302). Mounting & Hood Hardware: 24 inch ounces maximum.

Mating Jacksets: 32 inch ounces maximum

Wrap Post: 2 inch ounce minimum per Mil-STD-1130.

Helicoil Inserts: #2-56 -- 24 in/oz. maximum. #4-40 -- 32 in/oz. maximum.

Tolerances: Unless otherwise specified: Fractions = $\pm 1/64$ "

Decimals = $\pm .010$ " Angles = $\pm 5^{\circ}$

Note: AirBorn can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable



Performance Reference MIL-C-55302

Contact Rating: 5-amperes

Terminals (except wire $\operatorname{wrap}^{\circledR}$ and $\operatorname{crimp})$ tested in accordance with Solderability:

MIL-STD-202, Method 208

Wire Size: Stranded #22 AWG (adapter sleeves available for larger sizes or twisted pairs).

Operating Temperature: -65° to +125° C or -85° to +257° F

5 • • • • • • • • • • • • • • • • • • •	Too	t Method Per:
Category:	D	NE AS 13441
Test Voltage:	1,000 V, RMS, 60 Hz @ sea level 300 V, RMS, 60 Hz @ 70,000 feet	#3001
Insulation Resistance:	5,000 megohms minimum @ 500 VDC	#3003
Durability:	500 connector mating cycles	
Vibration:	Mated connectors, Test condition III	#2005
Salt Spray:	Mated connectors, Test condition B	#1001
Shock:	Mated connectors, Test condition G	#2004
Humidity:	Test Type II, except steps 7A and 7B not required	#1002
Temperature Cycling:	Mated connectors, Test condition A	#1003
Contact Resistance:	.025 volt maximum drop @ 5 amperes005 ohms (interface measurement)	#3004
Contact Engaging Force:	4.00 oz. maximum with .031 diameter test pin per SAE AS31971	#2014 & MIL-C-55302
Contact Engaging Force:	For lower force contacts with a nominal engagir per socket contact, substitute the letter "O" for t Example: Part number WRG208SOCSY	
Sizes 50 and larger:	Upon engagement, center area of mating faces due to slight flexing of molding. Vibration or shoclosure.	
Guides and Jacks:	If location of pin or socket contacts is reversed, guides or jacks is also reversed; except when u	
	When polarized positions are changed, apply L	octite [®] 83-21 or equivalent to

Note: See "Military Cross Reference" chart in the Accessories section.

threads.



Part Number Description

Each part number consists of at least four elements: series, size (number of contacts), type of contacts, and type of hardware. A fifth element is added whenever special modifications or options are available.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each part number is identified by a combination of letters and/or numbers of varying lengths. These elements are written together without spaces or punctuation.

Series:

The series designator identifies the connector body style. Some body moldings are modified to accommodate right angle pins, but carry the same series number. Follow choices on each catalog page for series selections.

Size:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page.

Contacts:

Each page also identifies contact options for a given connector. Please note that starting with the largest connectors, we are routinely substituting low-force sockets.

Hardware:

Hardware options are shown on each catalog page.

Notes:

If options or modifications are available for a given connector, it will be stated on the catalog page, or you will be referred to a different page for specific instructions. Remember when adding a suffix to the part number, add it exactly as instructed.

Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact the factory for further assistance.

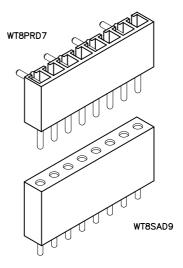


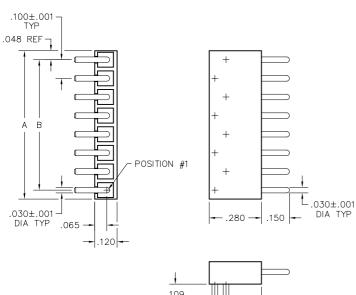
Right Angle Plug to Straight Receptacle

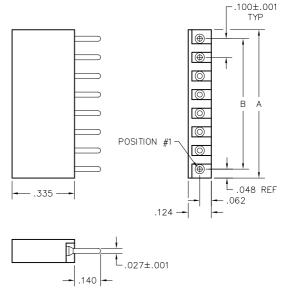
.100"

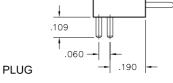
WT - WT

3 thru 22 Contacts

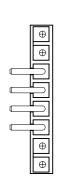


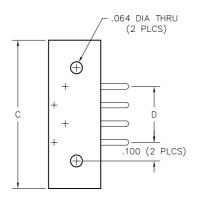


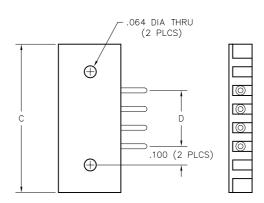




RECEPTACLE







MOUNTING HOLES (OPTION: CD)



PLUG: WT PRD7 RECEPTACLE: WT SAD9 8 XX

Χ XXXX

PLUG		RECEPTACLE			
		SERIES			
WT	Plug, right angle, no mounting ears	WT	Receptacle, straight, no mounting ears		
		SIZE			
	Number of contacts (3 thru 22)	1	Number of contacts (3 thru 22)		
	C	ONTACTS			
PRD4 PRD7 PRD8	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .063" x .030" dia Pin, right angle, dip solder, .109" x .030" dia Pin, right angle, dip solder, .125" x .030" dia	SAC SAD7 SAD9 SAD11 SAD15 SAF3 SAF6 SAG7 SAG9 SAG911 SAP SAP4	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup (.035" I.D.) Socket, straight, dip solder, .109" x .027" dia Socket, straight, dip solder, .140" x .027" dia Socket, straight, dip solder, .172" x .027" dia Socket, straight, dip solder, .234" x .027" dia Socket, straight, flex circuit, .050" Socket, straight, flex circuit, .093" Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, pin termination, .150" (connector saver) Socket, right angle, dip solder, .062" x .025" dia		

DECEDTACI E

OPTIONS

SAR7

SAR9

- Option Codes: Add to the end of the part number. Example: WT10PC443-1. Call factory for additional codes.
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. -443
- Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section. -444
- -B82 Termination face sealed against conformal coating
- CD
- Cross drilled connector for hold down screws. See page W-11. Example: WT8PRD7CD or WT8SACCD. Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. -D01
- -P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

Note: The thin outboard barriers are often removed at the factory due to their fragile nature.

DIMENSIONS

DILIC

DIVILITATIONS								
SIZE	Α	В						
3	.296	.200						
4	.396	.300						
5	.496	.400						
6	.596	.500						
7	.696	.600						
8	.796	.700						
9	.896	.800						
10	.996	.900						
11	1.096	1.000						
12	1.196	1.100						
13	1.296	1.200						
14	1.396	1.300						
15	1.496	1.400						
16	1.596	1.500						
17	1.696	1.600						
18	1.796	1.700						
19	1.896	1.800						
20	1.996	1.900						
21	2.096	2.000						
22	2.196	2.100						

DIMENSIONS (CD)					
SIZE	# OF CONTACTS	C	D		
5	1	.496			
6	2	.596	.100		
7	3	.696	.200		
8	4	.796	.300		
9	5	.896	.400		
10	6	.996	.500		
11	7	1.096	.600		
12	8	1.196	.700		
13	9	1.296	.800		
14	10	1.396	.900		
15	11	1.496	1.000		
16	12	1.596	1.100		
17	13	1.696	1.200		
18	14	1.796	1.300		
19	15	1.896	1.400		
20	16	1.996	1.500		
21	17	2.096	1.600		
22	18	2.196	1.700		

Socket, right angle, dip solder, .109" x .025" dia

Socket, right angle, dip solder, 140" x .025" dia

SARC Socket, right angle, solder cup SAW40 Socket, straight, wire wrap[®], .625"



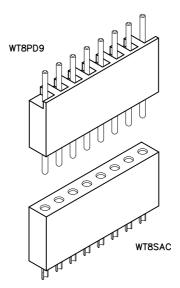
1 ⋅ ROW Straight Plug

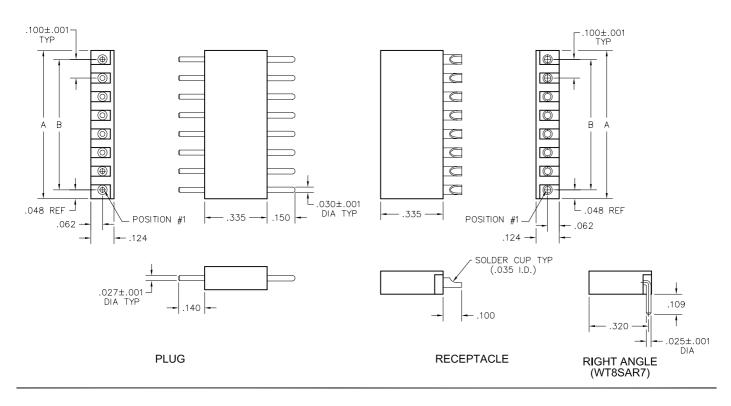
Straight Receptacle

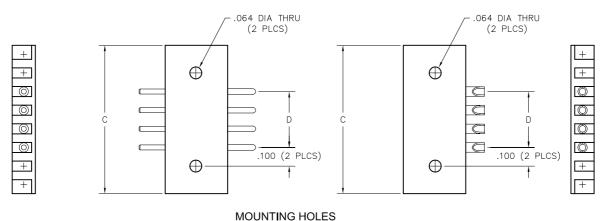
.100"

WT - WT

3 thru 22 Contacts







(OPTION: CD)



PLUG: WT 8 PD9 RECEPTACLE: WT 8 SAC XXX

XX Χ **PLUG RECEPTACLE SERIES** WT Plug, straight, no mounting ears | WT Receptacle, straight, no mounting ears SIZE

Number of contacts (3 thru 22)

CONTACTS TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: PC Pin, straight, solder cup (.035" I.D.) SAC Socket, straight, solder cup (.035" I.D.) PD7 Pin, straight, dip solder, 109" x .027" dia SAD7 Socket, straight, dip solder, 109" x 027" dia Pin, straight, dip solder, .140" x .027" dia PD9 SAD9 Socket, straight, dip solder, 140" x .027" dia Pin, straight, dip solder, 172" x .027" dia PD11 SAD11 Socket, straight, dip solder, 172" x 027" dia PF3 Pin, straight, flex circuit, .050" SAD15 Socket, straight, dip solder, 234" x .027" dia PF6 Pin, straight, flex circuit, .093" PW40 Pin, straight, wire wrap[®], .625" Socket, straight, flex circuit, 050" SAF3 Socket, straight, flex circuit, .093" SAF6 SAG7 Socket, straight, dip solder, 109" x .018" dia SAG9 Socket, straight, dip solder, 140" x 018" dia Socket, straight, dip solder, 172" x 018" dia SAG11 SAP Socket, straight, pin termination, .150" (connector saver) SAR4 Socket, right angle, dip solder, .062" x .025" dia SAR7 Socket, right angle, dip solder, 109" x .025" dia SAR9 Socket, right angle, dip solder, 140" x .025" dia SARC Socket, right angle, solder cup SAW40 Socket, straight, wire wrap[®], .625"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WT10PC443-1. Call factory for additional codes.
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. -443
- Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section. -444
- -B82 Termination face sealed against conformal coating

Number of contacts (3 thru 22)

- CD
- Cross drilled connector for hold down screws. See page W-13. Example: WT8PCCD or WT8SACCD. Pretinned contact terminations (except solder cups, wire wraps ® and flex contacts) with 63/37 or 60/40 solder. -D01
- -P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

Note: The thin outboard barriers are often removed at the factory due to their fragile nature.

DIMENSIONS

DIMENSIONS								
SIZE	Α	В						
3	.296	.200						
4	.396	.300						
5	.496	.400						
6	.596	.500						
7	.696	.600						
8	.796	.700						
9	.896	.800						
10	.996	.900						
11	1.096	1.000						
12	1.196	1.100						
13	1.296	1.200						
14	1.396	1.300						
15	1.496	1.400						
16	1.596	1.500						
17	1.696	1.600						
18	1.796	1.700						
19	1.896	1.800						
20	1.996	1.900						
21	2.096	2.000						
22	2.196	2.100						

DIMENSIONS (CD)						
SIZE	# OF CONTACTS	С	D			
5	1	.496				
6	2	.596	.100			
7	3	.696	.200			
8	4	.796	.300			
9	5	.896	.400			
10	6	.996	.500			
11	7	1.096	.600			
12	8	1.196	.700			
13	9	1.296	.800			
14	10	1.396	.900			
15	11	1.496	1.000			
16	12	1.596	1.100			
17	13	1.696	1.200			
18	14	1.796	1.300			
19	15	1.896	1.400			
20	16	1.996	1.500			
21	17	2.096	1.600			
22	18	2.196	1.700			

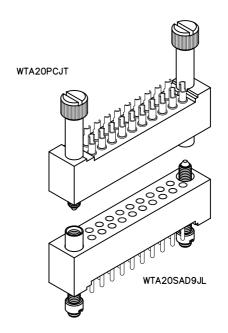


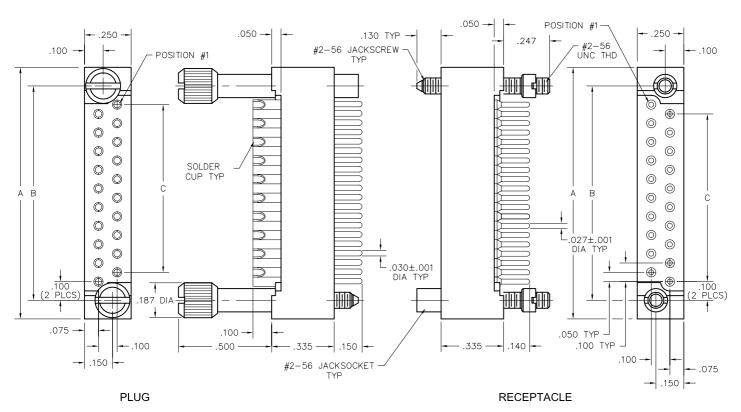
2 · ROW Cable to Board or Panel

.100"

WTA - WTA

10 thru 70 Contacts





	DIMENSIONS									
SIZE	Α	В	С	SIZE	Α	В	С			
10	.850	.650	.400	44	2.550	2.350	2.100			
14	1.050	.850	.600	50	2.850	2.650	2.400			
20	1.350	1.150	.900	54	3.050	2.850	2.600			
24	1.550	1.350	1.100	56	3.150	2.950	2.700			
26	1.650	1.450	1.200	60	3.350	3.150	2.900			
30	1.850	1.650	1.400	66	3.650	3.450	3.200			
36	2.150	1.950	1.700	70	3.850	3.650	3.400			
40	2.350	2.150	1.900				·			



PLUG: WTA 20 PC RECEPTACLE: WTA 20 SAD9 JL

XXX XX XXXX XX

PLUG RECEPTACLE

	SE	ERIES				
WTA	Plug, straight, no mounting ears	WTA	Receptacle, straight, no mounting ears			
SIZE						
XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)			

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD5	Pin, straight, dip solder, .078" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PD13	Pin, straight, dip solder, .203" x .027" dia	SAF6	Socket, straight, flex circuit, .093"
PD15	Pin, straight, dip solder, .234" x .027" dia	SAF9	Socket, straight, flex circuit, 140"
PD20	Pin, straight, dip solder, .312" x .027" dia	SAG7	Socket, straight, dip solder, .109" x .018" dia
PF3	Pin, straight, flex circuit, .050"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PF6	Pin, straight, flex circuit, .093"	SAG11	Socket, straight, dip solder, .172" x .018" dia
PF8	Pin, straight, flex circuit, .125"	SAP	Socket, straight, pin termination, .150" (connector saver)
PW34	Pin, straight, wire wrap [®] , .531"		Socket, straight, wire wrap [®] , .375"
PW40	Pin, straight, wire wrap [®] , .625"	SAW40	Socket, straight, wire wrap [®] , .625"

HARDWARE

- Jackset hardware determines image of connector. Must specify image with guide set hardware.
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTA10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.
- Fixed jackset, long (JL) includes jackscrew or jacksocket, #2-56 nut, #2 flat washer & #2 lockwasher.

JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, 500"		
.ITI	Turning jackset 700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTA10SAD9J-D01. Call factory for additional codes.
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section. -444
- -B82 Termination face sealed against conformal coating
- -D01
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- Solder cups fixed in an outward orientation (otherwise contacts will rotate)



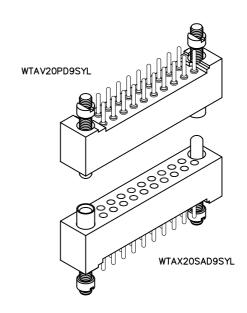
$2 \cdot \text{ROW}$

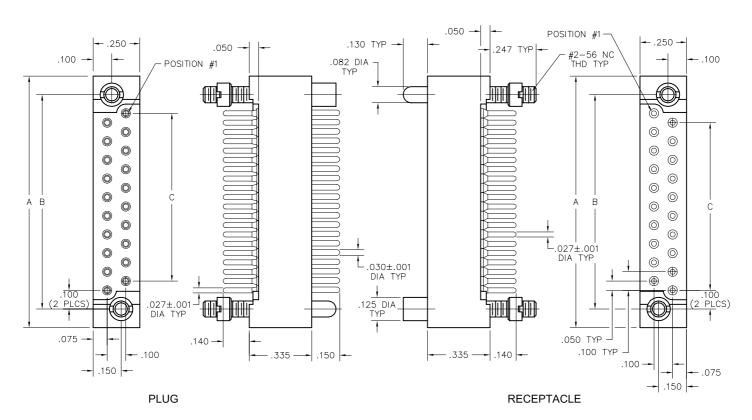
Sandwich Boards

.100"

WTAV - WTAX

10 thru 70 Contacts





	DIMENSIONS									
SIZE	Α	В	С	SIZE	Α	В	С			
10	.850	.650	.400	44	2.550	2.350	2.100			
14	1.050	.850	.600	50	2.850	2.650	2.400			
20	1.350	1.150	.900	54	3.050	2.850	2.600			
24	1.550	1.350	1.100	56	3.150	2.950	2.700			
26	1.650	1.450	1.200	60	3.350	3.150	2.900			
30	1.850	1.650	1.400	66	3.650	3.450	3.200			
36	2.150	1.950	1.700	70	3.850	3.650	3.400			
40	2.350	2.150	1.900							



PLUG: WTAV 20 PD9 SYL RECEPTACLE: WTAX 20 SAD9 SYL

XXXX XX XXXX XXX

PLUG RECEPTACLE

SERIES WTAV Plug, straight, no mounting ears WTAX Receptacle, straight, no mounting ears WTAX Receptacle, right angle, no mounting ears

SIZE

XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

XX

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

		•	
	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, 140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PF3	Pin, straight, flex circuit, .050"	SAF3	Socket, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"	SAF6	Socket, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"	SAF9	Socket, straight, flex circuit, .140"
PW34	Pin, straight, wire wrap [®] , .531"	SAG7	Socket, straight, dip solder, .109" x .018" dia
PW40	Pin, straight, wire wrap [®] , .625"	SAG9	Socket, straight, dip solder, .140" x .018" dia
	·	SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination, 150" (connector saver)
		SAW24	Socket, straight, wire wrap [®] , .375"
			Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, 109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

- Jackset hardware determines image of connector. Must specify image with guide set hardware.
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTAV10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.
- Fixed jackset, long (JL) includes jackscrew or jacksocket, #2-56 nut, #2 flat washer & #2 lockwasher

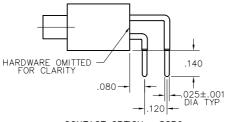
SY Guide set Guide set SY-# Guide set, polarized SY-# Guide set, polarized SYL Guide set, long SYL Guide set, long SYL-# Guide set, long, polarized SYL-# Guide set, long, polarized Fixed jackset JT Turning jackset, .500" JL Fixed jackset, long JTA Turning jackset, 200" Hex turning jackset, 200" JTB **JTC** Hex turning jackset, .500"

OPTIONS

JTL

Turning jackset, long, .700"

- Option Codes: Add to the end of the part number. Example: WTAV10PD9J-D01. Call factory for additional codes.
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. -433
- Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section. -444
- -B82 Termination face sealed against conformal coating
- -D01
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- Solder cups fixed in an outward orientation (otherwise contacts will rotate) -G69



CONTACT OPTION: SOR9

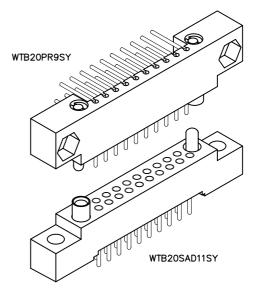


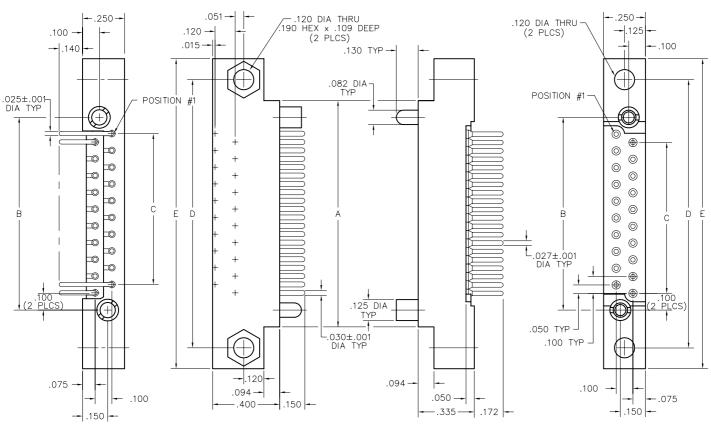
2 · ROW PC Card to Board or Chassis

.100"

WTB - WTB

10 thru 70 Contacts





PLUG RECEPTACLE

					DIMEN	ISIONS					
SIZE	Α	В	С	D	E	SIZE	Α	В	С	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTB 20 PR9 SY RECEPTACLE: WTB 20 SAD11 SY

XXXX XX XXXXX XX

PLUG RECEPTACLE

		SERIES	
WTB	Plug, right angle, with mounting ears	WTB WTB	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears
		0175	

SIZE

XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40, XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70) 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image. See page W-24 to switch the image.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PRC	Pin, right angle, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PR7	Pin, right angle, dip solder, .109" x .025" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PR9	Pin, right angle, dip solder, 140" x .025" dia	SAD9	Socket, straight, dip solder, 140" x .027" dia
PR11	Pin, right angle, dip solder, 172" x .025" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PR13	Pin, right angle, dip solder, .203" x .025" dia	SAF3	Socket, straight, flex circuit, .050"
PR15	Pin, right angle, dip solder, .234" x .025" dia	SAF6	Socket, straight, flex circuit, .093"
PR23	Pin, right angle, dip solder, .359" x .025" dia	SAF9	Socket, straight, flex circuit, 140"
PR30	Pin, right angle, dip solder, 470" x .025" dia	SAG7	Socket, straight, dip solder, .109" x .018" dia
PRW33	Pin, right angle, wire wrap [®] , .515"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PRW40	Pin, right angle, wire wrap [®] , .625"	SAG11	Socket, straight, dip solder, 172" x .018" dia
		SAW24	Socket, straight, wire wrap [®] , .375"
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets; order separately or add "Q" in part number. Example: WTB10PR9QJ See "Gaskets" in Accessories section for instructions.

SY Guide set SY-# Guide set, polarized SYL Guide set, long SYL-# Guide set, long, polarized Turning jackset, 435" JT JTA Turning jackset, 135" Hex turning jackset, .135" JTB JTC Hex turning jackset, 435" Turning jackset, long, .635"

SY Guide set SY-# Guide set, polarized SYL Guide set, long SYL-# Guide set, long, polarized Fixed jackset JL Fixed jackset, long

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTB10PR9SY342. Call factory for additional codes.
- Remove mounting ears. (.250" each end) -342
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- Contact position noted by dash number is left open (to mate with -443). For right angle connectors only. -515
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- Termination face sealed against conformal coating -B82
- -D01
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- -413 Straight pin contacts in right angle plug molding with solder cup terminations extending .100" from face.

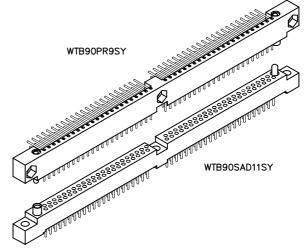


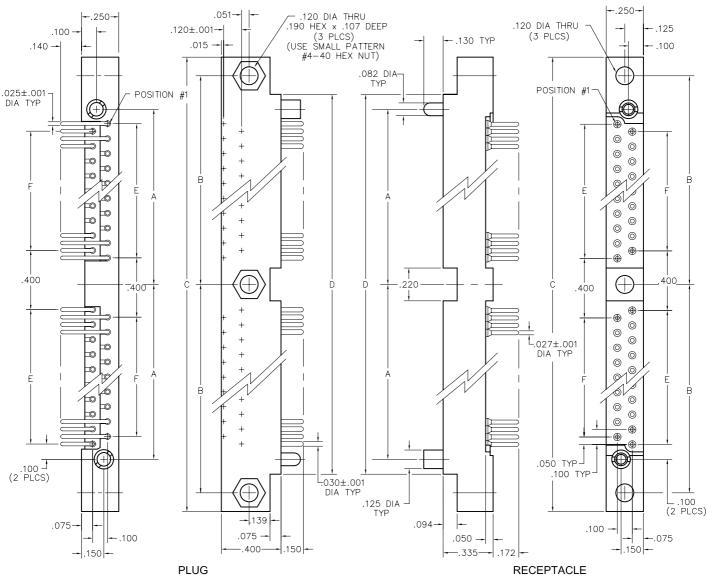
$2 \cdot \mathsf{ROW}$ **PC Card to Board or Chassis**

.100"

WTB - WTB

90, 100 & 120 Contacts





		DIMENSIONS					
SIZE	Α	В	С	D	Е	F	
90	2.475	2.700	5.650	5.150	2.200	2.100	
100	2.725	2.950	6.150	5.650	2.400	2.400	
120	3.225	3.450	7.150	6.650	2.900	2.900	



PLUG: WTB 90 PR9 SY RECEPTACLE: WTB 90 SAD11 SY

XXXX XX XXXXX XX

PLUG RECEPTACLE

SERIES WTB Plug, right angle, with mounting ears **WTB** Receptacle, straight, with mounting ears **WTB** Receptacle, right angle, with mounting ears SIZE XXNumber of contacts (90, 100, or 120) XX Number of contacts (90, 100, or 120)

CONTACTS

The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image. See page W-24 to switch the image.

TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
PRC Pin, right angle, solder cup (.035" I.D.)	SAC Socket, straight, solder cup (.035" I.D.)
PR7 Pin, right angle, dip solder, .109" x .025" dia	SAD7 Socket, straight, dip solder, 109" x .027" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia	SAD9 Socket, straight, dip solder, .140" x .027" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia	SAD11 Socket, straight, dip solder, 172" x .027" dia
PR15 Pin, right angle, dip solder, .234" x .025" dia	SAF3 Socket, straight, flex circuit, .050"
PRW33 Pin, right angle, wire wrap [®] , .515"	SAF6 Socket, straight, flex circuit, .093"
PRW40 Pin, right angle, wire wrap [®] , .625"	SAF9 Socket, straight, flex circuit, .140"
	SAG7 Socket, straight, dip solder, .109" x .018" dia
	SAG9 Socket, straight, dip solder, .140" x .018" dia
	SAG11 Socket, straight, dip solder, 172" x .018" dia
	SAW24 Socket, straight, wire wrap [®] , 375"
	SAW40 Socket, straight, wire wrap [®] , .625"
	SOR7 Socket, right angle, dip solder, 109" x .025" dia
	SOR9 Socket, right angle, dip solder, 140" x .025" dia
	SOR11 Socket, right angle, dip solder, .172" x .025" dia

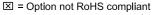
HARDWARE

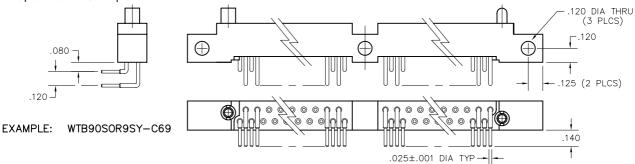
Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTB90PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, .135"	JL	Fixed jackset, long
JTB	Hex turning jackset, .135"		
JTC	Turning jackset, 435"		
JTL	Turning jackset, long, .635"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTB90PR9SY-D01. Call factory for additional codes.
- Remove mounting ears. (.250" each end) -342
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- Contact position noted by dash number is left open (to mate with -443). For right angle connectors only. -515
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -B82 Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -D01
- -P39
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- Straight pin contacts in right angle plug molding, with solder cup terminals extending .100" beyond molding.







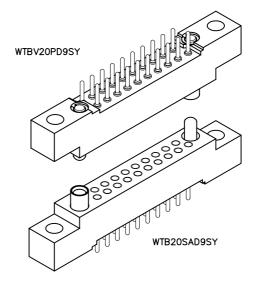
2 · ROW Sandwich

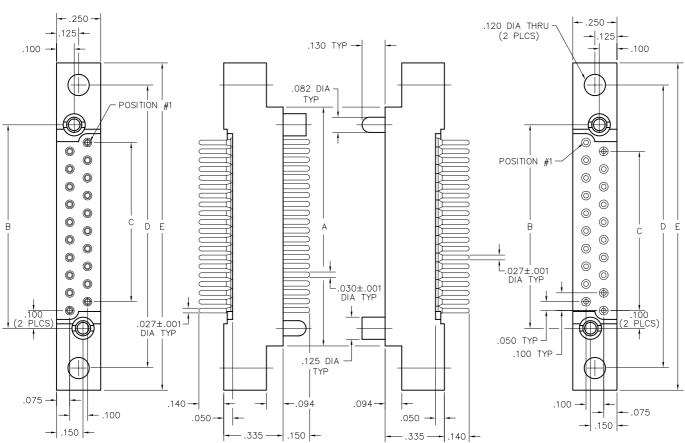
Boards

.100"

WTBV - WTB

10 thru 70 Contacts





PLUG RECEPTACLE

					DIMEN	ISIONS					
SIZE	Α	В	С	D	Е	SIZE	Α	В	С	D	Ε
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTBV 20 PD9 SY RECEPTACLE: WTB 20 SAD9 SY

XXXX XX XXXX XX

PLUG RECEPTACLE

	SERIES	
WTBV Plug, straight, with mounting ears	WTB WTB	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears
	SIZE	

XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40,

44, 50, 54, 56, 60, 66, or 70) 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

• Pin or socket contacts can be used in either plug or receptacle.

Number of contacts (10, 14, 20, 24, 26, 30, 36, 40,

XX

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

VVIIC	in socket contacts are used, standard nardware offenta	lion place	s the male haldware next to the #1 socket contact.
	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, 109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF3	Pin, straight, flex circuit, .050"	SAF6	Socket, straight, flex circuit, .093"
PF6	Pin, straight, flex circuit, .093"	SAF9	Socket, straight, flex circuit, 140"
PF8	Pin, straight, flex circuit, 125"	SAG7	Socket, straight, dip solder, .109" x .018" dia
PW34	Pin, straight, wire wrap [®] , .531"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PW40	Pin, straight, wire wrap [®] , .625"	SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination, 150" (connector saver)
		SAW24	
		SAW40	Socket, straight, wire wrap ^(R) , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

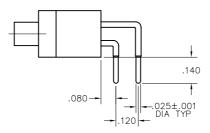
HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTBV10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, 200"	JL	Fixed jackset, long
JTB	Hex turning jackset, 200"		
JTC	Hex turning jackset, .500"		
.ITI	Turning jackset long 700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBV20PD9SY-D01. Call factory for additional codes.
- Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps $^{\mathbb{R}}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\mathbb{R}}$ and flex contacts) with SAC305 solder (lead free). -D01
- -P39
- Combine -B82 & -D01 options -D54
- Solder cups fixed in an outward orientation (otherwise contacts will rotate) -G69



CONTACT OPTION: SOR9



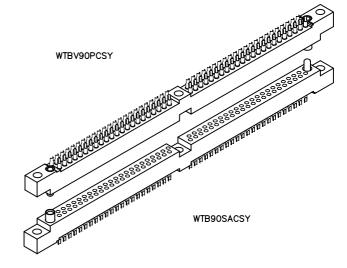
$2 \cdot \text{ROW}$

Sandwich **Boards**

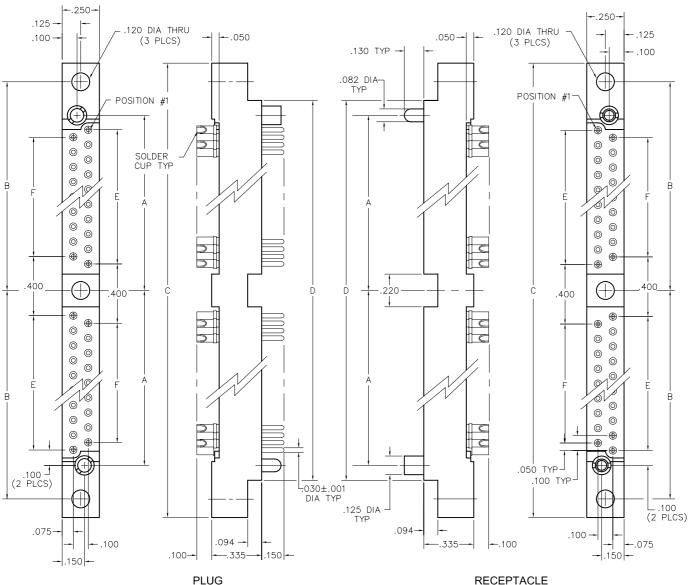
.100"

WTBV - WTB

90 & 100 Contacts



RECEPTACLE



DIMENSIONS SIZE В С D Ε F 2.475 2.700 5.650 5.150 2.200 2.100

6.150

2.950

5.650



PLUG: WTBV 90 PC RECEPTACLE: WTB 90 SAC

XXXX XX XXX XX

PLUG RECEPTACLE

12021 11022						
	SERIES					
WTBV Plug, straight, with mounting ears	WTB WTB	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears				
	SIZE					
XX Number of contacts (90 or 100)	xx	Number of contacts (90 or 100)				

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:	i .	TYPE CONTACTS/TERMINATIONS:
DC.		040	
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF3	Pin, straight, flex circuit, .050"	SAF6	Socket, straight, flex circuit, .093"
PF6	Pin, straight, flex circuit, .093"	SAF9	Socket, straight, flex circuit, 140"
PF8	Pin, straight, flex circuit, .125"	SAG7	Socket, straight, dip solder, .109" x .018" dia
PW34	Pin, straight, wire wrap [®] , .531"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PW40	Pin, straight, wire wrap [®] , .625"	SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination, .150" (connector saver)
		SAW24	
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

 Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTBV90PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"		
JTI.	Turning jackset long 700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBV100PD9SY-D01. Call factory for additional codes.
- Termination face sealed against conformal coating
- -342 Remove mounting ears (.250" each end)
- -D01
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)



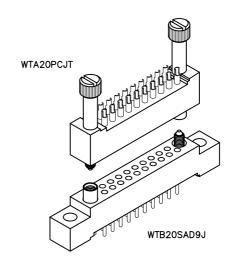
② ⋅ ROW Cable to

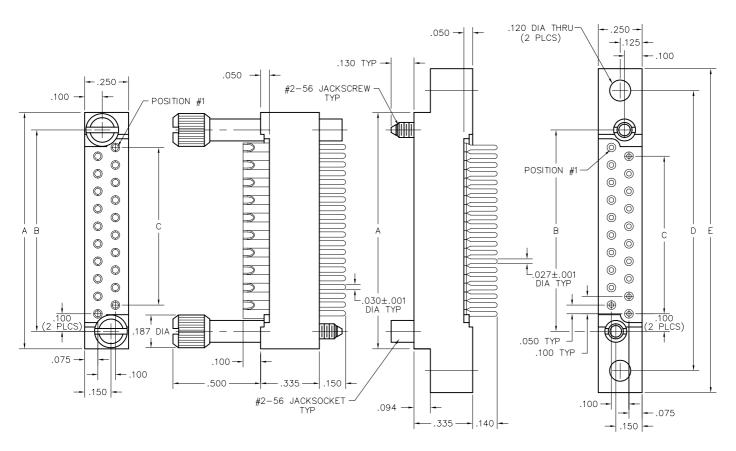
Board or PC Card

.100"

WTA - WTB

10 thru 70 Contacts





PLUG RECEPTACLE

	DIMENSIONS										
SIZE	Α	В	С	D	Ε	SIZE	Α	В	С	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTA 20 PC

RECEPTACLE: WTB 20 SAD9 J XXX XX XXXX XX

PLUG	RECEPTACLE							
SERIES								
WTA Plug, straight, without mounting ears		WTB WTB	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears					
SIZE								
XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 44, 50, 54, 56, 60, 66, or 7	· .	Number of contacts (10, 14, 20, 24, 26, 30, 36, 44, 50, 54, 56, 60, 66, or 7	,				

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- WTA connectors jackset hardware determines the image. Must specify image with guide set hardware. See page W-17.
- WTB connectors contacts determine the image. Right angle pin contacts are always plug image, and straight pin or sockets are receptacle image.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF3	Pin, straight, flex circuit, .050"	SAF6	Socket, straight, flex circuit, .093"
PF6	Pin, straight, flex circuit, .093"	SAF9	Socket, straight, flex circuit, 140"
PF8	Pin, straight, flex circuit, 125"	SAG7	Socket, straight, dip solder, .109" x .018" dia
PW34	Pin, straight, wire wrap [®] , .531"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PW40	Pin, straight, wire wrap [®] , .625"	SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination, 150" (connector saver)
		SAW24	Socket, straight, wire wrap [®] , 375"
		SAW40	Socket, straight, wire wrap [®] , 625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTA10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, 200"		
JTC	Hex turning jackset, .500"		
.ITI	Turning jackset long 700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTA10SAD9J-D01. Call factory for additional codes.
- -B82 Termination face sealed against conformal coating
- -342 Remove mounting ears (.250" each end)
- Pretinned contact terminations (except solder cups, wire wraps
 and flex contacts) with 63/37 or 60/40 solder. -D01
- Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- Solder cups fixed in an outward orientation (otherwise contacts will rotate)

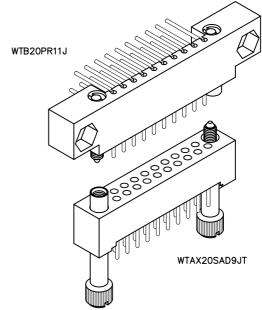


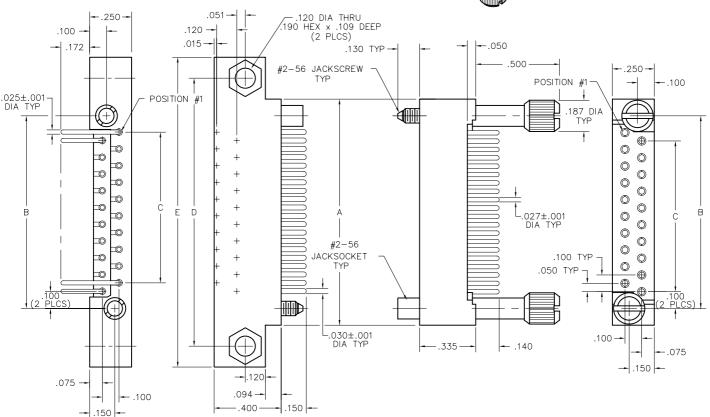
2 · ROW PC Card to Board or PC Card

.100"

WTB-WTAX

10 thru 70 Contacts





PLUG RECEPTACLE

	DIMENSIONS										
SIZE	Α	В	С	D	Е	SIZE	Α	В	С	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTB 20 PR11 J RECEPTACLE: WTAX 20 SAD9 JT

XXXX XX XXXX XX

PLUG RECEPTACLE

WTB

SERIES

Plug, right angle, with mounting ears

| WTAX Receptacle, straight, without mounting ears

SIZE

CONTACTS

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PR7	Pin, right angle, dip solder, .109" x .025" dia	SAC	Socket, straight, solder cup (.035" I.D.)
PR9	Pin, right angle, dip solder, .140" x .025" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PR15	Pin, right angle, dip solder, .234" x .025" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PRC	Pin, right angle, solder cup (.035" I.D.)	SAD15	Socket, straight, dip solder, .234" x .027" dia
PRW33	Pin, right angle, wire wrap [®] , .515"	SAF3	Socket, straight, flex circuit, 050"
PRW40	Pin, right angle, wire wrap [®] , .625"	SAF6	Socket, straight, flex circuit, .093"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination, .150" (connector saver)
		SAW24	Socket, straight, wire wrap [®] , .375"
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, 140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTB20PR11QJ.
 See "Gaskets" and "Hoods" in Accessories section for instructions.

SY Gu	ide set
SY-# Gu	ide set, polarized
SYL Gu	ide set, long
SYL-# Gu	ide set, long, polarized
J Fix	ed jackset
JL Fix	ed jackset, long
JT Tui	rning jackset, 500"
JTA Tui	rning jackset, 200"
JTB He	x turning jackset, 200"
JTC He	x turning jackset, 500"
JTL Tui	rning jackset, long, .700"
	SY-# Gu SYL- Gu SYL-# Gu J Fix JL Fix JT Tu JTA Tu JTB He JTC He

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTB10SAD9J-D01. Call factory for additional codes.
- -342 Remove mounting ears (.250" each end)
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. 🗵
- -P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- -B82 Termination face sealed against conformal coating. Receptacle connector only.

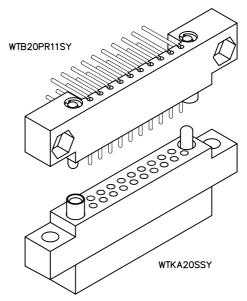


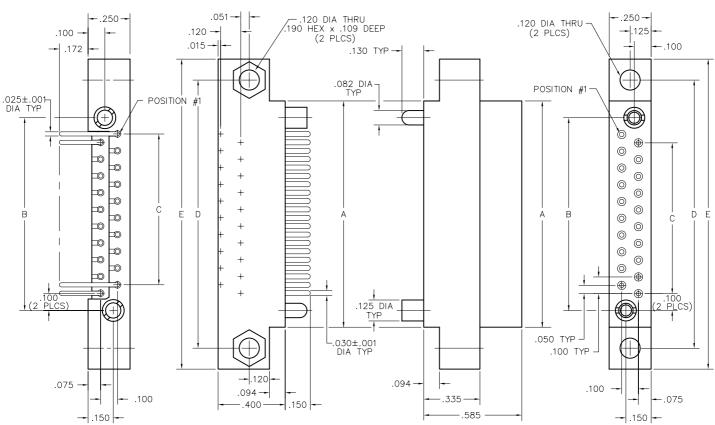
2 • ROW PC Card to Chassis

.100"

WTB - WTKA

10 thru 70 Contacts





PLUG	RECEPTACLE

	DIMENSIONS										
SIZE	Α	В	С	D	Ε	SIZE	Α	В	С	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTB 20 PR11 SY

RECEPTACLE: WTKA 20 S SY XXXX XX XXXX XX

PLUG RECEPTACLE

SERIES

TB Plug, right angle, with mounting ears | WTKA Receptacle, straight, crimp removable,

with mounting ears

WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70) XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors.
 See "Contacts" in Accessories section to order separately.
- · When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia

PR9 Pin, right angle, dip solder, .140" x .025" dia

PR11 Pin, right angle, dip solder, .172" x .025" dia

PRW40 Pin, right angle, wire wrap[®], .625"

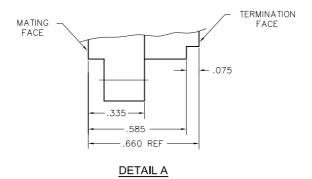
TYPE CONTACTS/TERMINATIONS:

S Socket, straight, crimp removable, 22 AWG

PAWG

Phin, straight, crimp removable, 22 AWG

- Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -444 Contact position noted by dash number is left open (to mate with -443).
- -478 Drill mating side hole diameter designated by dash number.
- -515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -A53 Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- -F68 Combine -C45 and -515 special codes.



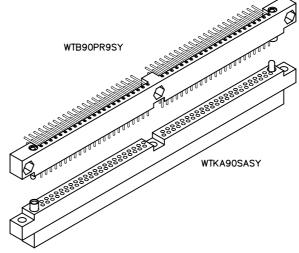


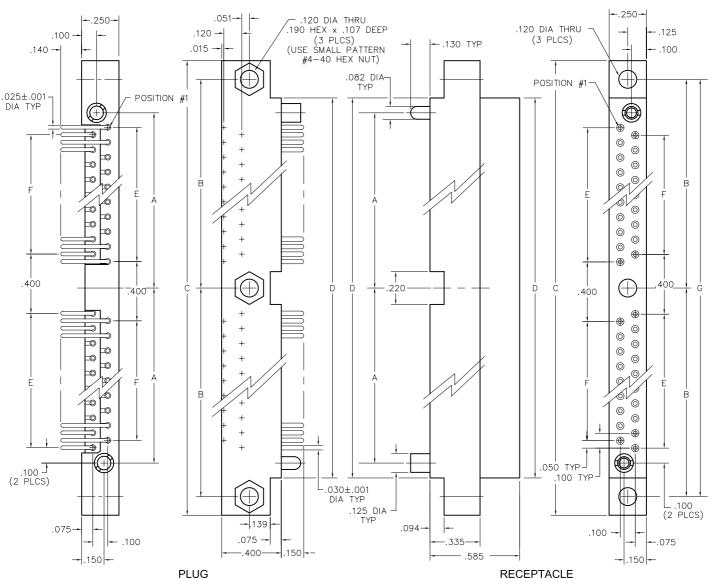
2 · ROW PC Card to Chassis

.100"

WTB - WTKA

90 & 120 Contacts





			DIME	NSIONS			
SIZE	Α	В	С	D	Ε	F	G
90	2.475	2.700	5.650	5.150	2.200	2.100	5.400
120	3.225	3.450	7.150	6.650	2.900	2.900	6.900



PLUG: WTB 90 PR9 SY RECEPTACLE: WTKA 90 SA SY

PLUG RECEPTACLE

XXXX XX XXX XX

SERIES

WTB Plug, right angle, with mounting ears | WTKA Receptacle, straight, crimp removable,

with mounting ears

WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (90 or 120) XX Number of contacts (90 or 120)

CONTACTS

The use of gaskets is not recommended with crimp socket contacts.

- WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors.
 See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

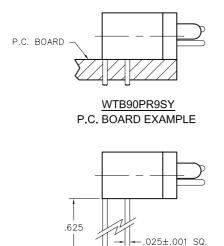
PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PRW40 Pin, right angle, wire wrap[®], .625"

TYPE CONTACTS/TERMINATIONS:
S Socket, straight, crimp removable, 22 AWG
PAWG
PR Pin, straight, crimp removable, 22 AWG

		HARDWARE	
SY	Guide set	SY Guide se	et
SY-#	Guide set, polarized	SY-# Guide se	et, polarized
J	Fixed jackset	J Fixed ja	ckset
JT	Turning jackset, .435"	JT Turning	jackset, .500"
JTA	Turning jackset, 135"	JTA Turning	jackset, .200"
JTB	Hex turning jackset, 135"	JTB Hex turn	ning jackset, .200"
JTC	Hex turning jackset, .435"	JTC Hex turr	ning jackset, .500"
ITI	Turning jackset long 635"	ITI Turning	jackset long 700"

OPTIONS

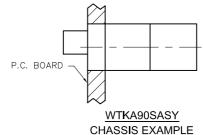
- Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -444 Contact position noted by dash number is left open (to mate with -443). Right angle only.
- -478 Drill mating side hole diameter designated by dash number (crimp only).
- -515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -A53 Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- -F68 Combine -C45 and -515 special codes.

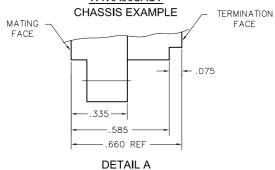


WTB90PRW40SY

WRAP EXAMPLE

WIRE





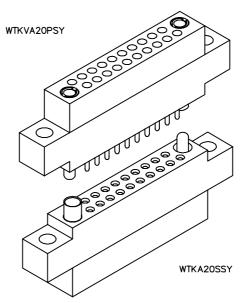


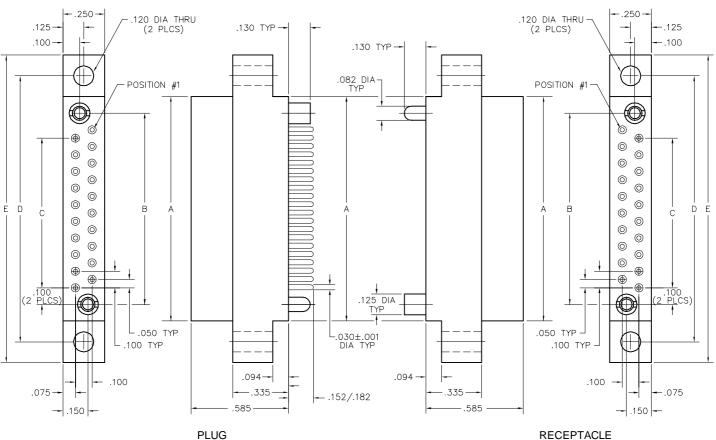
2 · ROW Chassis to Chassis

.100"

WTKVA - WTKA

10 thru 70 Contacts





					DIMEN	ISIONS					
SIZE	Α	В	С	D	Ε	SIZE	Α	В	С	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						



PLUG: WTKVA 20 P SY RECEPTACLE: WTKA 20 S SY

PLUG RECEPTACLE

xxxx xx xxxx xx

SERIES

WTKVA Plug, straight, crimp removable, with mounting ears WTKA Receptacle, straight, crimp removable,

with mounting ears

WTKVA and WTKA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70) XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

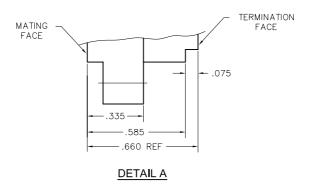
CONTACTS

- The use of gaskets is not recommended with crimp connectors.
- WTKVA** and WTKA includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors.
 See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

	5 1 55 7		1 9
	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
Р	Pin, straight, crimp removable, 22 AWG	S	Socket, straight, crimp removable, 22 AWG
S	Socket, straight, crimp removable, 22 AWG	SA	Same as above
SA	Same as above	Р	Pin, straight, crimp removable, 22 AWG

	HARDWARE				
SY SY-#	Guide set Guide set, polarized	SY SY-#	Guide set Guide set, polarized		
	Fixed jackset	J	Fixed jackset		
T TA	Turning jackset, .435" Turning jackset, .135"	JT JTA	Turning jackset, .500" Turning jackset, .200"		
JTB JTC	Hex turning jackset, .135"	JTB	Hex turning jackset, .200"		
JTL	Hex turning jackset, .435" Turning jackset, long, .635"	JTC JTL	Hex turning jackset, .500" Turning jackset, long, .700"		

- Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- -444 Contact position noted by dash number is left open (to mate with -443).
- -478 Drill mating side hole diameter designated by dash number.
- -515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- -A53 20 AWG, straight, crimp removable contact, pin or socket.
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- -F68 Combine -C45 and -515 special codes.



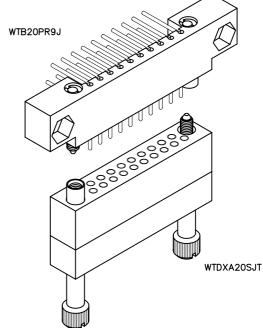


2 • ROW PC Card to Board

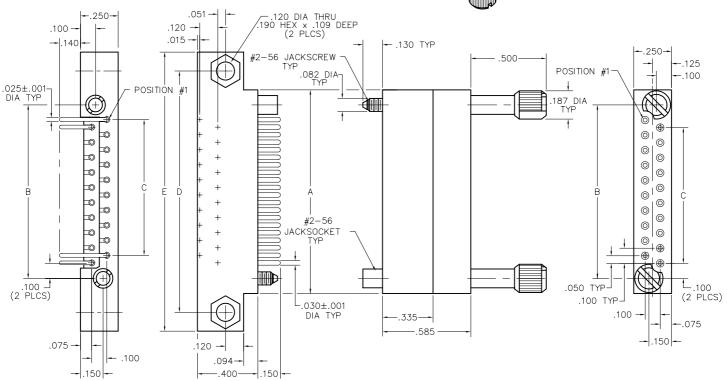
.100"

WTB - WTDXA

10 thru 70 Contacts



RECEPTACLE



					DIMEN	ISIONS					
SIZE	Α	В	С	D	Е	SIZE	Α	В	С	D	Ε
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG



PLUG: WTB 20 PR9 J

RECEPTACLE: WTDXA 20 S JT

PLUG RECEPTACLE XXXXX XX XXX XX

SERIES

WTB Plug, right angle, with mounting ears | WTDXA Receptacle, straight, crimp removable,

without mounting ears

WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70) XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

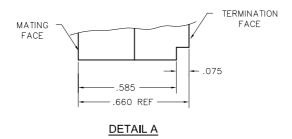
CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors.
 See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

Whom doing offine contacts with 20 gage barron, barron mass	t bo out o	m prior to removing contact from confidence bod
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia	S	Socket, straight, crimp removable, 22 AWG
PR9 Pin, right angle, dip solder, .140" x .025" dia	SA	Same as above
PR11 Pin, right angle, dip solder, .172" x .025" dia	Р	Pin, straight, crimp removable, 22 AWG
PRW40 Pin, right angle, wire wrap [®] , .625"		

		HARDWARE	
SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
J	Fixed jackset	J	Fixed jackset
JT	Turning jackset, 435"	JT	Turning jackset, 500"
JTA	Turning jackset, 135"	JTA	Turning jackset, 200"
JTB	Hex turning jackset, 135"	JTB	Hex turning jackset, 200"
JTC	Hex turning jackset, 435"	JTC	Hex turning jackset, .500"
JTL	Turning jackset, long, .635"	JTL	Turning jackset, long, .700"

- Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -444 Contact position noted by dash number is left open (to mate with -443). Right angle only.
- -478 Drill mating side hole diameter designated by dash number.
- -515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -A53 Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- -F68 Combine -C45 and -515 special codes.



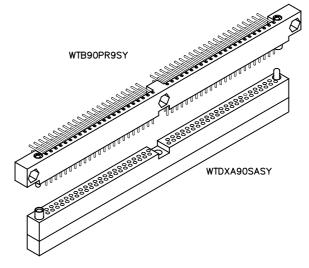


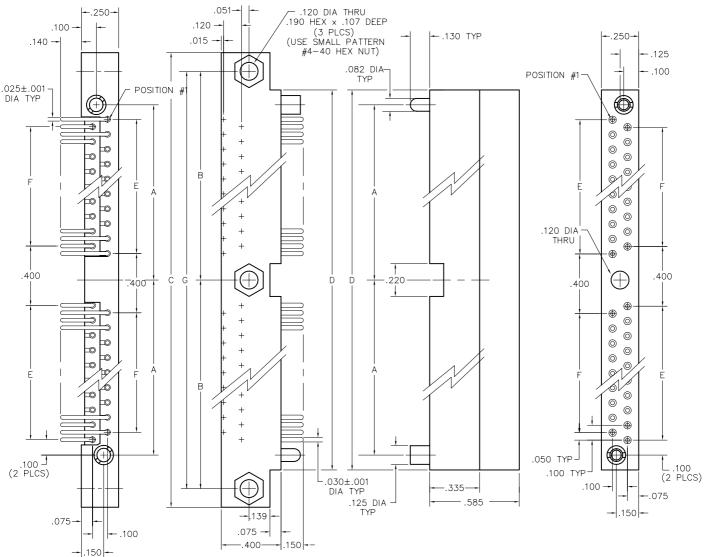
2 · ROW PC Card to Board

.100"

WTB - WTDXA

90 & 120 Contacts





DIMENSIONS							
SIZE	A	В	С	D	E	F	G
90	2.475	2.700	5.560	5.150	2.200	2.100	5.400
120	3.225	3.450	7.150	6.650	2.900	2.900	6.900

RECEPTACLE

PLUG



PLUG: WTB 90 PR9 SY

RECEPTACLE: WTDXA 90 SA XXXXX XX XXX XX

RECEPTACLE

SERIES

PLUG

Plug, right angle, with mounting ears WTDXA Receptacle, straight, crimp removable,

without mounting ears

• WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

Number of contacts (90 or 120) | xx Number of contacts (90 or 120) XX

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

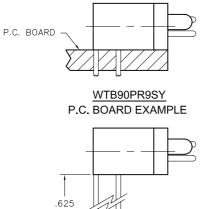
	TYPE CONTACTS/TERMINATIONS:	1	TYPE CONTACTS/TERMINATIONS:
PR7	Pin, right angle, dip solder, .109" x .025" dia	s	Socket, straight, crimp removable, 22 AWG
PR9	Pin, right angle, dip solder, 140" x .025" dia	SA	Same as above
PR11	Pin, right angle, dip solder, 172" x .025" dia	ΙP	Pin, straight, crimp removable, 22 AWG

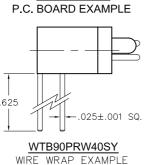
	HARDWARE						
SY	Guide set	SY	Guide set				
SY - #	Guide set, polarized	SY-#	Guide set, polarized				
J	Fixed jackset	J	Fixed jackset				
JT	Turning jackset, .435"	JT	Turning jackset, .500"				
JTA	Turning jackset, 135"	JTA	Turning jackset, .200"				
JTB	Hex turning jackset, .135"	JTB	Hex turning jackset, .200"				
JTC	Hex turning jackset, .435"	JTC	Hex turning jackset, .500"				
JTL	Turning jackset, long, .635"	JTL	Turning jackset, long, .700"				

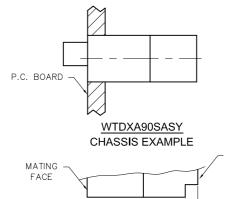
OPTIONS

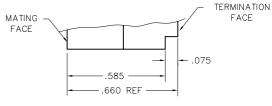
- Option Codes: Add to the end of the part number. Example: WTDXA90SSY-C45. Call factory for additional codes.
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- -444 Contact position noted by dash number is left open (to mate with -443). Right angle only.
- -478 Drill mating side hole diameter designated by dash number (crimp only).
- Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only. -515
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -A53 Socket, straight, crimp removable, 20 AWG
- Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below. -C45
- Combine -C45 and -515 special codes.

PRW40 Pin, right angle, wire wrap®, .625"









DETAIL A

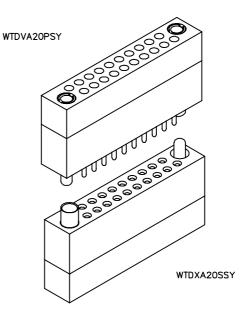


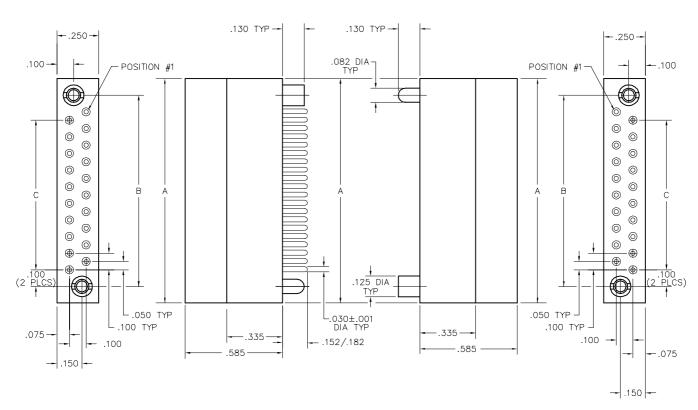
2 · ROW Chassis to Chassis

.100"

WTDVA - WTDXA

10 thru 70 Contacts





PLUG RECEPTACLE

	DIMENSIONS								
SIZE	Α	В	С	SIZE	Α	В	С		
10	.850	.650	.400	44	2.550	2.350	2.100		
14	1.050	.850	.600	50	2.850	2.650	2.400		
20	1.350	1.150	.900	54	3.050	2.850	2.600		
24	1.550	1.350	1.100	56	3.150	2.950	2.700		
26	1.650	1.450	1.200	60	3.350	3.150	2.900		
30	1.850	1.650	1.400	66	3.650	3.450	3.200		
36	2.150	1.950	1.700	70	3.850	3.650	3.400		
40	2.350	2.150	1.900						



PLUG: WTDVA 20 RECEPTACLE: WTDXA 20 S SY XXXX XX XXXX XX

PLUG RECEPTACLE

SERIES

WTDVA Plug, straight, crimp removable,

WTDXA Receptacle, straight, crimp removable,

without mounting ears

without mounting ears

WTDVA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

Number of contacts (10, 14, 20, 24, 26, 30, 36, 40,

44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- The use of gaskets is not recommended with crimp connectors.
- WTDVA** and WTDXA includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately.

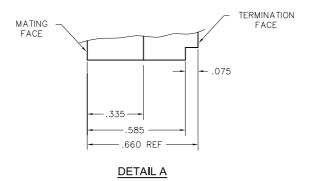
XX

· When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

	TYPE CONTACTS/TERMINATIONS:	1	TYPE CONTACTS/TERMINATIONS:
Р	Pin, straight, crimp removable, 22 AWG	s	Socket, straight, crimp removable, 22 AWG
S	Socket, straight, crimp removable, 22 AWG	SA	Same as above
SA	Same as above	Р	Pin, straight, crimp removable, 22 AWG

	HARD	WARE	
SY SY-#	Guide set Guide set, polarized	SY SY-#	Guide set Guide set, polarized
	Fixed jackset	J	Fixed jackset
T TA	Turning jackset, .435" Turning jackset, .135"	JT JTA	Turning jackset, .500" Turning jackset, .200"
JTB JTC	Hex turning jackset, .135"	JTB	Hex turning jackset, .200"
JTL	Hex turning jackset, .435" Turning jackset, long, .635"	JTC JTL	Hex turning jackset, .500" Turning jackset, long, .700"

- Option Codes: Add to the end of the part number. Example: WTDXA10SSY-C45. Call factory for additional codes.
- -443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- -444 Contact position noted by dash number is left open (to mate with -443).
- -478 Drill mating side hole diameter designated by dash number.
- -515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- -A53 20 AWG, straight, crimp removable contact, pin or socket.
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- -F68 Combine -C45 and -515 special codes.





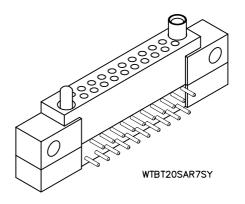
$2 \cdot \mathsf{ROW}$

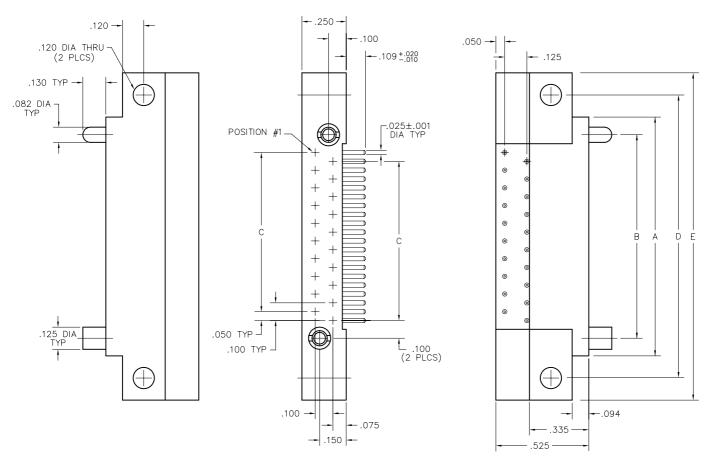
Extender Board Connector*

.100"

WTBT

10 thru 70 Contacts





RECEPTACLE

	DIMENSIONS										
SIZE	Α	В	С	D	Ε	SIZE	Α	В	С	D	Е
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

* = FOR TEST APPLICATIONS



RECEPTACLE: WTBT 20 SAR7 SY XXXX XX XXXX XX

RECEPTACLE

SERIES

WTBT Receptacle, right angle, with mounting ears

SIZE

XXNumber of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

TYPE CONTACTS/TERMINATIONS:

SARC Socket, right angle, solder cup (.035" I.D.) SAR7 Socket, right angle, dip solder, .109" x .025" dia SAR9 Socket, right angle, dip solder, .140" x .025" dia Socket, right angle, dip solder, .172" x .025" dia SAR11

HARDWARE

SY Guide set

Fixed jackset

JΤ Turning jackset, .475"

Turning jackset, 175" JTA

JTB Hex turning jackset, 175"

JTC Hex turning jackset, 475"

Turning jackset, long, 675"

• WTBT connectors with "J" hardware will mate with: WTA*****JT WTA****JTA

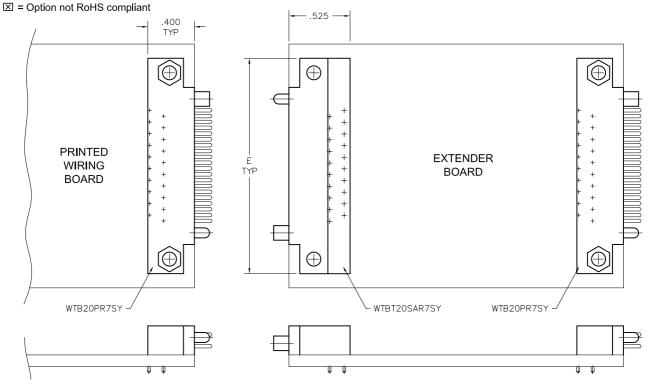
• WTBT connectors with "SY" hardware will mate with: WTB*****SY

WTAV****SY

For polarized "D" shaped guides, add dash and code number to the part number (example: -7). See "Polarization" in Accessories section for codes.

- Option Codes: Add to the end of the part number. Example: WTBT10SAR9J-D01. Call factory for additional codes.
- Remove mounting ears (.250" each end)
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -D01





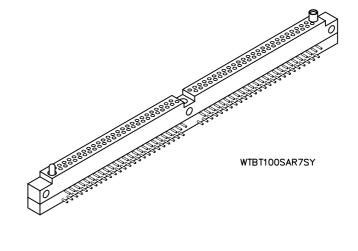
$2 \cdot \mathsf{ROW}$

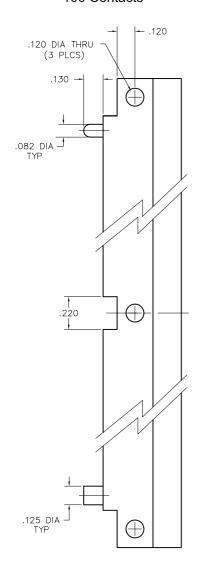
Extender Board Connector*

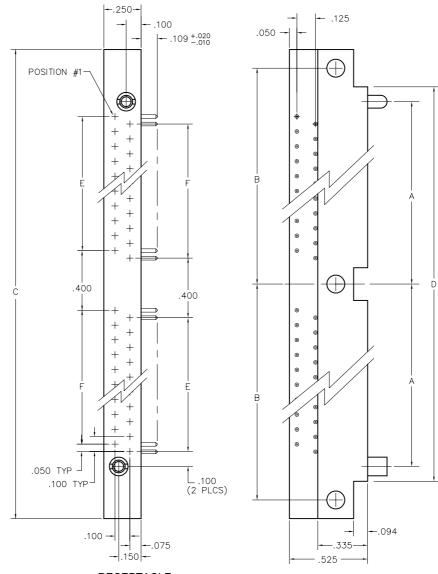
.100"

WTBT

100 Contacts







RECEPTACLE

DIMENSIONS							
SIZE	Α	В	С	D	E	F	
100	2.725	2.950	6.150	5.650	2.400	2.400	

^{*} = FOR TEST APPLICATIONS



RECEPTACLE: WTBT 100 SAR7 SY XXXX XXX XXXX XX

RECEPTACLE

SERIES

WTBT Receptacle, right angle, with mounting ears

WTBT connectors will mate with WTA, WTAV, WTB, WTBV.

SIZE

XXX Number of contacts (100)

CONTACTS

TYPE CONTACTS/TERMINATIONS:

SAR7 Socket, right angle, dip solder, .109" x .025" dia SAR9 Socket, right angle, dip solder, .140" x .025" dia SAR11 Socket, right angle, dip solder, .172" x .025" dia Socket, right angle, solder cup (.035" I.D.) SARC

HARDWARE

SY Guide set

JTL

SY-# Guide set, polarized Fixed jackset JΤ Turning jackset, 475" JTA Turning jackset, 175" JTB Hex turning jackset, 175" Hex turning jackset, 475" JTC

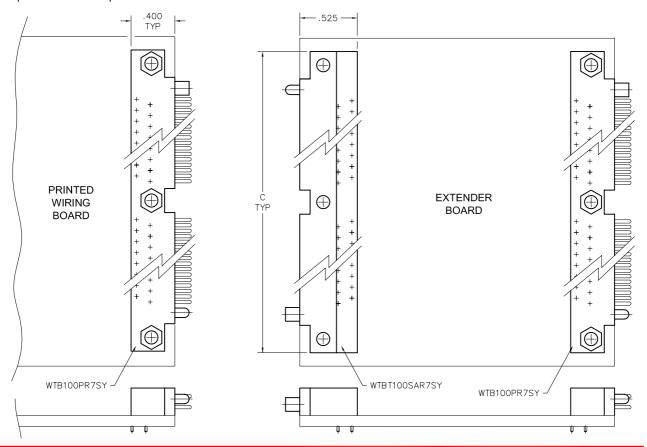
OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBT100SAR7SY342. Call factory for additional codes.
- Remove mounting ears (.250" each end) -342

Long turning jackset, .675"

- -D01
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).



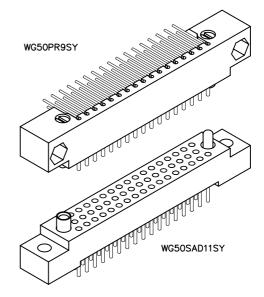


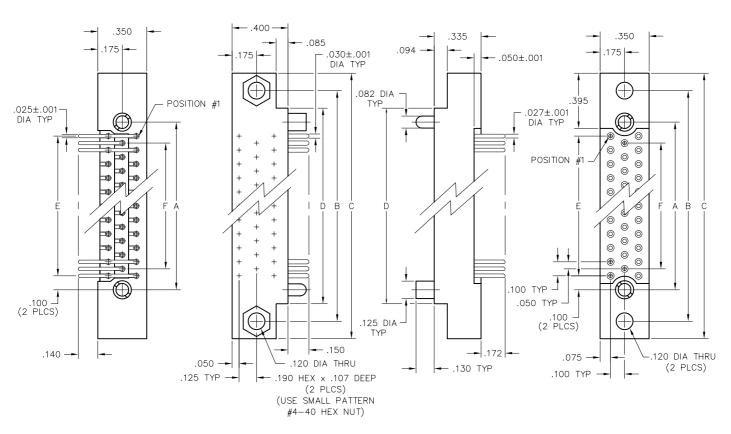
3 · ROW PC Card to Board or Chassis

.100"

WG - WG

50 thru 104 Contacts





PLUG RECEPTACLE

DIMENSIONS							
SIZE	Α	В	С	D	E	F	
50	1.800	2.250	2.500	2.000	1.600	1.500	
62	2.200	2.650	2.900	2.400	2.000	1.900	
80	2.800	3.250	3.500	3.000	2.600	2.500	
92	3.200	3.650	3.900	3.400	3.000	2.900	
104	3.600	4.050	4.300	3.800	3.400	3.300	



WG 50 PR9 SY RECEPTACLE: WG 50 SAD11 SY XX XX XXXXX XX

PLUG RECEPTACLE

		SERIES	
WG	Plug, right angle, with mounting ears	WG WG	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears
		SIZE	
XX	Number of contacts (50, 62, 80, 92, or 104)	xx	Number of contacts (50, 62, 80, 92, or 104)
		CONTACTS	

The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

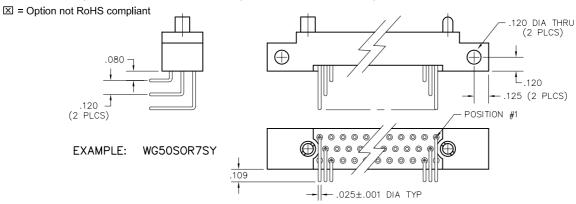
TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .025" dia Pin, right angle, dip solder, .140" x .025" dia Pin, right angle, dip solder, .172" x .025" dia Pin, right angle, dip solder, .234" x .025" dia Pin, right angle, wire wrap [®] , .531" Pin, right angle, wire wrap [®] , .656"	SAC SAD7 SAD9 SAD11 SAF3 SAF6 SAF9 SAG7 SAG9 SAG11 SAP	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup (.035" I.D.) Socket, straight, dip solder, .109" x .027" dia Socket, straight, dip solder, .140" x .027" dia Socket, straight, dip solder, .172" x .027" dia Socket, straight, flex circuit, .050" Socket, straight, flex circuit, .093" Socket, straight, flex circuit, .109" x .018" dia Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, pin termination .150", connector saver
	SAP	Socket, straight, pin termination .150", connector saver
		Socket, straight, wire wrap ^(B) , .375" Socket, straight, wire wrap ^(B) , .625"
	SOR7	Socket, right angle, dip solder, 109" x .025" dia
	SOR9 SOR11	Socket, right angle, dip solder, .140" x .025" dia Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG50PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, 135"	JL	Fixed jackset, long
JTB	Hex turning jackset, .135"		
JTC	Hex turning jackset, .435"		
ITI	Turning jackset Jong, 635"		

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
- Remove mounting ears. (.250" each end)
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -B82 Termination face sealed against conformal coating
- -D01
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -P39
- -D54 Combine -B82 & -D01 options
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)



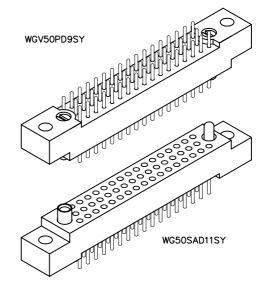


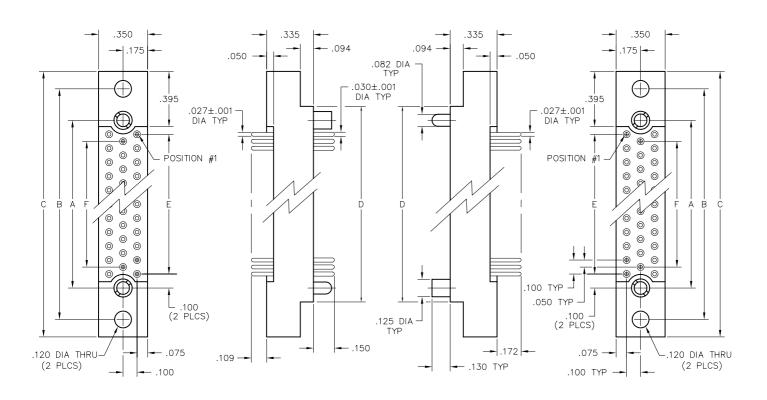
3 · ROW Sandwich Boards

.100"

WGV - WG

50 thru 104 Contacts





PLUG RECEPTACLE

DIMENSIONS							
SIZE	Α	В	С	D	E	F	
50	1.800	2.250	2.500	2.000	1.600	1.500	
62	2.200	2.650	2.900	2.400	2.000	1.900	
80	2.800	3.250	3.500	3.000	2.600	2.500	
92	3.200	3.650	3.900	3.400	3.000	2.900	
104	3.600	4.050	4.300	3.800	3.400	3.300	



PLUG: WGV 50 PD9 SY RECEPTACLE: WG 50 SAD11 SY XXX XX XXXXX XX

PLUG RECEPTACLE

			·· ·· ·· · · · · · · · · · · · · · · ·			
SERIES						
WGV	Plug, with mounting ears	WG WG	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears			
		SIZE				
XX	Number of contacts (50, 62, 80, 92, or 104)	xx	Number of contacts (50, 62, 80, 92, or 104)			

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, 109" x .027" dia	SAD7	Socket, straight, dip solder, 109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, 140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, 172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF3	Pin, straight, flex circuit, .050"	SAF6	Socket, straight, flex circuit, .093"
PF6	Pin, straight, flex circuit, .093"	SAF9	Socket, straight, flex circuit, 140"
PF8	Pin, straight, flex circuit, .125"	SAG7	Socket, straight, dip solder, .109" x .018" dia
PW34	Pin, straight, wire wrap [®] , .531"	SAG9	Socket, straight, dip solder, .140" x .018" dia
PW40	Pin, straight, wire wrap [®] , .625"	SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
			Socket, straight, wire wrap ^(R) , .375"
		SAW40	Socket, straight, wire wrap ^(R) , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGV50PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .500"	JT	Turning jackset, 500"
JTA	Turning jackset, .200"	JTA	Turning jackset, 200"
JTB	Hex turning jackset, .200"	JTB	Hex turning jackset, 200"
JTC	Turning jackset, .500"	JTC	Turning jackset, 500"
JTL	Turning jackset, long, .700"	JTL	Turning jackset, long, .700"

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
- Remove mounting ears. (.250" each end)
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39
- Solder cups fixed in an outward orientation (otherwise contacts will rotate)

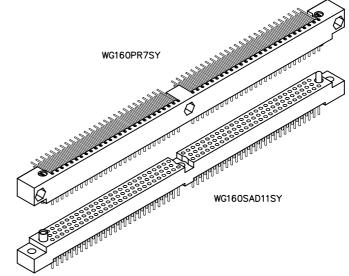


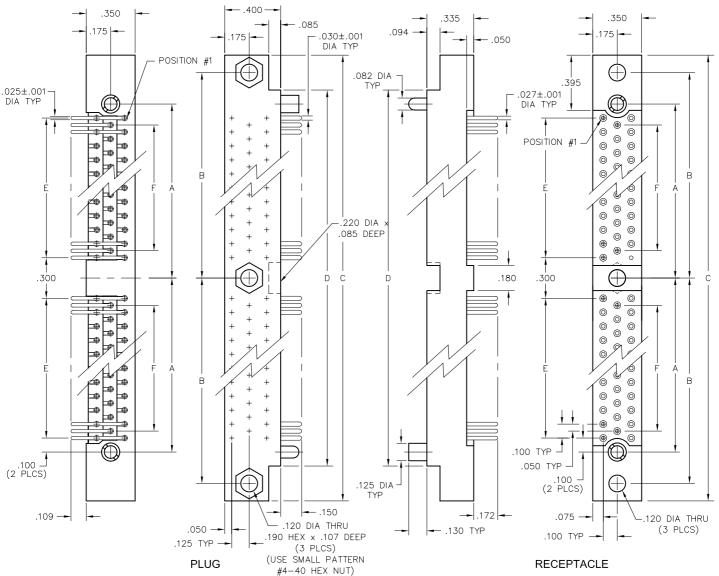
3 · ROW PC Card to Board or PC Card

.100"

WG - WG

160 & 208 Contacts





	DIMENSIONS							
SIZE	Α	В	С	D	Е	F		
160	2.850	3.075	6.400	5.900	2.600	2.500		
208	3.650	3.875	8.000	7.500	3.400	3.300		



PLUG: WG 160 PR7 SY RECEPTACLE: WG 160 SAD11 SY XX XXX XXXXX XX

PLUG RECEPTACLE

		SERIES			
WG	Plug, right angle, with mounting ears	WG WG	Receptacle, straight, with mounting ears Receptacle, right angle, with mounting ears		
SIZE					
XX	Number of contacts (160 or 208)	xx	Number of contacts (160 or 208)		

CONTACTS

The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

	r santasta ana rasapitasia intaga.		
	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PR7	Pin, right angle, dip solder, .109" x .025" dia	SAC	Socket, straight, solder cup (.035" I.D.)
PR9	Pin, right angle, dip solder, .140" x .025" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
		SAD11	Socket, straight, dip solder, .172" x .027" dia
		SAF3	Socket, straight, flex circuit, .050"
		SAF6	Socket, straight, flex circuit, .093"
		SAF9	Socket, straight, flex circuit, .140"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SAW24	Socket, straight, wire wrap [®] , .375"
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG160PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY - #	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, .135"	JL	Fixed jackset, long
JTB	Hex turning jackset, 135"		-
ITC	Hey turning jackeet 435"		

OPTIONS

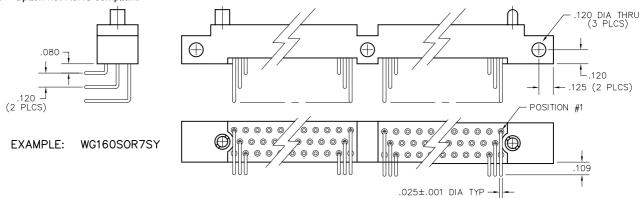
- Option Codes: Add to the end of the part number. Example: WG160PR9SY548. Call factory for additional codes.
- -342 Remove mounting ears. (.250" each end)

Turning jackset, long, .635"

JTL

- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -B82 Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with SAC305 solder (lead free). -D01
- -P39
- Solder cups fixed in an outward orientation (otherwise contacts will rotate) -G69



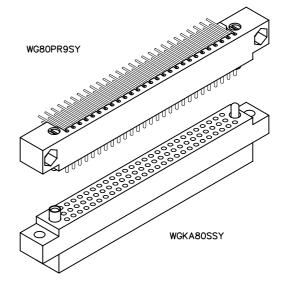


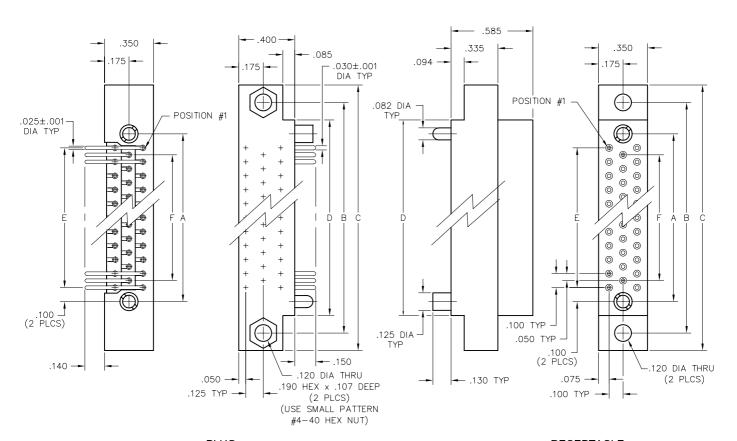
3 · ROW PC Card to Chassis

.100"

WG-WGKA

50 thru 160





PLUG RECEPTACLE

	DIMENSIONS							
SIZE	Α	В	С	D	E	F		
50	1.800	2.250	2.500	2.000	1.600	1.500		
62	2.200	2.650	2.900	2.400	2.000	1.900		
80	2.800	3.250	3.500	3.000	2.600	2.500		
92	3.200	3.650	3.900	3.400	3.000	2.900		
104	3.600	4.050	4.300	3.800	3.400	3.300		
160*	2.850	3.075	6.400	5.900	2.600	2.500		

^{*} = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION



PLUG: WG 80 PR9 RECEPTACLE: WGKA 80 S SY

PLUG RECEPTACLE XXXX XX XXX XX

SERIES

WG Plug, right angle, with mounting ears **WGKA** Receptacle, straight, crimp removable,

with mounting ears

WGKA and WGDXA also mate with WGV connectors. "A" means contacts are included.

SIZE

Number of contacts (50, 62, 80, 92, 104 or 160) XX

Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

| xx

The use of gaskets is not recommended with crimp socket contacts.

The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

S

When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia Socket, straight, crimp removable, 22 AWG

PR9 Pin, right angle, dip solder, .140" x .025" dia PR11 Pin, right angle, dip solder, .172" x .025" dia PRW40 Pin, right angle, wire wrap[®], .625" SA Same as above Pin, straight, crimp removable, 22 AWG

HARDWARE

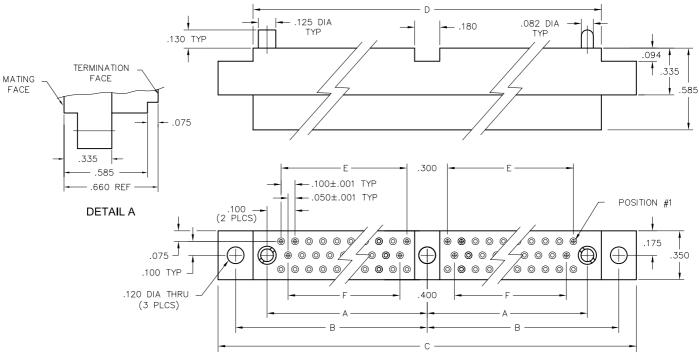
Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTA10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY Guide set Guide set

SY-# Guide set, polarized SY-# Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGKA80SSY-C45. Call factory for additional codes.
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- Socket, straight, crimp removable, 20 AWG -A53
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



EXAMPLE: WGKA160SSY

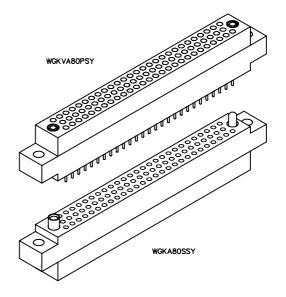


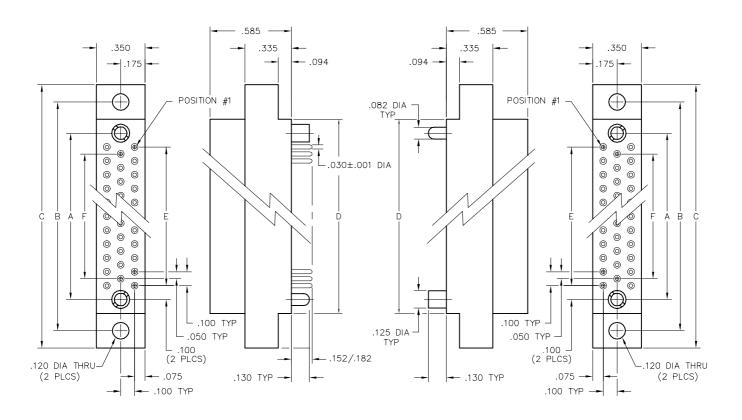
3 · ROW Chassis to Chassis

.100"

WGKVA - WGKA

50 thru 160





PLUG RECEPTACLE

DIMENSIONS							
SIZE	Α	В	С	D	Е	F	
50	1.800	2.250	2.500	2.000	1.600	1.500	
62	2.200	2.650	2.900	2.400	2.000	1.900	
80	2.800	3.250	3.500	3.000	2.600	2.500	
92	3.200	3.650	3.900	3.400	3.000	2.900	
104	3.600	4.050	4.300	3.800	3.400	3.300	
160*	2.850	3.075	6.400	5.900	2.600	2.500	

^{* =} SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION



PLUG: WGKVA 80 RECEPTACLE: WGKA 80 S SY

XXXXX XX XXX XX

PLUG RECEPTACLE

SERIES

WGKVA Plug, straight, crimp removable, with mounting ears

WGKA Receptacle, straight, crimp removable,

with mounting ears

WGKVA and WGKA also mate with WG or WGV connectors. "A" means contacts are included.

SIZE

Number of contacts (50, 62, 80, 92, 104 or 160) | xx XXNumber of contacts (50, 62, 80, 92, 104 or 160)

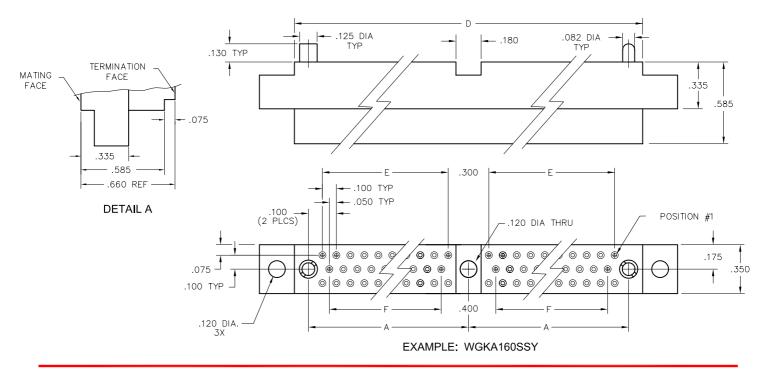
CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

	TYPE CONTACTS/TERMINATIONS:	1	TYPE CONTACTS/TERMINATIONS:
Р	Pin, straight, crimp removable, 22 AWG	s	Socket, straight, crimp removable, 22 AWG
S	Socket, straight, crimp removable, 22 AWG	SA	Same as above
SA	Same as above	ΙP	Pin straight crimp removable 22 AWG

		HARDWARE		
SY	Guide set	SY	Guide set	
SY-#	Guide set, polarized	SY-#	Guide set, polarized	
J	Fixed jackset	J	Fixed jackset	
JT	Turning jackset, .500"	JT	Turning jackset, .500"	
JTA	Turning jackset, .200"	JTA	Turning jackset, .200"	
JTB	Hex turning jackset, .200"	JTB	Hex turning jackset, .200"	
JTC	Hex turning jackset, .500"	JTC	Hex turning jackset, .500"	
JTL	Turning jackset, long, .700"	JTL	Turning jackset, long, 700"	

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



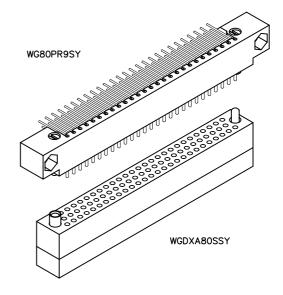


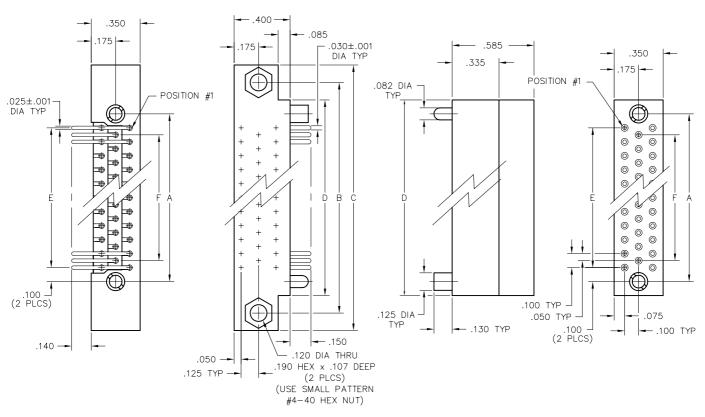
3 · ROW PC Card to Chassis

.100"

WG-WGDXA

50 thru 160





PLUG RECEPTACLE

DIMENSIONS							
SIZE	Α	В	С	D	Е	F	
50	1.800	2.250	2.500	2.000	1.600	1.500	
62	2.200	2.650	2.900	2.400	2.000	1.900	
80	2.800	3.250	3.500	3.000	2.600	2.500	
92	3.200	3.650	3.900	3.400	3.000	2.900	
104	3.600	4.050	4.300	3.800	3.400	3.300	
160*	2.850	3.075	6.400	5.900	2.600	2.500	

^{*} = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION



PLUG: WG 80 PR9 SY RECEPTACLE: WGDXA 80 S SY

XXXXX XX XXX XX

RECEPTACLE

SERIES

WG Plug, right angle, with mounting ears

PLUG

WGDXA Receptacle, straight, crimp removable,

without mounting ears

WGKA and WGDXA also mate with WGV connectors. "A" means contacts are included.

SIZE

Number of contacts (50, 62, 80, 92, 104 or 160) XX

| xx Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- The contact type determines the image of the connector. Pin, right angle contacts are always plug image. Straight pin or sockets are receptacle image.
- · When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

	TYPE CONTACTS/TERMINATIONS:
PR7	Pin, right angle, dip solder, .109" x .025" dia

Pin, right angle, dip solder, 109" x .025" dia

PR9 Pin, right angle, dip solder, .140" x .025" dia PR11 Pin, right angle, dip solder, .172" x .025" dia PRW40 Pin, right angle, wire wrap[®], .625"

TYPE CONTACTS/TERMINATIONS:

- Socket, straight, crimp removable, 22 AWG
- SA Same as above
- Pin, straight, crimp removable, 22 AWG

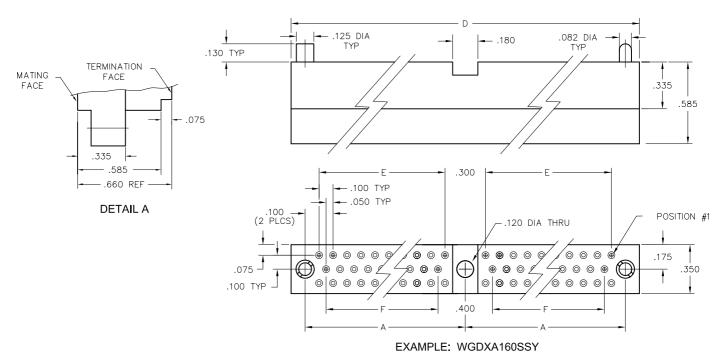
HARDWARE

S

SY Guide set SY Guide set SY-# Guide set, polarized Guide set, polarized SY-# Fixed jackset Fixed jackset .1 JT Turning jackset, 500" JTA Turning jackset, 200" Hex turning jackset, 200" JTB

Hex turning jackset, 500" JTC JTL Turning jackset, long, .700"

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -A53 Socket, straight, crimp removable, 20 AWG
- Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below. -C45



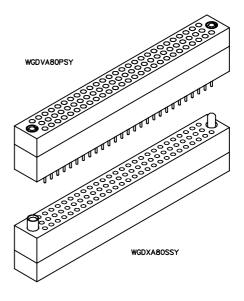


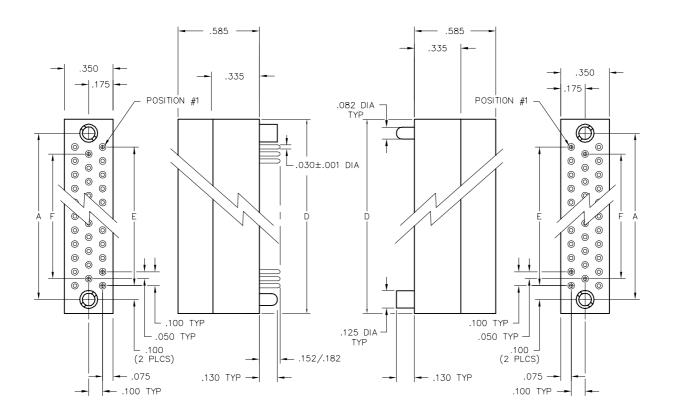
3 · ROW Chassis to Chassis

.100"

WGDVA - WGDXA

50 thru 160





PLUG RECEPTACLE

DIMENSIONS							
SIZE	Α	D	Ε	F			
50	1.800	2.000	1.600	1.500			
62	2.200	2.400	2.000	1.900			
80	2.800	3.000	2.600	2.500			
92	3.200	3.400	3.000	2.900			
104	3.600	3.800	3.400	3.300			
160*	2.850	5.900	2.600	2.500			

* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION



PLUG: WGDVA 80 P SY RECEPTACLE: WGDXA 80 S SY

XXXXX XX XXX XX

PLUG RECEPTACLE

SERIES

WGDVA Plug, straight, crimp removable, without mounting ears

WGDXA Receptacle, straight, crimp removable, without mounting ears

WGDVA and WGDXA also mate with WG or WGV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (50, 62, 80, 92, 104 or 160) | XX Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

The use of gaskets is not recommended with crimp socket contacts.

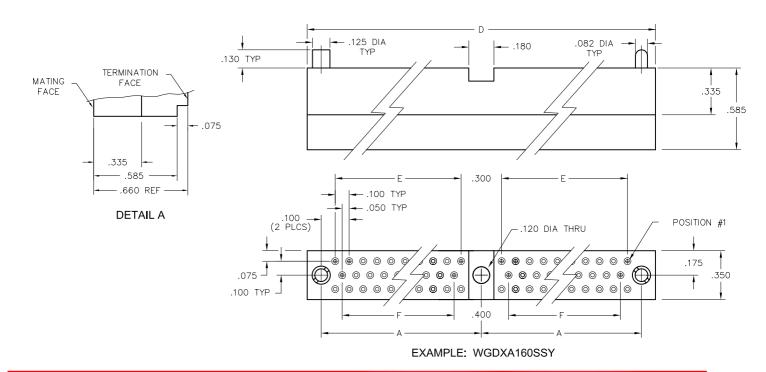
· When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
Р	Pin, straight, crimp removable, 22 AWG	s	Socket, straight, crimp removable, 22 AWG
S	Socket, straight, crimp removable, 22 AWG	SA	Same as above
SΔ	Same as ahove	l p	Pin straight crimp removable 22 AWG

A Same as above P Pin, straight, crimp removable, 22 AW

	HARDWARE				
SY	Guide set	SY	Guide set		
SY-#	Guide set, polarized	SY-#	Guide set, polarized		
J	Fixed jackset	J	Fixed jackset		
JT	Turning jackset, .500"	JT	Turning jackset, .500"		
JTA	Turning jackset, .200"	JTA	Turning jackset, .200"		
JTB	Hex turning jackset, .200"	JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"	JTC	Hex turning jackset, .500"		
JTL	Turning jackset, long, 700"	JTL	Turning jackset, long, 700"		

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- -A53 Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



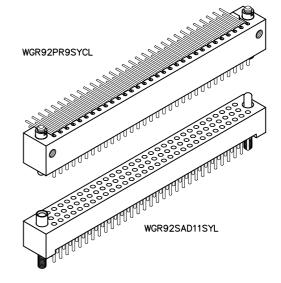


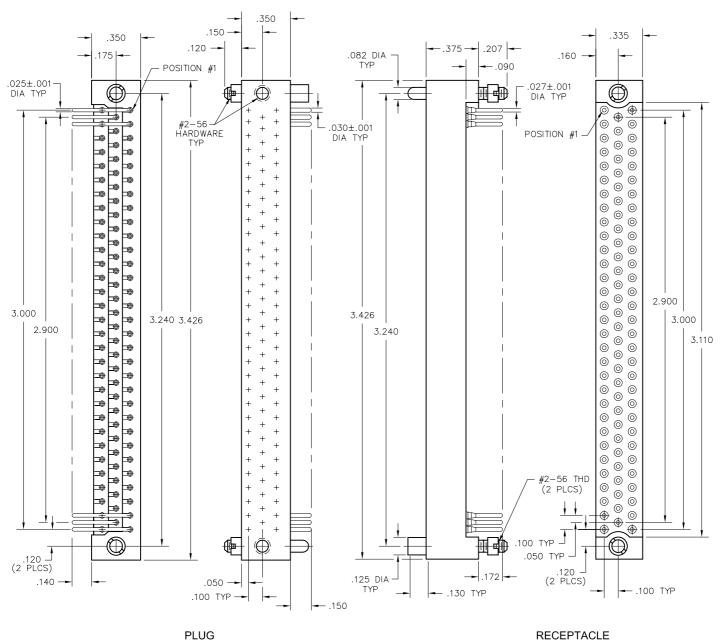
3 · ROW PC Card to Board or Chassis

.100"

WGR-WGR

92 Contacts







PLUG: WGR 92 PR9 SYCL RECEPTACLE: WGR 92 SAD11 SYL XXX XX XXXXX XXXX

PLUG RECEPTACLE

SERIES WGR Plug, right angle, without mounting ears | WGR Receptacle, straight, without mounting ears **SIZE** 92 Number of contacts Number of contacts

CONTACTS

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
		SAC	Socket, straight, solder cup (.035" I.D.)
PR7	Pin, right angle, dip solder, .109" x .025" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
		SAD16	Socket, straight, dip solder, .250" x .027" dia
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SAW40	Socket, straight, wire wrap [®] , .625"
		SAF6	Socket, straight, flex circuit, .093"

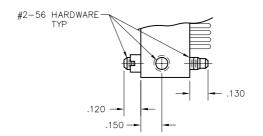
HARDWARE

SYCL	Guide set, cross hole mount	SYL	Guide set, long
JCL	Fixed jackset, cross hole mount	JT	Turning jackset, .460"
		JTA	Turning jackset, 160"

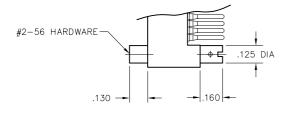
OPTIONS

- Option Codes: Add to the end of the part number. Example: WGR92PR9JCL-D01. Call factory for additional codes.
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free).

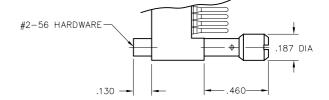
92



EXAMPLE: -JCL HARDWARE (PLUG)







EXAMPLE: -JT HARDWARE (RECEPTACLE)

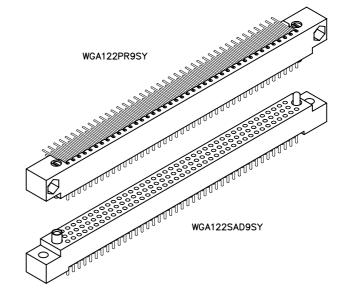


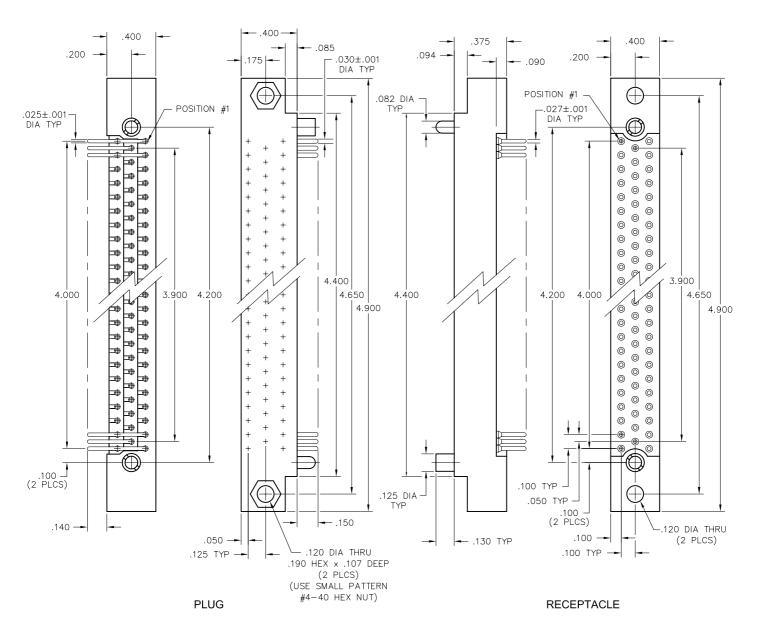
3 · ROW **PC Card to Board or Chassis**

.100"

WGA - WGA

122 Contacts





W - 55



PLUG: WGA 122 PR9 SY

RECEPTACLE: WGA 122 SAD9 SY **PLUG RECEPTACLE** XXX XXX XXXX XX

SERIES WGA Plug, right angle, with mounting ears WGA Receptacle, straight, with mounting ears WGA Receptacle, right angle, with mounting ears SIZE 122 Number of contacts 122 Number of contacts CONTACTS

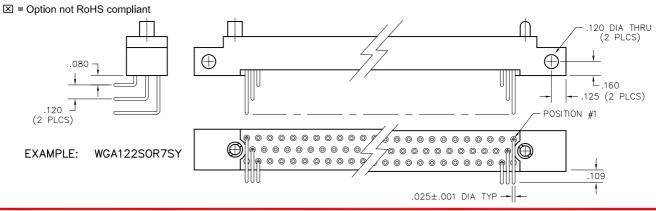
The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: PR7 Pin, right angle, dip solder, .109" x .025" dia SAC Socket, straight, solder cup (.035" I.D.) SAD7 PR9 Pin, right angle, dip solder, 140" x .025" dia Socket, straight, dip solder, .109" x .027" dia PR11 Pin, right angle, dip solder, 172" x .025" dia PRW32 Pin, right angle, wire wrap[®], .500" SAD9 Socket, straight, dip solder, 140" x .027" dia Socket, straight, dip solder, .172" x .027" dia SAD11 SAF3 Socket, straight, flex circuit, 050" Socket, straight, flex circuit, .093" SAF6 SAF9 Socket, straight, flex circuit, 140" SAG7 Socket, straight, dip solder, 109" x .018" dia SAG9 Socket, straight, dip solder, .140" x .018" dia SAG11 Socket, straight, dip solder, .172" x .018" dia SAP Socket, straight, pin termination .150", connector saver Socket, straight, wire wrap[®], .375" Socket, straight, wire wrap[®], .625" SAW24 SAW40 Socket, right angle, dip solder, 109" x .025" dia SOR7 SOR9 Socket, right angle, dip solder, .140" x .025" dia SOR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE SY Guide set SY Guide set SY-# Guide set, polarized SY-# Guide set, polarized SYL Guide set, long SYL Guide set, long Fixed jackset Fixed jackset J JT Turning jackset, 435" JL Fixed jackset, long Turning jackset, 135" JT Turning jackset, .460" JTA JTB Hex turning jackset, 135" JTA Turning jackset, .160" **JTC** Turning jackset, .435' JTB Hex turning jackset, .160" Turning jackset, long, .635" JTC Turning jackset, .460" JTL JTL Turning jackset, long, .660"

- Option Codes: Add to the end of the part number. Example: WGA122PR9SY548. Call factory for additional codes.
- Remove mounting ears. (.250" each end) -342
- -548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- -B82 Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with SAC305 solder (lead free). -D01
- -P39
- -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- Straight pin contacts in right angle plug molding with solder cup terminals extending .100" beyond molding. -413
- Combine -B82 and -D01 special codes. -D54





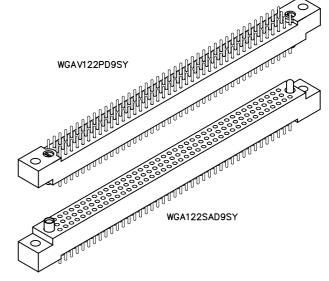
3 · ROW Sandwich

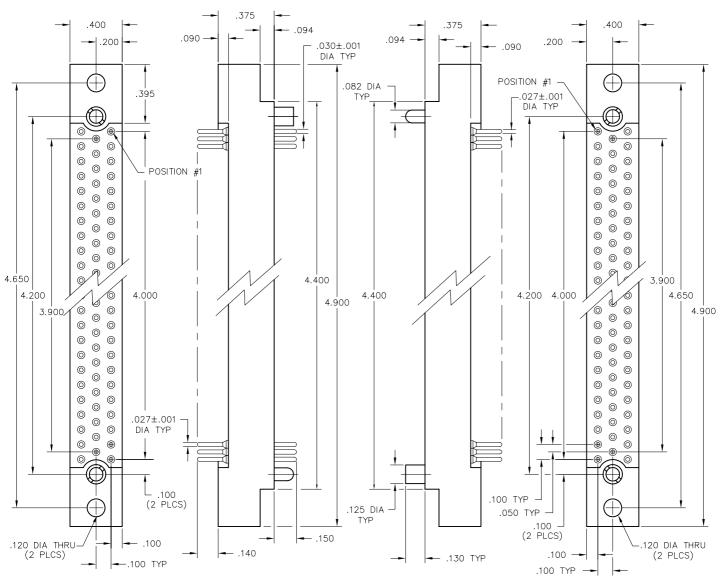
.100"

Boards

WGAV - WGA

122 Contacts





PLUG RECEPTACLE



PLUG: WGAV 122 PD9 SY RECEPTACLE: WGA 122 SAD9 SY

PLUG RECEPTACLE

XXXX XXX XXXX XX **SERIES** WGAV Plug, straight, with mounting ears Receptacle, straight, with mounting ears WGA WGA Receptacle, right angle, with mounting ears

SIZE

122 Number of contacts 122 Number of contacts

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, 109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"	SAF6	Socket, straight, flex circuit, .093"
		SAF9	Socket, straight, flex circuit, .140"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, 172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SAW24	Socket, straight, wire wrap [®] , .375"
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, 109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

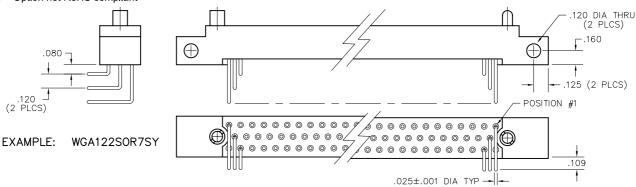
HARDWARE

Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGAV122PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .460"	JT	Turning jackset, .460"
JTA	Turning jackset, .160"	JTA	Turning jackset, .160"
JTB	Hex turning jackset, .160"	JTB	Hex turning jackset, 160"
JTC	Hex turning jackset, .460"	JTC	Hex turning jackset, .460"
JTL	Turning jackset, long, .660"	JTL	Turning jackset, long, .660"

- Option Codes: Add to the end of the part number. Example: WGAV122PD9SY-D01. Call factory for additional codes.
- Remove mounting ears. (.250" each end)
- -B82 Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps [®] and flex contacts) with SAC305 solder (lead free). -D01
- Solder cups fixed in an outward orientation (otherwise contacts will rotate) -G69





4 · ROW

Cable to Board or Panel

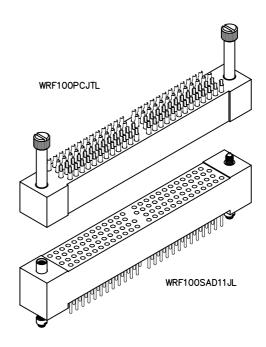
.100"

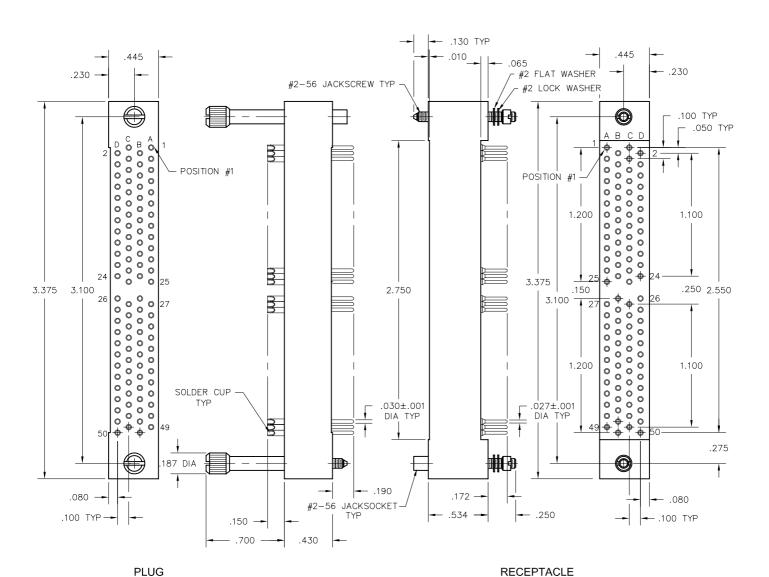
WRF-WRF

100 Contacts

"W" Series Connectors

W - 59







PLUG: WRF 100 PC RECEPTACLE: WRF 100 SAD11 JL

XXX XXX XXXXX XXX

PLUG RECEPTACLE

		SERIES		
WRF	Plug, straight, without mounting ears	WRF	Receptacle, straight, without mounting ears	
		SIZE		
100	Number of contacts	100	Number of contacts	
		CONTACTS		

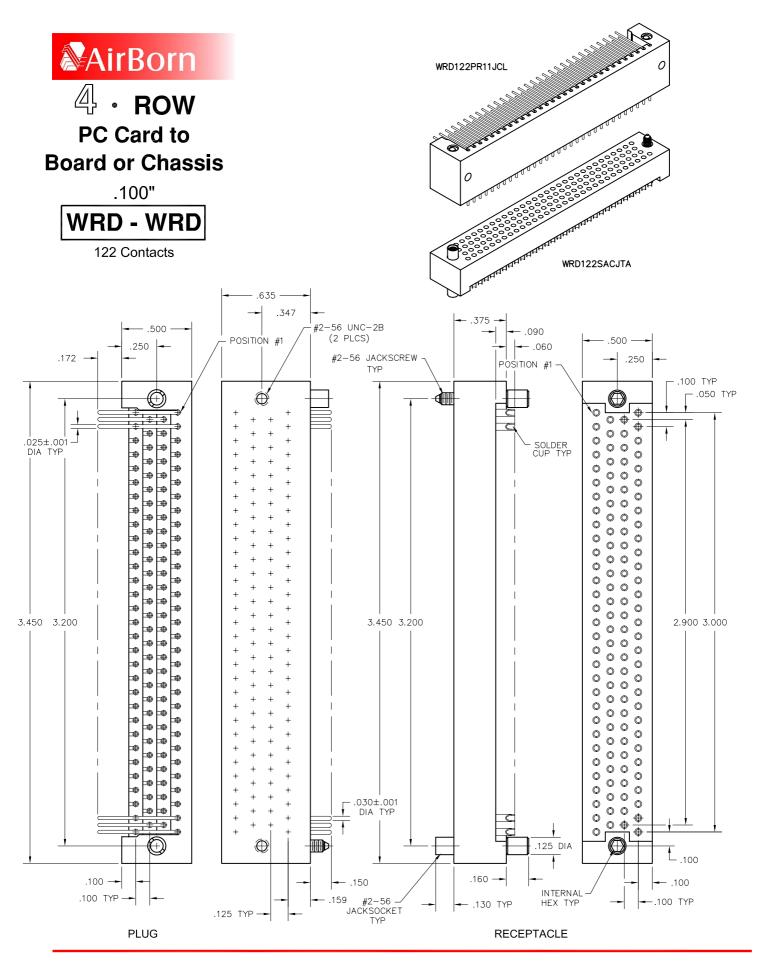
• Contact identification: Looking at the mating face of the connector, each contact has a double indicator designation, including a row letter and a position number. Rows "A" & "C" contain odd numbers 1 thru 49; rows "B" & "D" contain even numbers 2 thru 50.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup	SAC	Socket, straight, solder cup (.035" I.D.)
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PF6	Pin, straight, flex circuit, .093"	SAD11	Socket, straight, dip solder, .172" x .027" dia
		SAP	Socket, straight, pin termination .150", connector saver

		HARDWARE		
JTB JTI	Hex turning jackset, .200"		Fixed jackset Fixed jackset, long	

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRF100SAD11JL-D54. Call factory for additional codes.
- Termination face sealed against conformal coating
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free). -D01
- Combine -B82 & -D01 special codes -D54





PLUG: WRD 122 PR11 JCL RECEPTACLE: WRD 122 SAC JTA

PLUG		RECE	PTACLE	XXX	XXX	XXXX	XX
	SEI	RIES		7			
WRD	Plug, right angle, without mounting ears	WRD WRD	Receptacle, straight, without mounting ears Receptacle, right angle, without mounting ears				
	SI	ZE		7			
122	Number of contacts	122	Number of contacts				
	CONT	TACTS		7			
PR5 PR7 PR9 PR11	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .078" x .025" dia Pin, right angle, dip solder, .109" x .025" dia Pin, right angle, dip solder, .140" x .025" dia Pin, right angle, dip solder, .172" x .025" dia	SAC SAD7 SAD9 SAD1! SAF3 SAF6 SAG7 SAG9 SAG1 SAP SOR9	 Socket, straight, dip solder, .234" x .027" dia Socket, straight, flex circuit, .050" Socket, straight, flex circuit, .093" Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, dip solder, .172" x .018" dia Socket, straight, pin termination .150", connector straight, pin termination .150", connector straight. 	saver			
	HARD	WARE					
SYCL SYCL-# JCL JTB	Guide set, cross hole mount Guide set, cross hole mount, polarized Fixed jackset, cross hole mount Turning jackset, no cross hole	J JTA JTB JTL	Fixed Jackset Turning jackset, .160" Hex turning jackset, .160" Long turning jackset, .640"	_			

OPTIONS

SY

SY-#

Guide set

Guide set, polarized

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D54. Call factory for additional codes.
- Termination face sealed against conformal coating -B82
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39
- Combine -B82 & -D01 special codes



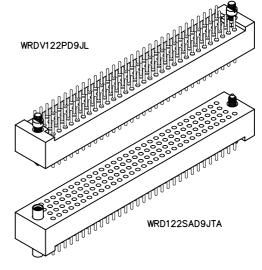
4 · ROW

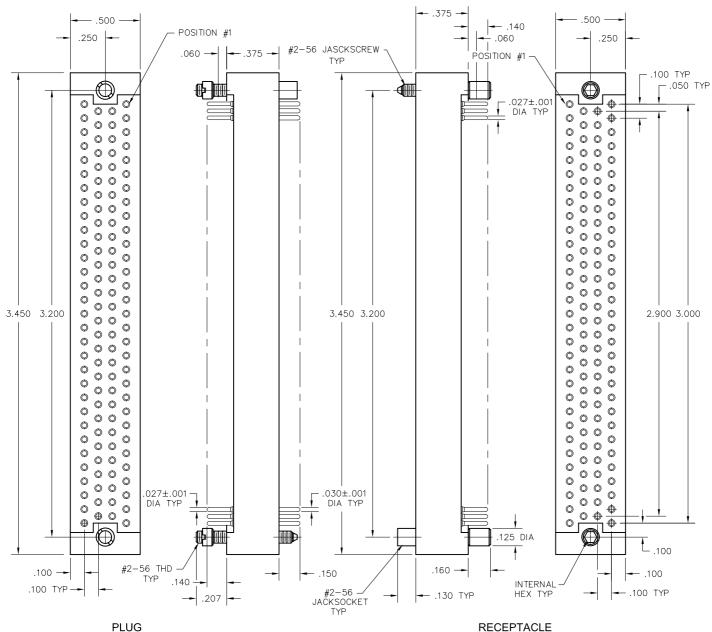
Sandwich Boards

.100"

WRDV - WRD

122 Contacts







PLUG: WRDV 122 PD9 JL RECEPTACLE: WRD 122 SAD9 JTA XXXX XXX XXXX XXX

PLUG RECEPTACLE

		SERIES	
WRD	V Plug, straight, without mounting ears		Receptacle, straight, without mounting ears Receptacle, right angle, without mounting ears
		SIZE	
122	Number of contacts	122	Number of contacts

CONTACTS

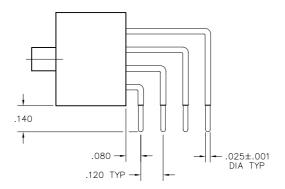
- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

	TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia	SAD15	Socket, straight, dip solder, .234" x .027" dia
		SAF3	Socket, straight, flex circuit, 050"
		SAF6	Socket, straight, flex circuit, .093"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SOR9	Socket, right angle, dip solder, .140" x .025" dia

	HAF	DWARE	
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JTA	Turning jackset, 160"	JTA	Turning jackset, 160"
JTB	Hex turning jackset, .160"	JTB	Hex turning jackset, 160"
JTL	Long turning jackset, .660"	JTL	Long turning jackset, .660"
SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D01. Call factory for additional codes.
- Termination face sealed against conformal coating
- -D01
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. $^{\LaTeX}$ Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39
- Combine -B82 & -D01 special codes



EXAMPLE: WRD122SOR9J



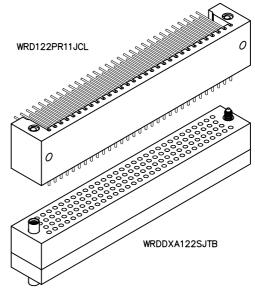
4 · ROW PC Card to

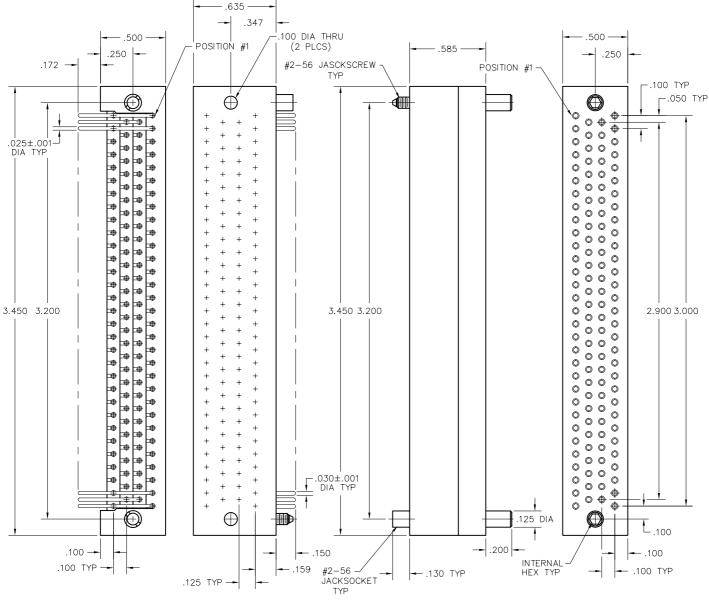
.100"

Cable

WRD - WRDDXA

122 Contacts





RECEPTACLE

PLUG



PLUG: WRD 122 PR11 JCL

RECEPTACLE: WRDDXA 122 S JTB

XXXXX XX XXX XX

PLUG RECEPTACLE SERIES Plug, right angle, without mounting ears WRD WRDDXA Receptacle, straight, crimp removable, without mounting ears WRDDXA mates with WRD and WRDV connectors. "A" means contacts are included. SIZE 122 Number of contacts 122 Number of contacts **CONTACTS** The use of gaskets is not recommended with crimp socket contacts. WRDDXA** includes full complement of WTK2222 (S or PA) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body. TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: PR7 Pin, right angle, dip solder, .109" x .025" dia S Socket, straight, crimp removable, 22 AWG Pin, right angle, dip solder, .140" x .025" dia PR9 SA Same as above PR11 Pin, right angle, dip solder, .172" x .025" dia Р Pin, straight, crimp removable, 22 AWG **HARDWARE JCL** Fixed jackset, cross hole mount SY Guide set SYCL Guide set, cross hole mount SY-# Guide set, polarized SYCL-# Guide set, cross hole mount, polarized SYL Guide set, long JTA Turning jackset, 200"

OPTIONS

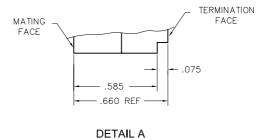
JTB

JTL

Hex turning jackset, 200"

Long turning jackset, 700"

- Option Codes: Add to the end of the part number. Example: WRDDXA122SSY-C45. Call factory for additional codes.
- Socket, straight, crimp removable, 20 AWG
- -C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.





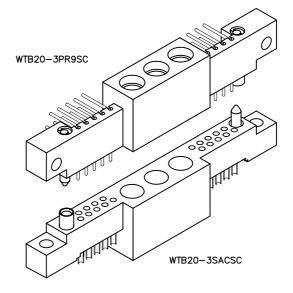
$2 \cdot \mathsf{Row}$

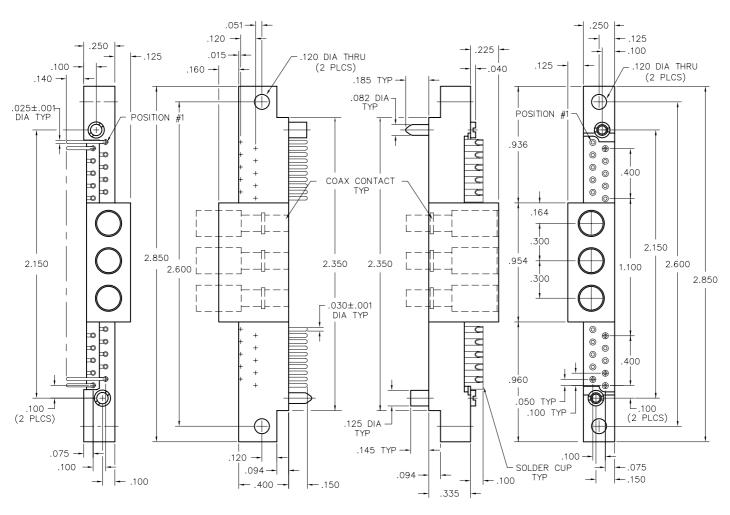
Coax Connectors PC Card to Board or Chassis

.100"

WTB - WTB

20-3 Contacts





PLUG RECEPTACLE



PLUG: WTB 20-3 PR9 SC

RECEPTACLE: WTB 20-3 SAC SC XXXX XXX XX

PLUG	à	RECER	PTACLE	X X X	\ XXXX .
		SERIES			
WTB	Plug, right angle, with mounting ears	WTB	Receptacle, straight, with mounting ears		
		SIZE			
20-3	20 right angle signal pins, plus 3 straight or right angle removable coax sockets	20-3	20 straight signal pins, plus 3 straight removable coax pins		
	C	ONTACTS			
PR7 PR9 PR11	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .025" dia Pin, right angle, dip solder, .140" x .025" dia Pin, right angle, dip solder, .172" x .025" dia	SAC SAD9 SAD11 SAD15 SAG7	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup (.035" I.D.) Socket, straight, dip solder, .140" x .027" dia Socket, straight, dip solder, .172" x .027" dia Socket, straight, dip solder, .234" x .027" dia Socket, straight, dip solder, .109" x .018" dia	_	

HARDWARE

SAG9

Socket, straight, dip solder, .140" x .018" dia SAG11 Socket, straight, dip solder, .172" x .018" dia

SC Guide set Guide set SC-# Guide set, polarized SC-# Guide set, polarized

OPTIONS

- Molded insulator: Diallyl Phathalate per ASTM-D5948 (GDI-30F or SDG-F)
- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
- WTC188P = straight pin (to be installed in receptacle insulator only)

WTC196P = straight pin (to be installed in receptacle insulator only)

WTC085P = straight pin (to be installed in receptacle insulator only)

WTC188S = straight socket (to be installed in plug insulator only)

WTC196S = straight socket (to be installed in plug insulator only)

WTC085S = straight socket (to be installed in plug insulator only) WTC10SRD9 = right angle socket (to be installed in plug insulator only)

- Option Codes: Add to the end of the part number. Example: WTB20-3SAD11SC-C34. Call factory for additional codes.
- -342 Remove mounting ears. (.250" each end)
- Remove .225" standoff so connector is flush to board (receptacle only). -C34
- Solder cups are fixed in an outward orientation, otherwise contacts can rotate. -G69
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -D01
- -P39



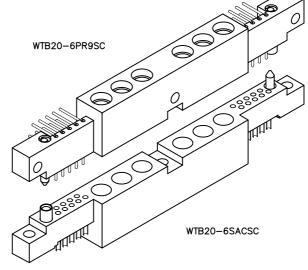
$2 \cdot \mathsf{ROW}$

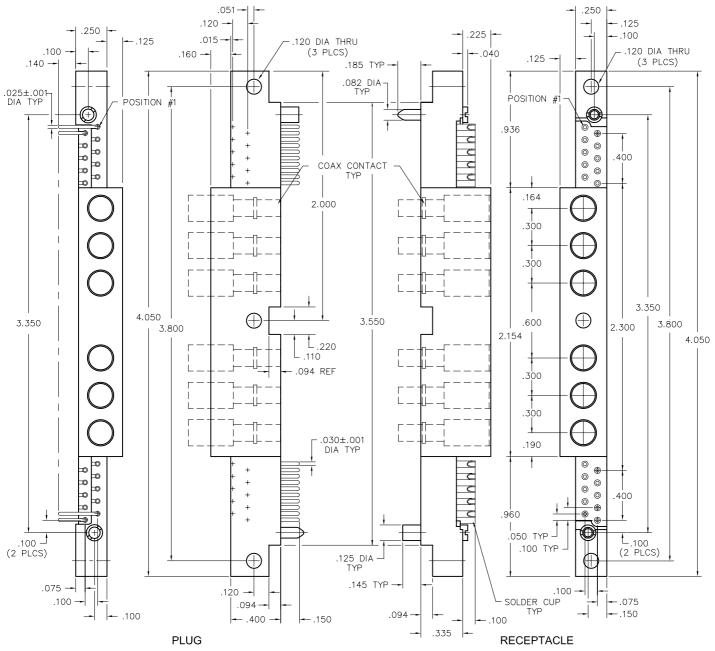
Coax Connectors PC Card to Board or Chassis

.100"

WTB - WTB

20-6 Contacts







PLUG: WTB 20-6 PR9 SC RECEPTACLE: WTB 20-6 SAC SC

XXX XXXX XXX XX **RECEPTACLE**

	SERIES	
WTB Plug, rig	ht angle, with mounting ears WTB Receptacle, straight, with mo	ounting ears
	SIZE	
	angle signal pins, plus 6 straight 20-6 20 straight signal pins, plus 6 angle removable coax sockets 20-6 removable coax pins	straight
	CONTACTS	
PR7 Pin, right PR9 Pin, right	CONTACTS/TERMINATIONS: Int angle, dip solder, .109" x .025" dia angle, dip solder, .140" x .025" dia angle, dip solder, .172" x .025" dia angle, dip solder, .172" x .025" dia angle, dip solder, .172" x .025" dia solder, .172"	(.035" I.D.) .140" x .027" dia .172" x .027" dia .234" x .027" dia .109" x .018" dia .140" x .018" dia
	HARDWARE	
SC Guide so	et SC Guide set et, polarized SC-# Guide set, polarized	

OPTIONS

- Molded insulator: Diallyl Phathalate per ASTM-D5948 (GDI-30F or SDG-F)
- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
- WTC188P = straight pin (to be installed in receptacle insulator only)

WTC196P = straight pin (to be installed in receptacle insulator only) WTC085P = straight pin (to be installed in receptacle insulator only) WTC188S = straight socket (to be installed in plug insulator only)

WTC196S = straight socket (to be installed in plug insulator only) WTC085S = straight socket (to be installed in plug insulator only) WTC10SRD9 = right angle socket (to be installed in plug insulator only)

- Option Codes: Add to the end of the part number. Example: WTB20-6SAD9SC342. Call factory for additional codes.
- Remove mounting ears. (.250" each end) -342
- -C34 Remove .225" standoff so connector is flush to board (receptacle only).
- -G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
- -D01
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39

PLUG



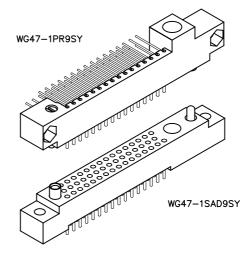
③ · ROW

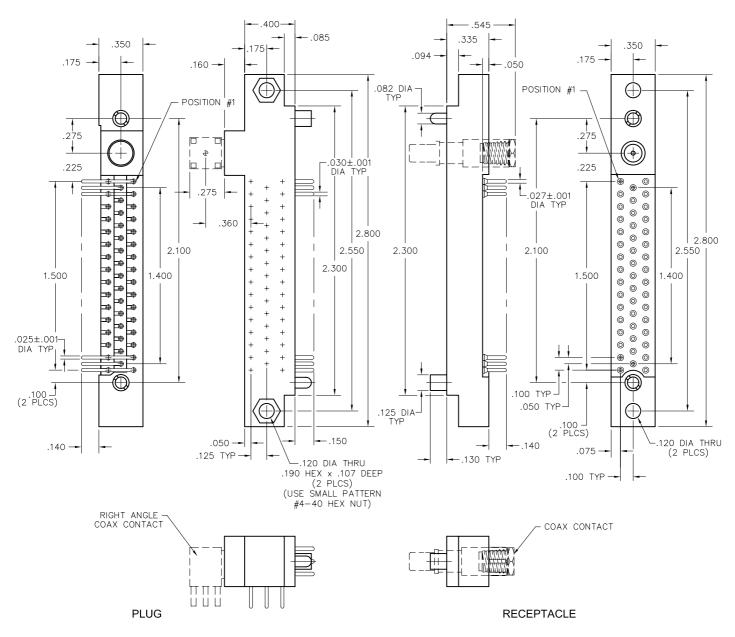
Coax Connectors PC Card to Chassis or Board

.100"

WG - WG

47-1 Contacts







PLUG: WG 47-1 PR11 SY

RECEPTACLE: WG 47-1 SAD9 SY XX 47-1 XXXX XX

PLUG RECEPTACLE

		SERIES		
NG	Plug, right angle, with mounting ears	WG	Receptacle, straight, with mounting ears	
		SIZE		7
	47 right angle signal pins, plus 1 right angle or straight removable coax socket	47-1	47 straight signal pins, plus 1 straight removable coax pin	
	C	CONTACTS		7
PR7 PR9 PR11	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .109" x .025" dia Pin, right angle, dip solder, .140" x .025" dia Pin, right angle, dip solder, .172" x .025" dia	SAC SAD9 SAD11 SAD15 SAG7 SAG9	Socket, straight, dip solder, .109" x .018" dia Socket, straight, dip solder, .140" x .018" dia	

HARDWARE

SY Guide set SY Guide set

SY-# Guide set, polarized SY-# Guide set, polarized

OPTIONS

- Molded insulator (plug only): Diallyl Phathalate per ASTM-D5948 (GDI-30F or SDG-F)
- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions. Coax Contacts: WTC188P = straight pin (to be installed in receptacle insulator only)
- Coax Contacts:

WTC196P = straight pin (to be installed in receptacle insulator only)

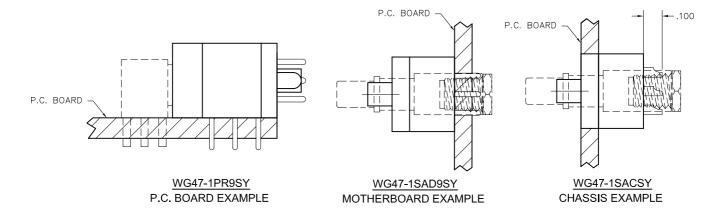
WTC085P = straight pin (to be installed in receptacle insulator only)

WTC188S = straight socket (to be installed in plug insulator only)

WTC196S = straight socket (to be installed in plug insulator only) WTC085S = straight socket (to be installed in plug insulator only)

WTC10SRD9 = right angle socket (to be installed in plug insulator only)

- Option Codes: Add to the end of the part number. Example: WG47-1SACSY-C34. Call factory for additional codes.
- -342 Remove mounting ears. (.250" each end)
- Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only). -548
- -C34 Remove .225" standoff so connector is flush to board (receptacle only).
- -G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
- Pretinned contact terminations (except solder cups, wire wraps ® and flex contacts) with 63/37 or 60/40 solder. 🗵 -D01
- Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC 305 solder (lead free). -P39





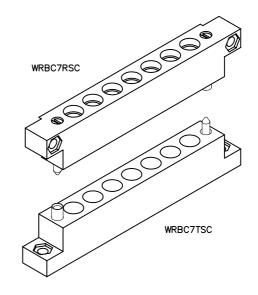
1 ⋅ ROW

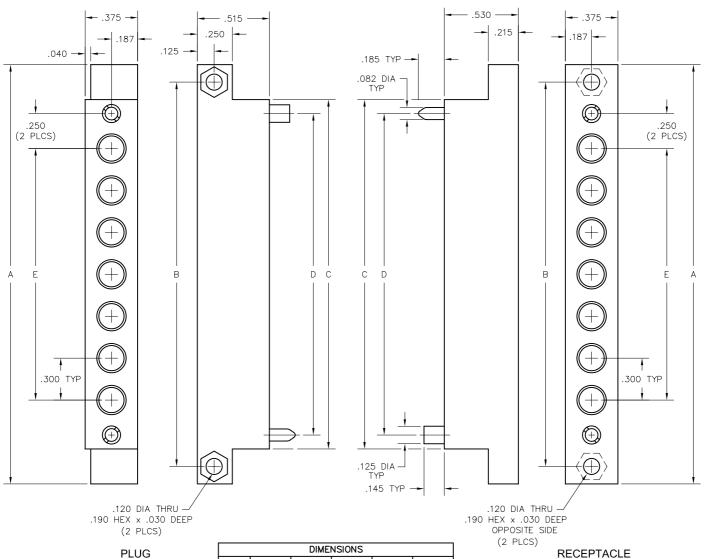
Coax Connectors PC Card to Chassis

.300"

WRBC - WRBC

1, 7 & 11 Contacts





D

2.300

3.500

Ε

1.800

3.000

SIZE

1*

.875

В

.625

2.750

3.950

CONFIGURATION

* = SEE OPPOSITE PAGE FOR 1 POSITION

С

.375

2.500

3.700



PLUG: WRBC 7 R SC RECEPTACLE: WRBC 7 T SC

XXXX XX Χ XX**PLUG RECEPTACLE SERIES** WRBC Plug, right angle, with mounting ears | WRBC Receptacle, straight, with mounting ears **SIZE** XX XXNumber of coax contacts (1, 7 or 11) Number of coax contacts (1, 7 or 11) **CONTACTS** TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: Sockets, straight or right angle, removable coax Т Pins, straight, removable coax contacts R contacts **HARDWARE** SC Guide set SC Guide set SC-# Guide set, polarized SC-# Guide set, polarized

OPTIONS

- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
- Coax Contacts: WTC188P = straight pin (to be installed in receptacle insulator only)

P.C. BOARD EXAMPLE

WTC196P = straight pin (to be installed in receptacle insulator only)

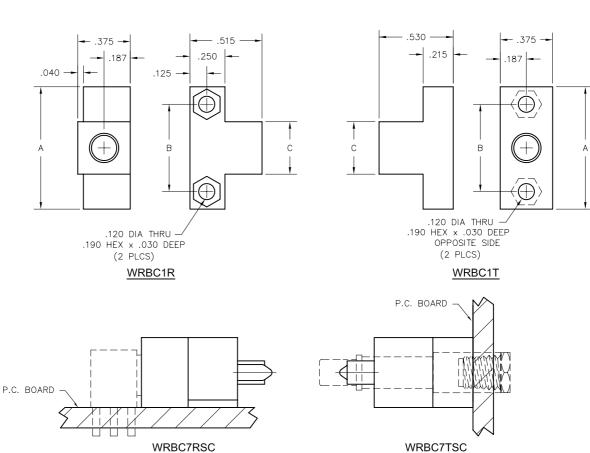
WTC085P = straight pin (to be installed in receptacle insulator only)

WTC188S = straight socket (to be installed in plug insulator only)

WTC196S = straight socket (to be installed in plug insulator only)

WTC085S = straight socket (to be installed in plug insulator only)

WTC10SRD9 = right angle socket (to be installed in plug insulator only)



MOTHERBOARD EXAMPLE



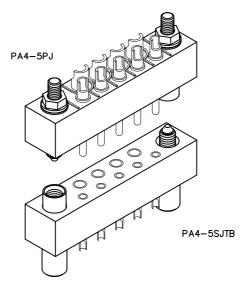
MISC. CONNECTORS

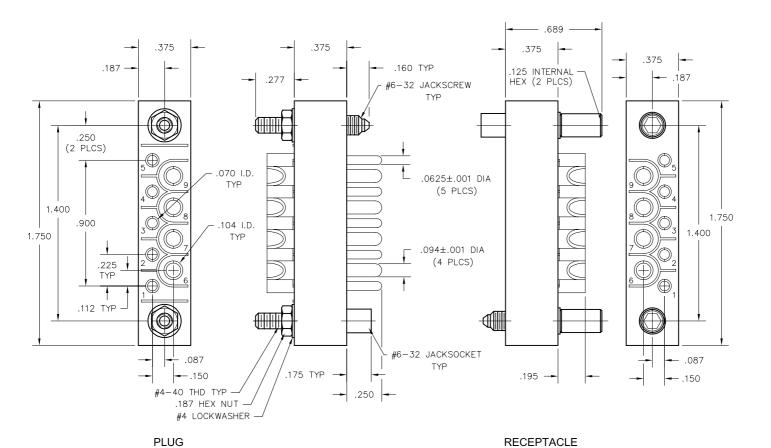
Power Cable to Chassis

.225"

PA - PA

5 & 4-5 Contacts





SEE OPPOSITE PAGE FOR 5 POSITION CONFIGURATION. SEE PAGE W-77 & W-78 FOR 10 POSITION CONFIGURATION.



PLUG: PAJTB RECEPTACLE: PA4-5 XXXXX X XXX

PLUG	RECEPTACLE
------	------------

		SERIES		
PA	Power connectors	PA	Power connectors	
		SIZE		7
5 4-5	5 #12 contacts 4 #12 contacts & 5 #16 contacts	5 4-5	5 #12 contacts 4 #12 contacts & 5 #16 contacts	
		CONTACTS		7
P PD11	TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup Pin, straight, dip solder, .172" x .062" dia	 S SD11	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup Socket, straight, dip solder, .172" x .062" dia	
		HARDWARE		7
SY J JT JTB JTL	Guide set Fixed jackset Turning jackset, 1.054" Hex turning jackset, .314" Long turning jackset, 1.175"	SY J JT JTB JTL	Guide set Fixed jackset Turning jackset, 1.054" Hex turning jackset, .314" Long turning jackset, 1.175"	_

OPTIONS

- Hood (PA5H) for use with PA5 and PA4-5 connectors. Specify JTL hardware when using hood.
- For hood strain relief, add "H" to "JTL" hardware. Example: PA5SJTLH.
- Option Codes: Add to the end of the part number. Example: PA5PD11SY-P39. Call factory for additional codes.
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free).

Molded bodies: Diallyl phthalate per ASTM-D5948 (GDI-30F or SDG-F)

Contact rating: #12 contacts = 23 amps #16 contacts = 13 amps

Contact material: Socket - Beryllium copper, gold plated

Pin - Brass gold plated

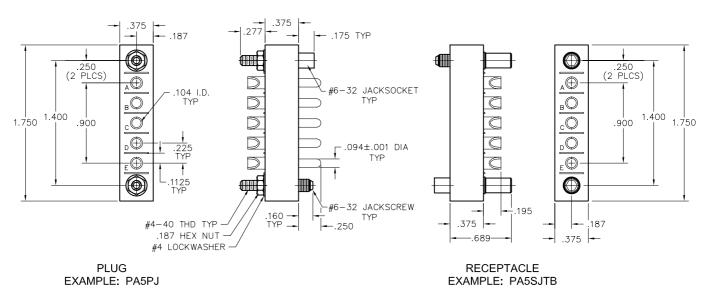
Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces

Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet

Contact resistance: #12 contacts=.023 volt maximum drop @ 23 amps (.001 ohms)

#16 contacts=.023 volt maximum drop @ 13 amps (.002 ohms)

Engagement force: 24 ounces maximum average per contact





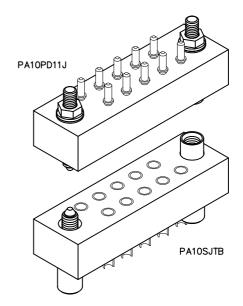
MISC. CONNECTORS

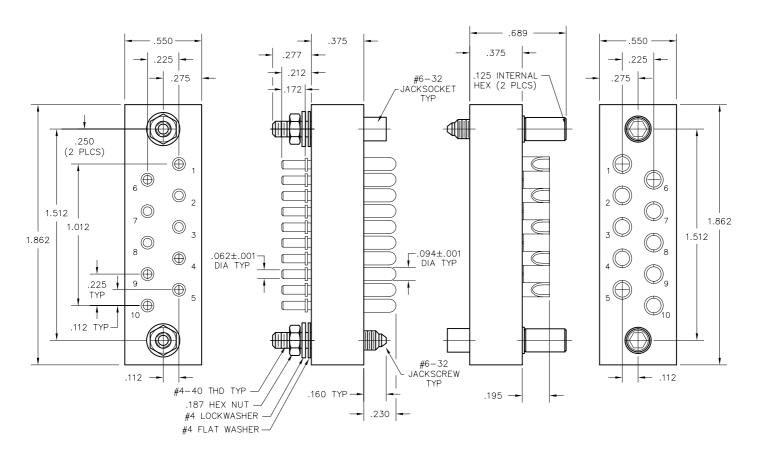
Power Cable to Chassis

.225"

PA - PA

10 Contacts





PLUG RECEPTACLE

SEE OPPOSITE PAGE FOR 10 POSITION RIGHT ANGLE PLUG CONFIGURATION.



PLUG: PA10 S JTB PΑ Ρ RECEPTACLE: 10 XX XX Χ XXX **PLUG RECEPTACLE SERIES** PΑ Power connectors I PA Power connectors SIZE 10 10 10 #12 contacts 10 #12 contacts **CONTACTS** TYPE CONTACTS/TERMINATIONS: TYPE CONTACTS/TERMINATIONS: Р Pin, straight, solder cup Socket, straight, solder cup S PD11 Pin, straight, dip solder, 172" x .062" dia Socket, straight, dip solder, 172" x 062" SD11 Pin, right angle, dip solder, 109" x .082" dia PR7 PR8 Pin, right angle, dip solder, .125" x .082" dia **HARDWARE** SY Guide set SY Guide set Fixed jackset Fixed jackset J Turning jackset, 1.054" (straight plug only) JT Turning jackset, 1.054" JT JTB Hex turning jackset, 314" (straight plug only) JTB Hex turning jackset, .314" Long turning jackset, 1.175" JTL Long turning jackset, 1.175" JTI.

- **OPTIONS** • Option Codes: Add to the end of the part number. Example: PA10PD11SY-P39. Call factory for additional codes.
- -D01
- Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with 63/37 or 60/40 solder. \boxtimes Pretinned contact terminations (except solder cups, wire wraps $^{\circledR}$ and flex contacts) with SAC305 solder (lead free). -P39

NOTES:

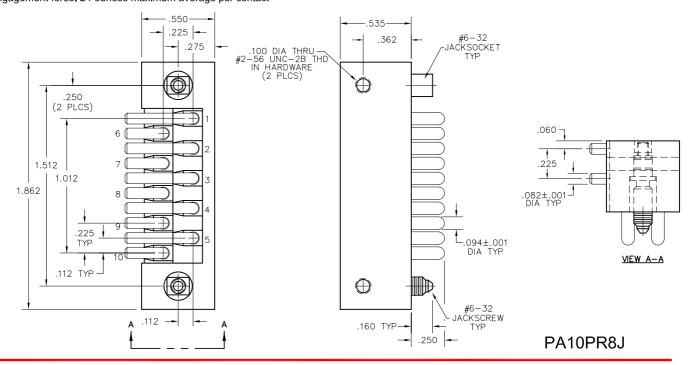
Molded bodies: Polyphenylene sulfide Contact rating: #12 contacts = 23 amps

Contact material: Socket - Beryllium copper, gold plated

Pin - Brass gold plated

Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces

Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet Contact resistance: .023 volt maximum drop @ 23 amps (.001 ohm) Engagement force: 24 ounces maximum average per contact





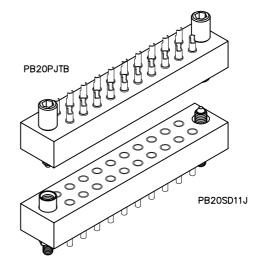
MISC. CONNECTORS

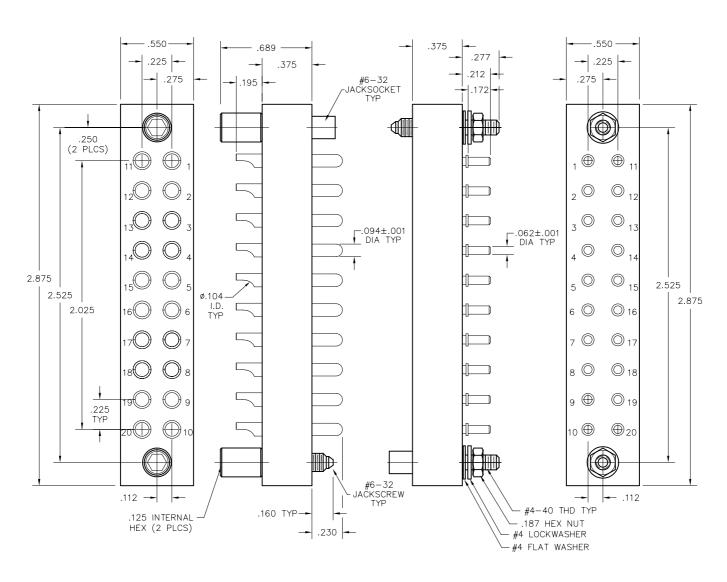
Power Cable to Chassis

.225"

PB - PB

20 Contacts





PLUG RECEPTACLE

SEE OPPOSITE PAGE FOR 20 POSITION RIGHT ANGLE PLUG CONFIGURATION.



PLUG: PΒ 20 S JTB 20 Ρ **RECEPTACLE:** PΒ J

PLUG	ì	RECE	PTACLE)	XX	XX	X	XXX
		SERIES						
РВ	Power connectors	PB	Power connectors					
		SIZE						
20	20 #12 contacts	20	20 #12 contacts					
		CONTACTS						
P PD11 PR7 PR8	TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup Pin, straight, dip solder, .172" x .062" dia Pin, right angle, dip solder, .109" x .082" dia Pin, right angle, dip solder, .125" x .082" dia	S SD11	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup Socket, straight, dip solder, .172" x .062"	_				
		HARDWARE						
SY J JT JTB JTL	Guide set Fixed jackset Turning jackset, 1.054" (straight plug only) Hex turning jackset, .314" (straight plug only) Long turning jackset, 1.175"	SY J JT JTB JTL	Guide set Fixed jackset Turning jackset, 1.054" Hex turning jackset, .314" Long turning jackset, 1.175"					

- **OPTIONS** • Option Codes: Add to the end of the part number. Example: PA5PD11SY-P39. Call factory for additional codes.
- Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder.

 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).

NOTES:

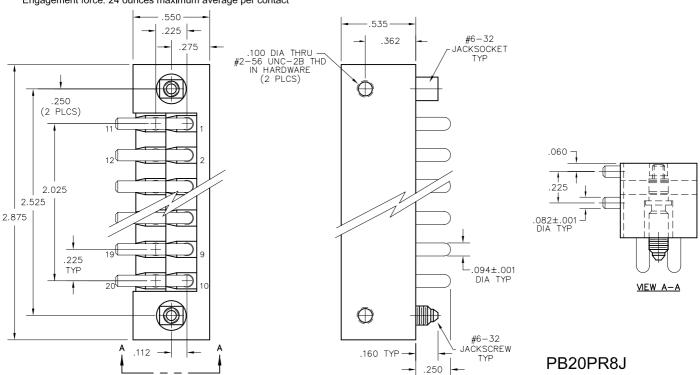
Molded bodies: Polyphenylene sulfide Contact rating: #12 contacts = 23 amps

Contact material: Socket - Beryllium copper, gold plated

Pin - Brass gold plated

Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces

Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet Contact resistance: .023 volt maximum drop @ 23 amps (.001 ohm) Engagement force: 24 ounces maximum average per contact





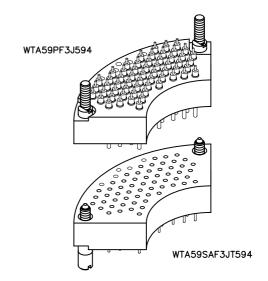
MISC CONNECTORS Quarter Round

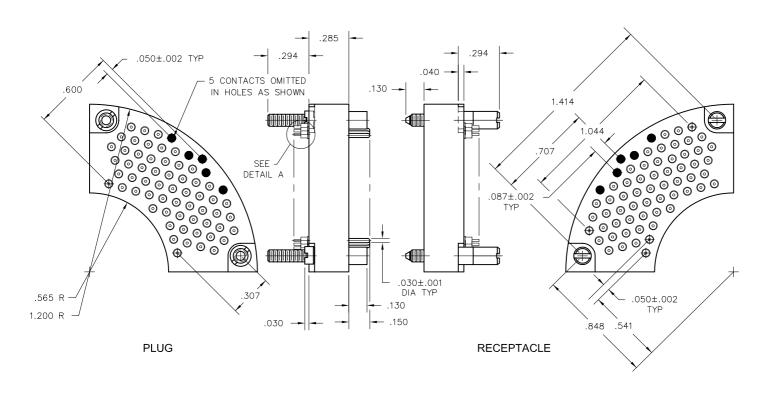
.087" x .050"

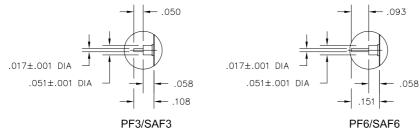
Sandwich Boards

WTA - WTA

59 Contacts







DETAIL A



PLUG: WTA 59 PF3 J594 WTA 59 SAF3 JT594 XXX XX XXXX XXXXX RECEPTACLE:

PLUG	3	RECE	PTACLE	XXX XX	X XXXX XXXX
		SERIES			
WTA	Plug, straight	WTA	Receptacle, straight		
		SIZE		\neg	
59	Number of contacts	59	Number of contacts		
		CONTACTS			
PC PF3 PF6	TYPE CONTACTS/TERMINATIONS: Pin, straight, solder cup (.035" I.D.) Pin, straight, flex circuit, .050" Pin, straight, flex circuit, .093"	SAC SAF3 SAF6	TYPE CONTACTS/TERMINATIONS: Socket, straight, solder cup (.035" I.D.) Socket, straight, flex circuit, .050" Socket, straight, flex circuit, .093"		
		HARDWARE			
J594	Fixed jacksockets	JT594 JTB59	Turning jackscrews, slot head 4 Turning jackscrews, 5/64" internal hex head		

- The connector is loaded with 59 contacts in a 64 position quarter round insulator (-594). Insulator: glass filled nylon per ASTM-D4066.
- Not recommended for use with lead free solder process.
- To order connector without hardware, leave hardware designator out of part number. Example: WTA59SAF3-594.

OPTIONS

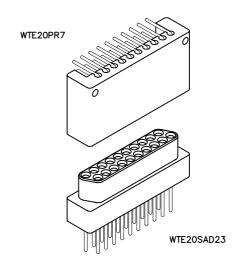


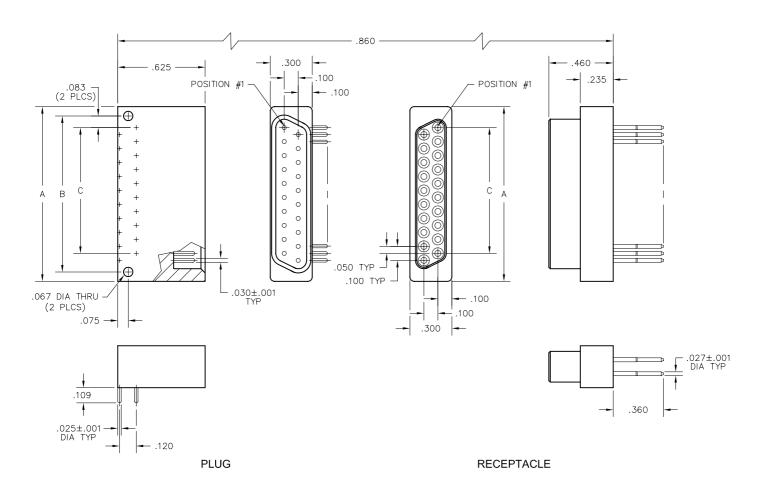
MISC CONNECTORS Pin Protected PC Card to Board

.100"

WTE - WTE

10 & 20 Contacts





DIMENSIONS						
SIZE	Α	В	С			
10	.750	.616	.400			
20	1.250	1.116	.900			

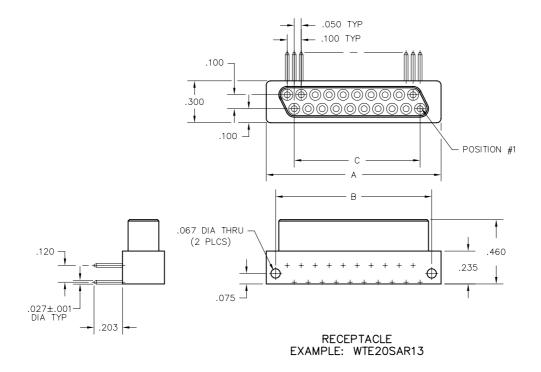


PLUG: WTE 20 PR7
RECEPTACLE: WTE 20 SAD23
XXX XX XXXXX

PLUG	à	RECE	PTACLE	XXX XX XX
		SERIES		
WTE	Plug, right angle (male pins, female shell)	WTE WTE	Receptacle, straight (female pins, male shell) Receptacle, right angle (female pins, male shell)	
		SIZE		
XX	Number of contacts (10 or 20)	xx	Number of contacts (10 or 20)	
		CONTACTS		
PR5 PR7	TYPE CONTACTS/TERMINATIONS: Pin, right angle, dip solder, .081" Pin, right angle, dip solder, .109"	SAD9 SAD23 SAR13	, 3 , 1	_

OPTIONS

- Cannot pre-tin these connectors.
- Insulator: glass filled nylon per ASTM-D4066.
- Not recommended for use with lead free solder process.



ĺ	DIMENSIONS						
	SIZE	A	В	С			
	10	.750	.616	.400			
	20	1.250	1.116	.900			



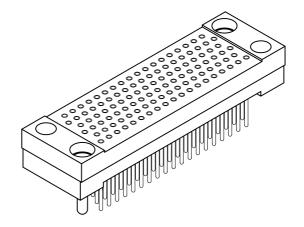
MISC CONNECTORS

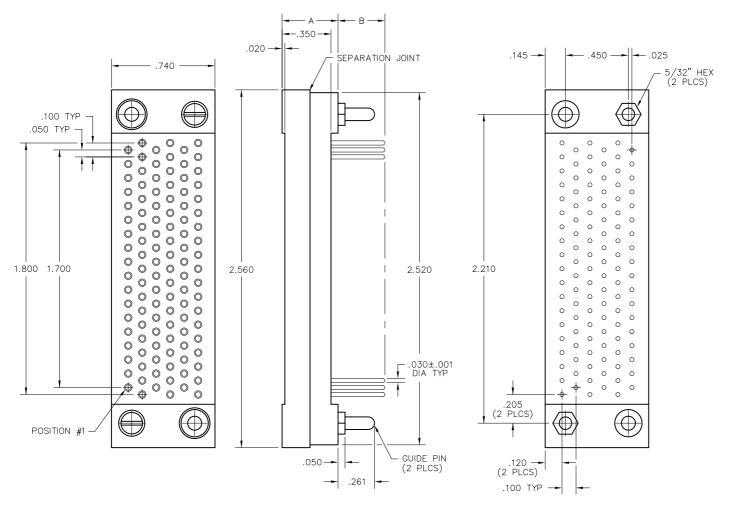
Stackable Board to Board

.100"

WE

111 Contacts



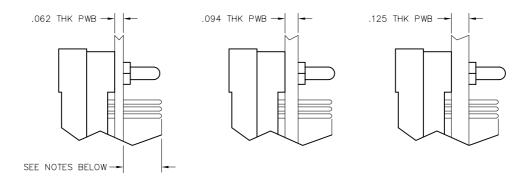


	DIMENSIONS						
STYLE	Α	B±.015	TYPE				
WEA	.400	.335	STACKABLE				
WEB	.450	.130	MOTHER BOARD				
WEB	.450	.335	STACKABLE				
WEC	.495	.335	STACKABLE				



WEA 111 111A SP21 GB XXX XXX XXXX XXXX XXX

		SERIES	1		
WEA	Molding height .400"		1		
WEB	Molding height .450"				
WEC	Molding height .495"				
		SIZE			
111	Number of positions		•		
		LOADING			
111A	Fully loaded		•		
		CONTACTS]		
	TYPE CONTACTS/TERMINATIONS:		-		
SP21	Socket, stackable, .335" termination length				
SP9	Socket, dip solder, .130" termination length				
		HARDWARE]		
GA	Guide set, motherboard				
GB	Guide set, stackable				



Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series. Maximum contact termination length to be .250" beyond PWB.

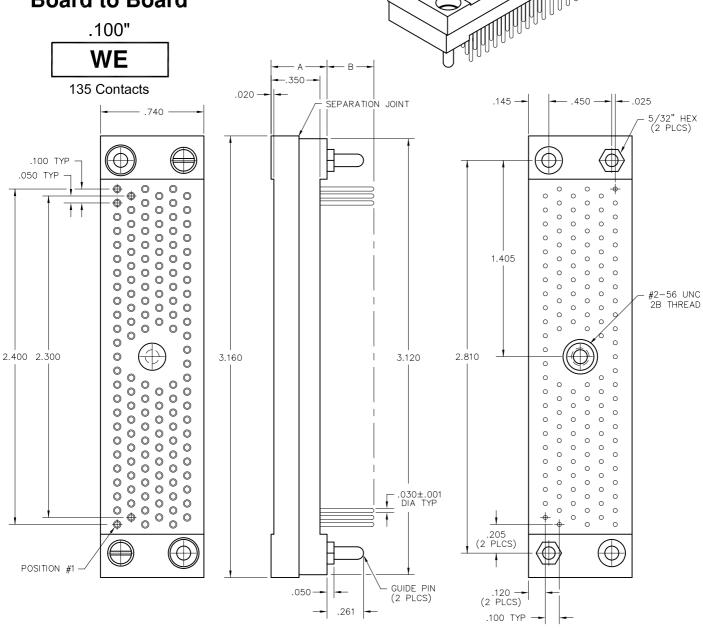
For Mother Board Applications:

Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").



MISC CONNECTORS

Stackable Board to Board

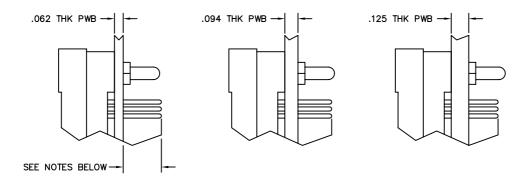


DIMENSIONS						
STYLE	E A B±.015 TYPE		TYPE			
WEA	.465	.335	STACKABLE			
WEA	.465	.130	MOTHER BOARD			
WEB	.500	.335	STACKABLE			
WEB	.500	.130	MOTHER BOARD			
WEC	.740	.335	STACKABLE			
WEC	.740	.130	MOTHER BOARD			



WEA 135 135A SP21 GB

			^^^	^^^	^^^	^^/	\^ ^/
		SERIES	1				
WEA WEB WEC	Molding height .465" Molding height .500" Molding height .740"						
		SIZE					
135	Number of positions						
		LOADING					
135A	Fully loaded						
		CONTACTS]				
SP21 SP9	TYPE CONTACTS/TERMINATIONS: Socket, stackable, .335" termination length Socket, dip solder, .130" termination length						
		HARDWARE]				
GA GB	Guide set, motherboard Guide set, stackable		_				



Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series. Maximum contact termination length to be .250" beyond PWB.

For Mother Board Applications:

Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").



"W" SERIES ACCESSORIES



Contents

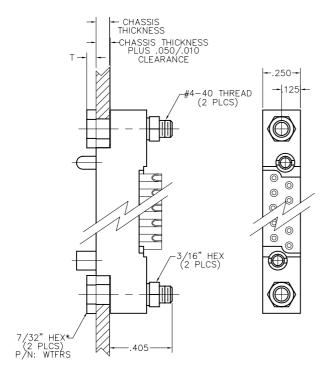
"W" Series

Hardware, Contacts and Accessories

WA-2 WA-4 WA-5 WA-6 WA-7 WA-8 WA-9	Accessories Floating Mounts Face Seal Gaskets for WTA-WTB Series Face Seal Gaskets for WG-WGA-WGE Series Hoods for WTA, WTAX Series Hoods for WTD, WTDX Series Adapter Sleeve, Coax Removal Tool, Extension Nuts Nut Spanner Wrench, Crimp & Removal Tools
WA-10 WA-11	Contacts #22 Pin Contacts, #22 Socket Contacts Crimp Removable Contacts, Coax Contacts
WA-12 WA-14 WA-15 WA-17 WA-18	Hardware Fixed Jacksets, Turning Jacksets Guide Sets Hardware Availability Chart Polarization - "D" Shaped Guide Sets Polarizing Pin Application
WA-19	Military Cross Reference Military Cross Reference Chart



Floating Mounts for WTB-WTK Receptacles



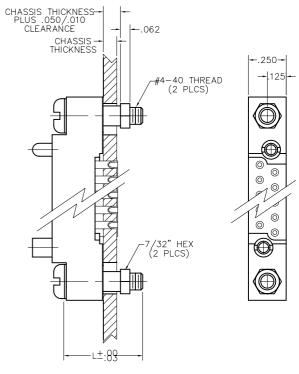
FLOATING MOUNT REAR

DIMENSIONS					
CHASSIS THICKNESS	MOUNTING SCREW HEX HEAD	MOUNTING SCREW ROUND HEAD	Т		
.062	WTFRS062	WTFRAS062	.062		
.093	WTFRS093	WTFRAS093	.062		
.125	WTFRS125	WTFRAS125	.050		

CONNECTOR SIZES 10-70 REQUIRE 2 WTFRS SCREW ASSEMBLIES.

CONNECTOR SIZES OVER 70 REQUIRE 2 WTFRS ASSEMBLIES AND ONE WTFRA SCREW ASSEMBLY.

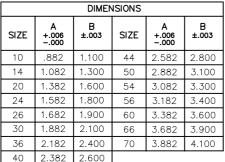
* - 7/32 DIA ROUND HEAD - WTFRAS CENTER POSITION ON SIZES OVER 70

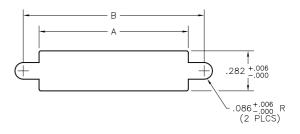


FLOATING MOUNT FRONT

DIMENSIONS				
CHASSIS THICKNESS BUSHING		QTY. REQ. FOR SIZES 10-70	٦	
.062	WTFFS062		.50	
.093	WTFFS093	2	.50	
.125	WTFFS125		.56	

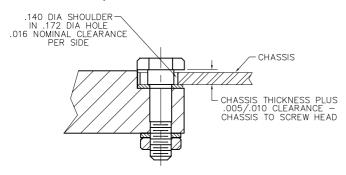
CHASSIS CUTOUT WTB-WTK, SIZES 10-70

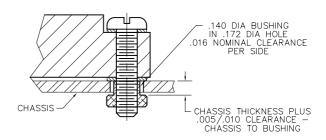




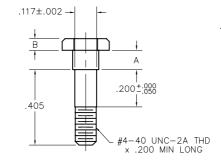


Floating Mounts for WTB-WTK Receptacles





FLOATING STUD, HEX HEAD 7/32±.005 HEX HEAD



.031 x .031 SLOT

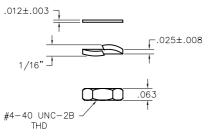
1/16"

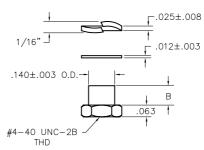
FLOATING STUD,
ROUND HEAD
.212±.007 DIA HEAD

FLAT WASHER .215 O.D. x .120 I.D.

SPLIT LOCKWASHER .212±.015 0.D. × .115 I.D.

HEX NUT 3/16±.005





SPLIT LOCKWASHER .212±.015 O.D. x .115 I.D. FLAT WASHER .215 O.D. x .120 I.D.

FLOATING BUSHING 7/32" HEX

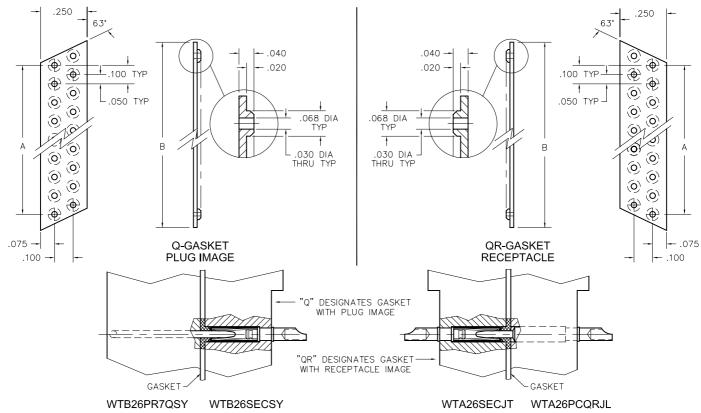
PART NUMBER	A +.000 005	B +.000 005	CHASSIS THICKNESS		
WTFRS062	.073	.062	.062		
WTFRS093	.104	.062	.093		
WTFRS125	.135	.050	.125		

PART NUMBER	A +.000 030	B±.003	CHASSIS THICKNESS
WTFFS040	.439	.051	.040
WTFFS062	.500	.073	.062
WTFFS093	.500	.104	.093
WTFFS125	.562	.135	.125
WTFFS200	.625	.210	.200

PART DESCRIPTION	MATERIAL SPECIFICATION	FINISH SPECIFICATION	WTFRS	WTFRAS	WTFFS
FLOATING STUD 7/32" DIA, ROUND HEAD				X	
FLOATING STUD 7/32" HEX HEAD			X		
FLOATING BUSHING 7/32" HEX HEAD	SST SERIES 300 PER ASTM-A582 AND/OR				Χ
MOUNTING SCREW 7/32" DIA, ROUND HEAD		PASSIVATE PER SAE AMS- QQ-P-35			Χ
#4 LOCKWASHER	QQ-S-763/766	OR ASTM-A967	Χ	Χ	Χ
#4 FLAT WASHER			Χ	Χ	Χ
HEX NUT #4-40			Χ	Χ	



Face Seal Gaskets for WTA-WTB Series



FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WTB90PR	WTB45Q
WTB100PR	WTB50Q
WTB120PR	WTB60Q

NOTES:

- NOTES:

 1. DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY.
 THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN ±.030 FOR
 EACH INCH OF SPACE BETWEEN END HOLES.

 2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A—A—59588.

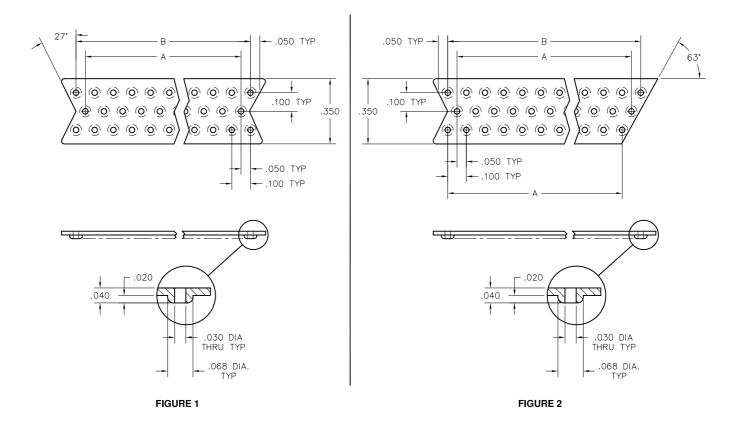
 3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.

 4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WTB26PR7QSY—1.

	CODE CHART													
NO. OF CONTACTS A		В	GASKET CODE (PLUG IMAGE)	FOR USE WITH	GASKET CODE (RCPT IMAGE)	FOR USE WITH								
10	.400	.625	WTB10Q		WTB10QR									
14	.600	.825	WTB14Q		WTB14QR									
20	.900	1.125	WTB20Q		WTB20QR									
24	1.100	1.325	WTB24Q		WTB24QR									
26	1.200	1.425	WTB26Q	WTA-P-JT JTA	WTB26QR	WTA-P-J JL								
30	1.400	1.625	WTB30Q	JTL	WTB30QR									
36	1.700	1.925	WTB36Q	WTAV-P-SY	WTB36QR	WTAX-P-SY SYL								
40	1.900	2.125	WTB40Q	SYL	WTB40QR									
44	2.100	2.325	WTB44Q	WTB-PR-SY	WTB44QR									
50	2.400	2.625	WTB50Q	WTBV-P-SY	WTB50QR									
54	2.600	2.825	WTB54Q		WTB54QR									
56	2.700	2.925	WTB56Q		WTB56QR									
60	2.900	3.125	WTB60Q		WTB60QR									
66	3.200	3.425	WTB66Q		WTB66QR									
70	3.400	3.625	WTB70Q											



Face Seal Gaskets for WG-WGA-WGE Series



NOTES:

WA-5

- DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY. THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN ±.030 FOR EACH INCH OF SPACE BETWEEN END HOLES.
- 2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A-A-59588.
- 3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.
 4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WG80PR7QSY-1.

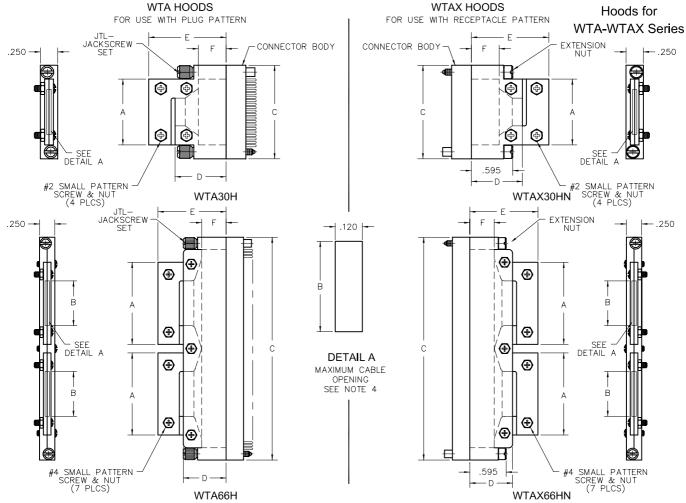
CODE CHART												
NO. OF CONTACTS	Α	В	FIGURE	GASKET CODE	FOR USE WITH							
50	1.500	1.600	1	WG50Q	WC D IT							
80	2.500	2.600	1	WG80Q	WG-P-JT JTA							
92	2.900	3.000	1	WG92Q	JTL							
61	1.900	2.000	2	WG61Q	WGV-P-SY							
52	1.600	1.700	2	WG52Q	SYL							
62	1.900	2.000	1	WG62Q	WG-PR-SY							
70	2.200	2.300	1	WG70Q								

FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WGA122PR	WG61Q
WG104PR	WG52Q
WG160PR	WG80Q

REV C

CTWA025





CODE CHART																	
WTA HOODS, PLUG IMAGE							WTAX HOODS, RECEPTACLE IMAGE						PART NO. DESIGNATION				
PART NO.	А	B +.015 025	С	D	E	F	PART NO.	Α	B +.015 025	С	D	E	F	SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE
WTA20H	.950	.400	1.350														
WTA30H	1.450	.800	1.850				WTAX30H	1.450	.800	1.850				WTA	20 THRU 70	н	JTL - LONG
WTA36H	1.300	.750	2.150				WTAX36H	1.300	.750	2.150							TURNING JACKSCREW
WTA40H	1.500	.950	2.350				WTAX40H	1.500	.950	2.350							SET
WTA44H	1.700	1.150	2.550				WTAX44H	1.700	1.150	2.550							
WTA50H	2.000	1.450	2.850	.700	1.115	.400	WTAX50H	2.000	1.450	2.850	.700	1.115	.400				
WTA54H	2.200	1.650	3.050		i I		WTAX54H	1.950	1.400	3.050				WTAX T	30 THRU	HN	J - FIXED
WTA56H	2.060	1.500	3.150				WTAX56H	2.060	1.500	3.150							JACKSCREW SET
WTA60H	1.240	.700	3.350				WTAX60H	1.240	.700	3.350					70		SY - GUIDE
WTA66H	1.350	.735	3.650				WTAX66H	1.345	.735	3.650					'		SET
WTA70H	1.445	.885	3.850				WTAX70H	1.445	.885	3.850							

- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE.
 HOODS ARE SUPPLIED UNASSEMBLED.
 HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY
 CLAMPING SCREWS AND NUTS: STAINLESS STEEL
 THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM
- CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: ±.015
 SIZES 20-30 USE #2 SMALL PATTERN SCREW & NUT.
 SIZES 36-70 USE #4 SMALL PATTERN SCREW & NUT.
 HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE
- -C45 OPTION CODE

EXAMPLES:

WTA**H = DESIGNATES HOOD USED WITH JTL HARDWARE WTA**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE (INCLUDES EXTENSION NUTS).

WTAHN = DESIGNATES EXTENSION NUTS ONLY.

** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR ADDITIONAL INFORMATION ON EXTENSION NUTS.

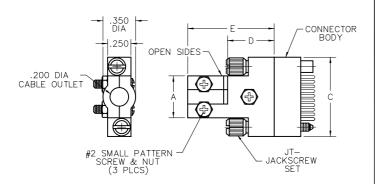


Accessories

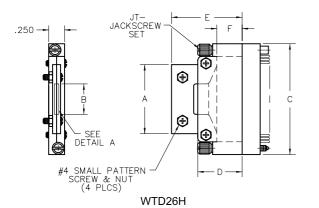
Hoods for WTD-WTDX Series

WTD HOODS

FOR USE WITH PLUG PATTERN

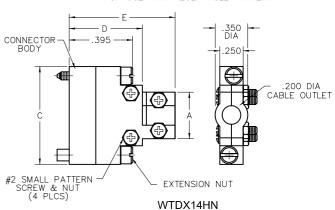


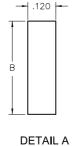
WTD10H



WTDX HOODS

FOR USE WITH RECEPTACLE PATTERN





SEE NOTE 4

MAXIMUM CABLE **OPENING**

	PART NO. DESIGNATION										
SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE								
WTD		I	JT — TURNING JACKSCREW SET								
WTDX	10, 14 & 26	HN	J — FIXED JACKSCREW SET SY — GUIDE SET								

	CODE CHART												
WTD HOODS, PLUG IMAGE				WTDX HOODS, RECEPTACLE IMAGE									
PART NO.	Α	B +.015 025	O	D	Ε	F	PART NO.	A	B +.015 025	C	D	Е	F
WTD10H	.450		.850		.850		WTDX10H	.450		.850		.850	
WTD14H	.500		1.050	.500	.650	.200	WTDX14H	.500		1.050	.500	.650	
WTD26H	1.090	.540	1.650		.915		WTDX26H	1.250	.600	1.650		.915	.200

NOTES:

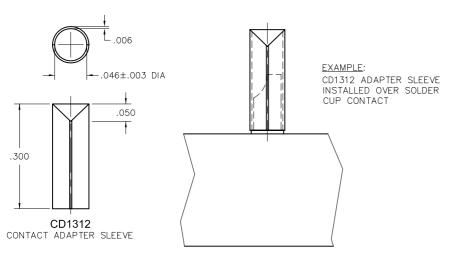
- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE. HOODS ARE SUPPLIED UNASSEMBLED. HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY CLAMPING SCREWS AND NUTS: STAINLESS STEEL
- THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SEE PAGE WA-5 FOR WTA-WTAX SERIES HOODS.
- IF USED WITH WTA OR WTAX CONNECTORS IS DESIRED, LEAD DRESS AREA WILL BE AT A MINIMUM.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: ±.015
- SIZES 10 & 14 USE #2 SMALL PATTERN SCREW & NUT. SIZE 26 USE #4 SMALL PATTERN SCREW & NUT. HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE 10.
- -C45 OPTION CODE.

EXAMPLES:

WTD**H = DESIGNATES HOOD USED WITH JT HARDWARE
WTD**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE
(INCLUDES EXTENSION NUTS).

= DESIGNATES EXTENSION NUTS ONLY.

** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR ADDITIONAL INFORMATION ON EXTENSION NUTS.





Accessories

Adapter Sleeve for Solder Cup Contacts

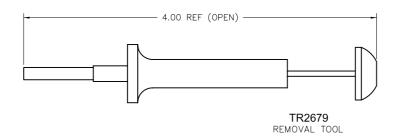
NOTES:

- MATERIAL: BeCu PER ASTM-B194. FINISH: GOLD PLATE PER MIL-G-45204

- CONTACT ADAPTER SLEEVE IS DESIGNED TO ACCEPT #20 WIRE.
 WITH USE OF THE ADAPTER SLEEVE, EFFECTIVE DIAMETER IS EXPANDED TO .050 I.D.
 THE CD1312 WILL ALSO ACCEPT: 3 TWISTED OF #28 WIRE
 2 TWISTED OF #26 WIRE

Accessories

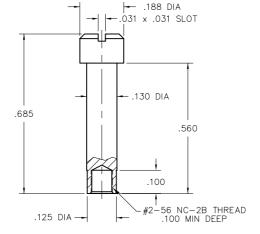
Coax Removal Tool for WTC Contacts





Accessories

Extension Nuts



WTAHN FOR USE WITH WTAH & WTAXH HOODS. SEE PAGE WA-5.

├- .188 DIA .031 x .031 SLOT .485 - 130 DIA .360 .100 #2-56 NC-2B THREAD .125 DIA -

WTDHN FOR USE WITH WTDH & WTDXH HOODS. SEE PAGE WA-6.

NOTES:

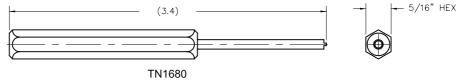
- 1. EXTENSION NUTS ARE NECESSARY FOR HOODS WHEN CONNECTOR INVOLVED HAS FIXED HARDWARE. FOR EXAMPLE: GUIDE SET (SY) OR FIXED JACKSCREW SET (J). TWO EXTENSION NUTS ARE REQUIRED PER HOOD.

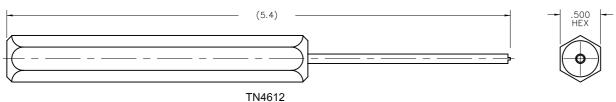
- MATERIAL: STAINLESS STEEL, TYPE 303.
 INSTALLATION: REMOVE NUT FROM HARDWARE ON TERMINATION SIDE OF CONNECTOR USING TN1680, NUT SPANNER WRENCH. INSTALL EXTENSION NUT IN ITS PLACE. FOR INFORMATION ON TN1680 SEE WA-8.



Accessories

Nut Spanner Wrenchs

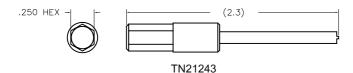




USING EITHER OF THE SPANNER WRENCHES SHOWN ABOVE, GUIDE SETS MAY BE REMOVED AND REPOSITIONED IN ANY OF THE 64 POLARIZING POSITIONS. REFER TO PAGE WA-18 FOR POLARIZATION CHART.

CAUTION: WHEN POLARIZED POSITIONS ARE CHANGED, APPLY LOCTITE 242® TO THREADS.

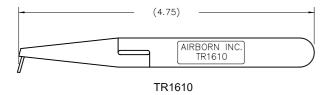
IF SPANNER NUTS ARE DIFFICULT TO REMOVE DUE TO HARDENED LOCTITE $^{\circledR}$, APPLY HEAT (300° F) TO NUT AREA FOR ONE HOUR AND REPEAT REMOVAL OPERATION.

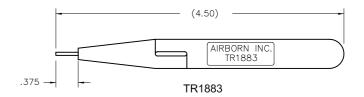


THE 1/4" DRIVE SPANNER WRENCH ABOVE IS DESIGNED FOR USE IN TORQUE WRENCHES

Accessories

Insertion & Removal Tools





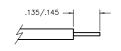
4.50 REF (OPEN) 2.00 REF (CLOSED)

Accessories

Crimp Tools & Positioners

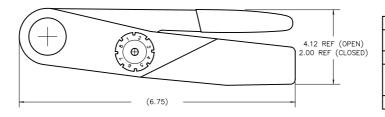
TC2963 - CRIMP TOOL

REF M22520/2-01 TP1696 - POSITIONER REF M22520/2-06 (REF ASTRO TOOL CORP.) (7.50)



INSULATION STRIPPING
EXPOSE .135/.145 BARE WIRE
LENGTH FOR INSERTION INTO
CONTACT.

TC1652 - CRIMP TOOL REF M22520/2-01 TP1653 - POSITIONER REF M22520/2-06 (REF DANIELS MFG. CORP.)

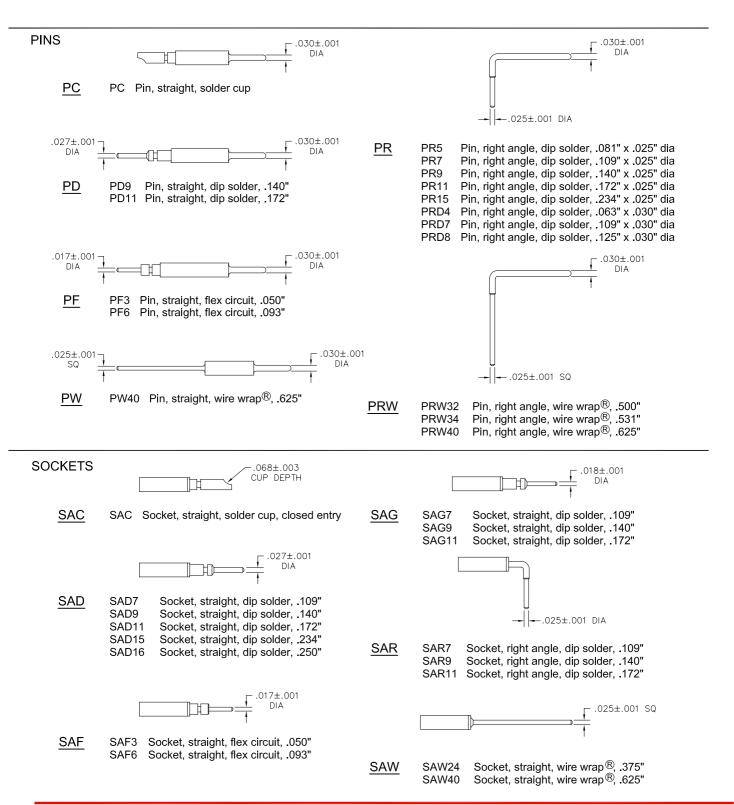


TOOL SELECTION TABLE								
CONTACT	TOOL NO.	POSITIONER						
WTK2222PA		TP1985						
WTK2222S	TC1652 OR TC2963	TP1653 OR TP1696						
WTK2220S657		TP2435						



Contacts

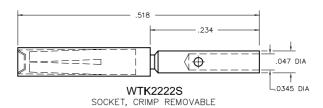
#22 Pins & Sockets for WT, WTA, WTB, WTK, WG & WGA Series



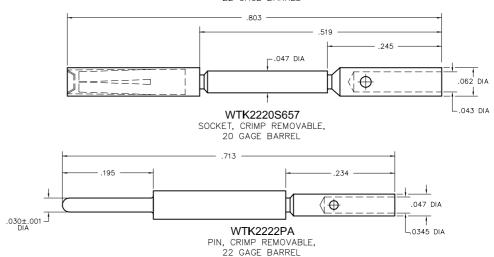


Contacts

Crimp Removable for WTDX, WTDXA, WTK, WTKA Series WGDX, WGDXA, WGK, WGKA Series

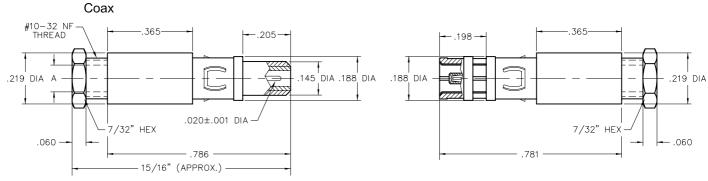


WTK222SA SOCKET, LOW FORCE, CRIMP REMOVABLE, 22 GAGE BARREL



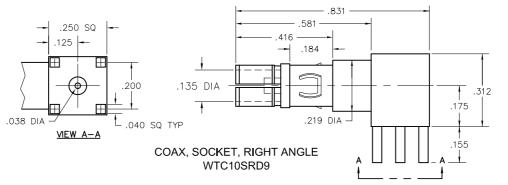
When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

Contacts



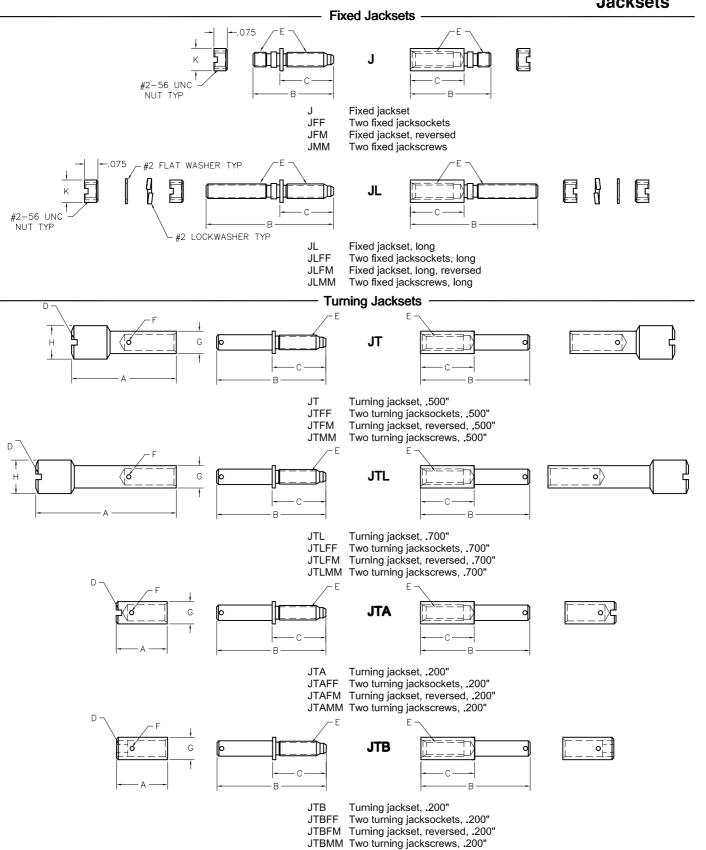
COAX, MALE COAX, FEMALE

PART #	DESCRIPTION	DIA "A"	CABLE TYPE	PART #	DESCRIPTION
WTC188P		.115	RG174, RG188, RG316	WTC188S	
WTC196P	COAX, STRAIGHT, PIN	.089	RG178, RG196	WTC196S COAX, STRAIGHT, SOCH	
WTC085P		.009	SEMI-RIGID, .085-50 OHM	WTC085S	

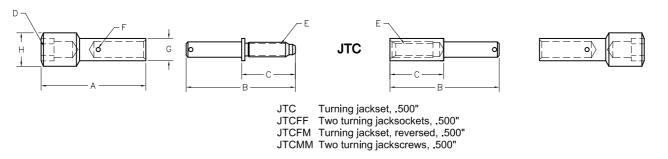




Jacksets

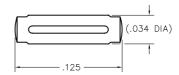






GROOVE PIN

SEE NOTE 1



Notes:

- Groove pin secures knob to jackscrew and jacksocket on turning hardware.
 For nut spanner wrench, refer to Data Sheet on WA-9.

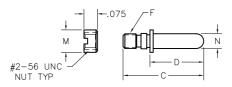
- When installing fixed jacksets, apply Loctite[®] to threads.
 Under normal conditions, jackscrews are at socket contact position #1, and jacksockets are at pin contact position #1.
- 5. Spanner nuts, lockwashers and flat washers shall be supplied separately.

					DIMENSIONS					
HARDWARE TYPE	FOR MOLDING TYPE	А	В	С	D	E	F	G	Н	к
J	WTA, WTB	_	.450		_		_	_	_	.125 DIA
JL	WTA, WTB		.712					_		.125 DIA
JT	WTA, WTB WTDX, WTK	.585	.610 .860		.031 x .031 SLOT				.187 DIA	_
JTA	WTA, WTB WTDX, WTK	.285	.610 .860	.300	.031 x .031 SLOT	#2-56 UNC			.125 DIA	_
JTB	WTA, WTB WTDX, WTK	.285	.610 .860	.000	5/64 INT HEX		.033 DIA	.125 DIA	.125 DIA	_
JTC	WTA, WTB WTDX, WTK	.585	.610 .860		7/64 INT HEX				.187 DIA	_
JTL	WTA, WTB WTDX, WTK	.785	.610 .860		.031 x .031 SLOT				.187 DIA	_

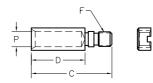


Guide Sets





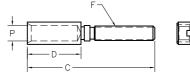
SY



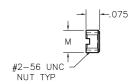
SY Guide set
SYFF Two guide sockets
SYFM Guide set, reversed
SYMM Two guide pins

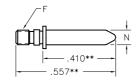


SYL

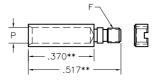


SYL Guide set SYLFF Two guide sockets SYLFM Guide set, reversed SYLMM Two guide pins

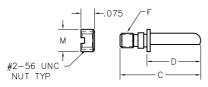




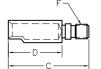
SC



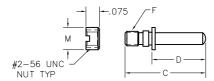
Guide Sets, Polarized



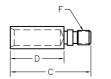
SY-SEE NOTE 1







SY-SEE NOTE 2



Notes:

- For polarized "D" shaped guides, see WA-17. Polarizing also available for SYL- and SC- guide sets. To order, use P/N WTBSY-*, WTBSYL-* or WTBSC-*. See WA-17 for dash number requirement (example WTBSY-33).
- 2. For universal type test connector, see WA-17.
- 3. For nut spanner wrench, refer to Data Sheet on WA-9.
- 4. When installing guide sets, apply Loctite[®] to threads.
- Under normal conditions, jackscrews are at socket contact position #1, and jacksockets are at pin contact position #1.
- 6. Spanner nuts, lockwashers and flat washers shall be supplied separately.

DIMENSIONS									
PART NUMBER	FOR MOLDING TYPE	С	D	F	М	N	Р		
WTBSC	WTB COAX	**	**						
WTBSY	WTA,WTB,WG,WGA	.450		#2-56					
WTBTSY	WTBT	.653	700	UNC	.125 DIA	.082 DIA	.086 DIA		
WTKSY	WTK	.712	.300	THD					
WTBSYL	WTA,WTB,WG	./ 12							



Hardware Availability by Connector Series

WTA / B W	<u>/G - Re</u> c	•									eight = .3	
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTI
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.13
Termn:		.247			.247	.247	.200	.200	.230	.500	.500	.70
WTB / WG	- Plug									-	elght = .4	00
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JT
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.13
Termn:		.182			.182	.182	.135	.135	.165	.435	.435	.63
WGA - Red	ceptacle									Body He	eight = .3	75
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JT
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.13
Termn:		.207			.207	.207	.160	.160	.190	.460	.460	.66
WGA - Plu	g									Body Ho	elght = .4	00
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JT
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.13
Termn:		.182			.182	.182	.135	.135	.165	.435	.435	.63
WGR92 - F	Receptac	:le								Body H	eight = .3	75
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JT
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.13
Termn:		.207			.207	.207	.160	.160	.190	.460	.460	.66
WGR92 - F	Plug				· · · · · · · · · · · · · · · · · · ·					Body He	elght = .3	50
Style:	JCL	SYCL	SYCL-*				JTA	JTB	JT	JTL		
Mating:	.130	.130	.130				.130	.130	.130	.130		
Termn:	.247	.120	.120				.205	.205	.505	.705		
WRD122 -	Recepta	ıcle								Body H	eight = .3	75
Style:	J	JL	SY	SY-	SYL	SYL-*	L-D65	JTA	JTB	JTC	JT	JT
Mating:	.130	.130	.130	.130	.130	.130		.130	.130	.130	.130	13
Termn:		.207			.207	.207	.230	.160	.160	.460	.460	.66
WRD122 -	Plug									Body He	elght = .6	35
Style:	JCL	SYCL	SYCL-*									
Mating:	.130	.130	.010									
Termn:												
WRF100 -	Recepta	de								Body He	eight = .5	34
Style:	J	JL										
Mating:	.130	.130										
Termn:		.250										
WRF100 -	Plug									Body H	eight = .4	
Style:								JTB				JT
Mating:								.130				.13
Termn:								.190				.70
WRTBT - F	Receptac	de									eight = .5	
Style:	J		SY	SY-*			JTA	JTB	JTD	JT	JTC	JT
Mating:	.130		.130	.130			.130	.130	.130	.130	.130	.13
Termn:							.175	.175	.205	.475	.500	.67
PA - Rece _l											elght = .3	75
Style:	SY	J						JTB		JT		
Mating:	.175	.160						.175		.175		
Termn:	.200	.277						.314		1.054		
PA - Plug										Body He	eight = .3	75
Style:	SY	J						JTB		JT		JT
Mating:	.210	.160						.160		.160		.17
Termn:	.273	.277						.314		1.054		1.1



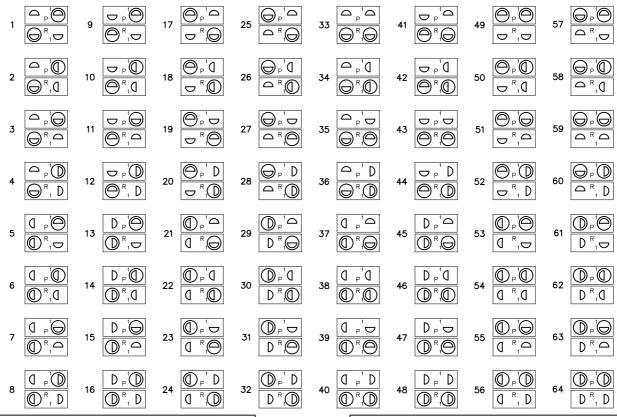
Hardware Availability by Connector Series

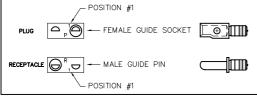
WTK / WT	DX - Plug	or Rece	eptacle							Body H	eight = .5	585
Style:	J	JL	SY	SY-*			JTA	JTB	JTD	JT	JTC	JTL
Mating	.130	.130	.130	.130			.130	.130	.130	.130	.130	.130
Termn:		.247					.200	.200	.230	.500	.500	.700
WTA59		-		-						Body H	elght = .2	285
Style:	J						JTA	JTB				
Mating:	.130						.130	.130				
Termn:							.135	.135				
WRBC - R	eceptacle			•						Body H	eight = .5	530
Style:		SC	SC-*									
Mating:		.145	.145									
Termn:												
WRBC - P	lug									Body H	elght = .5	515
Style:		SC	SC-*									
Mating:		.185	.185									
Termn:												
WTB Coax	c - Recep	tacle	•	•		•			•	Body H	eight = .3	335
Style:	J	JL	SY	SY-*			JTA	JTB		JT		
Mating:	.130	.130	.130	.130			.130	.130		.130		
Termn:		.247					.200	.200		.500		
WTB Coax	c - Plug									Body H	elght = .4	100
Style:	J	SY	SY-*				JTA	JTB		JT		
Mating:	.130	.130	.130				.130	.130		.130		
Termn:							.135	.135		.435		
WTB Coax	c - Recep	tacle wit	h SC har	dware (g	juide soc	ket)				Body H	eight = .3	335
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:			.040	.040								
WTB Coax	c - Plug w	ith SC h	ardware	(gulde pl	ln)					Body H	elght = .4	100
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:												
WTB Coax	c - Recep	tacle wit			juide pin)				Body H	eight = .3	335
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:			.040	.040								
WTB Coax	c - Plug w	ith SC h			ocket)					Body H	elght = .4	100
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:												



Polarization

D-Shaped Guide Sets





For optimum safety, use polarization number 1-6-11-16-17-22-27 or 32 when possible. These positions will exclude entry of guide pins at both ends of connectors when an attempt is made to mate incorrectly.

Select the appropriate two digit number above and include in the hardware code of the part number.

Example:

Plug WTB20PR7SY-1 Receptacle WTB20SECSY-1

To order polarization guide set only, use p/n WTBSY-1. This set consists of one "D-shaped" guide pin, one "D-shaped" guide socket and two spanner nuts (#2-56 UNC thread).

WTBSY-0 is WTBSY-1 except guide set is assembled in connector with the "-1" configuration without applying Loctite. $^{\circledR}$

To change polarization position of guide sets, order spanner nut wrench, part number TN1680 or TN4612. See WA-9.

SERIES	NO. OF CONTACTS	POLARIZED GUIDE SET CODE	POLAR. GUIDE SET ONLY
WTB WG	10 THRU 160	SY-1 (EX. WTB70SACSY-1)	WTBSY-1
WTB COAX TYPE	20-3, 20-6	SC-1 (EX. WTB20-6SACSC-1)	WTBSC-1
WTK	10 THRU 70	SY-1 (EX. WTKA70SSY-1)	WTKSY-1

UNIVERSAL TEST CONNECTORS

The following test guide sets are designed to mate with any of several connectors having different polarization positions. Note that the square quide pin in test connector will enter the D-shaped socket in any of the four positions in which it may be installed. Likewise, the round guide socket in test connector will fit the D-shaped pin in any position.

-65		For positions -1 thru -16
-66	O , ' .	For positions -17 thru -32
-67P -67R	□ _p '□ O ^R ,O	For positions -33 thru -48
-68P -68R	O , O	For positions -49 thru -64

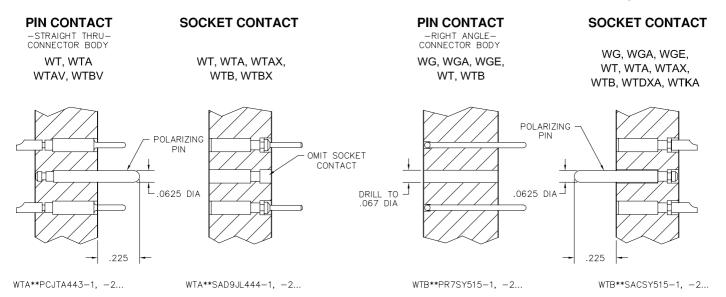
When ordering -67 or -68 guide sets only, P (plug) or R (receptacle) must be noted. Ex: WTBSY-67R. Not required if guides are assembled in the connector. Ex: WTB70SACSY-67.

WTBSY-65, WTBSC-65 & WTKSY-65 is Universal Guide Set only, consisting of: one square guide pin one round guide socket two spanner nuts (#2-56 thd)



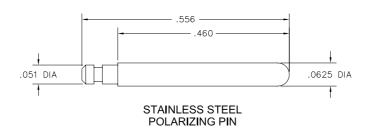
Polarization

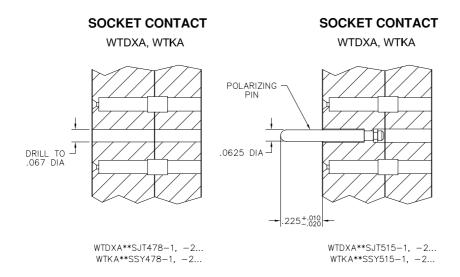
Polarizing Pin Applications



Notes:

- 1. CODE 443 Polarizing pin installed in contact position noted by dash number.
- 2. CODE 444 Contact position noted by dash number is left open.
- 3. Either pin or socket contacts can be used with 443 or 444.
- 4. ** = connector size
- 5. For additional dimensions and other information, refer to catalog data sheet of specific connector.







MIL-C-55302/55 thru MIL-C-55302/57 Cross Reference Chart

1	lumber of Contacts: 40, 44, 50, 54, 56, 60, 66 or 70		umber of Contacts: 10, 44, 50, 54, 56, 60, 66 or 70
	ndard Insertion Force Contacts - or - w Insertion Force Contacts	MIL-C-55302/57	
MIL Number	W Series	MIL Number	W Series
/55-A##L /55-A##M /55-A##S /55-A##H	WTA##SACJTL WTA##SACJT WTA##SACJTA WTA##SACJTB	/57A##X /57A##Y /57A##Y-2 thru -64 /57A##Y-0 /57A##S /57A##H	WTB##PR7SY WTB##PR7SY-1 WTB##PR7SY-2 thru -64 WTB##PR7SY-0 WTB##PR7JTA WTB##PR7JTB
/55-B##L /55-B##M /55-B##S /55-B##H	WTA##SAD9JTL WTA##SAD9JT WTA##SAD9JTA WTA##SAD9JTB	/57B##X /57B##Y /57B##Y-2 thru -64	WTB##PR9SY WTB##PR9SY-1 WTB##PR9SY-2 thru -64
/55-C##L /55-C##M /55-C##S /55-C##H	WTA##SAD11JTL WTA##SAD11JT WTA##SAD11JTA WTA##SAD11JTB	/57B##Y-0 /57B##S /57B##H	WTB##PR9SY-0 WTB##PR9JTA WTB##PR9JTB
/55-D##L /55-D##M /55-D##S /55-D##H	WTA##SAF3JTL WTA##SAF3JT WTA##SAF3JTA WTA##SAF3JTB	/57C##X /57C##Y /57C##Y-2 thru -64 /57C##Y-0 /57C##S /57C##H	WTB##PR11SY WTB##PR11SY-1 WTB##PR11SY-2 thru -64 WTB##PR11SY-0 WTB##PR11JTA WTB##PR11JTB
/55-E##L /55-E##M /55-E##S /55-E##H	WTA##SAD15JTL WTA##SAD15JT WTA##SAD15JTA WTA##SAD15JTB	/57-01	TN1680 Spanner Nut Wrench
/55-F##L /55-F##M /55-F##S /55-F##H	WTA##SAF6JTL WTA##SAF6JT WTA##SAF6JTA WTA##SAF6JTB		
MIL-C-55302/56		+	
/56A## /56B## /56C## /56D## /56E## /56F##	WTA##PCJL WTA##PD9JL WTA##PD11JL WTA##PW40JL WTA##PF3JL WTA##PF6JL		



	umber of Contacts: 40, 44, 50, 54, 56, 60, 66 or 70		umber of Contacts: 40, 44, 50, 54, 56, 60, 66 or 70
MIL-C-55302/58 - Stan	dard Insertion Force Contacts - or - v Insertion Force Contacts	MIL-C-55302/58	- 0, -4 , 30, 34, 30, 60, 60 01 70
MIL Number	W Series	MIL Number	W Series
/58-A##X /58-A##Y /58-A##Y-2 thru -64 /58-A##Y-0 /58-A##F /58-A##S /58-A##H	WTB##SACSY WTB##SACSY-1 WTB##SACSY-2 thru -64 WTB##SACSY-0 WTB##SACJ WTB##SACJTA WTB##SACJTB	/58-H##X /58-H##Y /58-H##Y-2 thru -64 /58-H##Y-0 /58-H##F /58-H##S /58-H##H	WTB##SAF6SY WTB##SAF6SY-1 WTB##SAF6SY-2 thru -64 WTB##SAF6SY-0 WTB##SAF6J WTB##SAF6JTA WTB##SAF6JTB
/58-B##X	WTB##SAD9SY	/59 ### Indicates Numb 90, 100 or 120	per of Contacts:
/58-B##Y /58-B##Y-2 thru -64 /58-B##Y-0 /58-B##F /58-B##S /58-B##H	WTB##SAD9SY-1 WTB##SAD9SY-2 thru -64 WTB##SAD9SY-0 WTB##SAD9J WTB##SAD9JTA WTB##SAD9JTB	/59A###X /59A###Y /59A###Y-2 thru -64 /59A###Y-0 /59A###F /59A###S /59A###H	WTB###PR7SY WTB###PR7SY-1 WTB###PR7SY-2 thru -64 WTB###PR7SY-0 WTB###PR7J WTB###PR7JTA WTB###PR7JTB
/58-C##X /58-C##Y /58-C##Y-2 thru -64 /58-C##Y-0 /58-C##F /58-C##S /58-C##H	WTB##SAD11SY WTB##SAD11SY-1 WTB##SAD11SY-2 thru -64 WTB##SAD11SY-0 WTB##SAD11J WTB##SAD11JTA WTB##SAD11JTB	/59B###X /59B###Y /59B###Y-2 thru -64 /59B###Y-0 /59B###F /59B###S /59B###H	WTB###PR9SY WTB###PR9SY-1 WTB###PR9SY-2 thru -64 WTB###PR9SY-0 WTB###PR9J WTB###PR9JTA WTB###PR9JTB
/58-D##X /58-D##Y /58-D##Y-2 thru -64 /58-D##Y-0 /58-D##F /58-D##S /58-D##H	WTB##SAW40SY WTB##SAW40SY-1 WTB##SAW40SY-2 thru -64 WTB##SAW40SY-0 WTB##SAW40J WTB##SAW40JTA WTB##SAW40JTB	/59C###X /59C###Y /59C###Y-2 thru -64 /59C###Y-0 /59C###F /59C###S /59C###H	WTB###PR11SY WTB###PR11SY-1 WTB###PR11SY-2 thru -6 WTB###PR11SY-0 WTB###PR11J WTB###PR11JTA WTB###PR11JTB
/58-E##X /58-E##Y /58-E##Y-2 thru -64 /58-E##Y-0 /58-E##F /58-E##S /58-E##H	WTB##SAF3SY WTB##SAF3SY-1 WTB##SAF3SY-2 thru -64 WTB##SAF3SY-0 WTB##SAF3J WTB##SAF3JTA WTB##SAF3JTB		
/58-F##X /58-F##Y /58-F##Y-2 thru -64 /58-F##Y-0 /58-F##F /58-F##S /58-F##H	WTB##SAD15SY WTB##SAD15SY-1 WTB##SAD15SY-2 thru -64 WTB##SAD15SY-0 WTB##SAD15J WTB##SAD15JTA WTB##SAD15JTB		



	## Indicates Number of Contacts: 90, 100 or 120		Number of Contacts: , 40, 44, 50, 54, 56, 60, 66 or 70			
MIL-C-55302/60 - Stan	MIL-C-55302/60 - Standard Insertion Force Contacts - or - MIL-C-55302/60L - Low Insertion Force Contacts					
MIL Number	W Series	MIL Number W Series				
/60-A###X	WTB###SACSY	/62-A##L	WTAX##SACJTL			
/60-A###Y /60-A###Y-2 thru -64 /60-A###Y-0 /60-A###F /60-A###S	WTB###SACSY-1 WTB###SACSY-2 thru -64 WTB###SACSY-0 WTB###SACJ WTB###SACJTA	/62-A##M /62-A##S /62-A##H	WTAX##SACJT WTAX##SACJTA WTAX##SACJTB			
/60-A###H	WTB###SACJTB	/62-B##L /62-B##M /62-B##S	WTAX##SAD9JTL WTAX##SAD9JT WTAX##SAD9JTA			
/60-B###X /60-B###Y /60-B###Y-2 thru -64	WTB###\$AD9\$Y WTB###\$AD9\$Y-1 WTB###\$AD9\$Y-2 thru -64	/62-B##H	WTAX##SAD9JTB			
/60-B###Y-0 /60-B###F	WTB###SAD9SY-0 WTB###SAD9J	/62-C##L /62-C##M	WTAX##SAD11JTL WTAX##SAD11JT			
/60-B###S /60-B###H	WTB###SAD9JTA WTB###SAD9JTB	/62-C##S /62-C##H	WTAX##SAD11JTA WTAX##SAD11JTB			
/60-C###X /60-C###Y	WTB###SAD11SY WTB###SAD11SY-1	/62-D##L /62-D##M	WTAX##SAF3JTL WTAX##SAF3JT			
/60-C###Y-2 thru -64 /60-C###Y-0 /60-C###F /60-C###S	WTB###SAD11SY-2 thru -64 WTB###SAD11SY-0 WTB###SAD11J WTB###SAD11JTA	/62-D##S /62-D##H	WTAX##SAF3JTA WTAX##SAF3JTB			
/60-C###H	WTB###SAD11JTB	/62-E##L /62-E##M /62-E##S	WTAX##SAD15JTL WTAX##SAD15JT WTAX##SAD15JTA			
/60-D###X /60-D###Y /60-D###Y-2 thru -64	WTB###SAW40SY WTB###SAW40SY-1 WTB###SAW40SY-2 thru -64	/62-E##H	WTAX##SAD15JTB			
/60-D###Y-0 /60-D###F	WTB###SAW40SY-0 WTB###SAW40J	/62-F##L /62-F##M	WTAX##SAF6JTL WTAX##SAF6JT			
/60-D###S /60-D###H	WTB###SAW40JTA WTB###SAW40JTB	/62-F##N /62-F##S /62-F##H	WTAX##SAF6JTA WTAX##SAF6JTB			
/60-E###X	WTB###SAD15SY	MIL-C-55302/63				
/60-E###Y /60-E###Y-2 thru -64 /60-E###Y-0	WTB###\$AD15\$Y-1 WTB###\$AD15\$Y-2 thru -64 WTB###\$AD15\$Y-0	/63A##L /63A##M	WTA##PCJTL WTA##PCJT			
/60-E###F /60-E###S	WTB###SAD15J WTB###SAD15JTA	/63A##S /63A##H	WTA##PCJTA WTA##PCJTB			
/60-E###H ## Indicates N	WTB###SAD15JTB umber of Contacts:	/63A##F /63A##X /63A##Y	WTAV##PCJL WTAV##PCSYL WTAV##PCSYL-1			
10, 14, 20, 24, 26, 30, 36, MIL-C-55302/61	40, 44, 50, 54, 56, 60, 66 or 70	/63A##Y /63A##Y-2 thru -64 /63A##Y-0	WTAV##PCSYL-1 WTAV##PCSYL-2 thru -64 WTAV##PCSYL-0			
/61A## /61B##	WTB##PR7J WTB##PR9J	, , , , , , , , , ,				
/61C##	WTB##PR11J					



## Indicates Number of Contacts: 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70			Number of Contacts: 5, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/63	, 40, 44, 50, 54, 56, 60, 66 01 70	MIL-C-55302/64 - Standard Insertion Force Contacts or - MIL-C-55302/64L - Low Insertion Force Contacts		
MIL Number	M Corios			
/63B##L /63B##M /63B##S /63B##H /63B##F	W Series WTA##PD9JTL WTA##PD9JT WTA##PD9JTA WTA##PD9JTB WTAV##PD9JL	MIL Number /64-A##F /64-A##X /64-A##Y /64-A##Y-2 thru -64 /64-A##Y-0	W Series WTA##\$ACJL WTAX##\$AC\$YL WTAX##\$AC\$YL-1 WTAX##\$AC\$YL-2 thru -64 WTAX##\$AC\$YL-0	
/63B##X /63B##Y /63B##Y-2 thru -64 /63B##Y-0	WTAV##PD9SYL WTAV##PD9SYL-1 WTAV##PD9SYL-2 thru -64 WTAV##PD9SYL-0	/64-B##F /64-B##X /64-B##Y /64-B##Y-2 thru -64 /64-B##Y-0	WTA##SAD9JL WTAX##SAD9SYL WTAX##SAD9SYL-1 WTAX##SAD9SYL-2 thru -64 WTAX##SAD9SYL-0	
/63C##L /63C##M /63C##S /63C##H /63C##F	WTA##PD11JTL WTA##PD11JT WTA##PD11JTA WTA##PD11JTB WTAV##PD11JL	/64-C##F /64-C##X /64-C##Y /64-C##Y-2 thru -64 /64-C##Y-0	WTA##SAD11JL WTAX##SAD11SYL WTAX##SAD11SYL-1 WTAX##SAD11SYL-2 thru -1 WTAX##SAD11SYL-0	
/63C##X /63C##Y /63C##Y-2 thru -64 /63C##Y-0	WTAV##PD11SYL WTAV##PD11SYL-1 WTAV##PD11SYL-2 thru -64 WTAV##PD11SYL-0	/64-D##F /64-D##X /64-D##Y /64-D##Y-2 thru -64 /64-D##Y-0	WTA##SAW40JL WTAX##SAW40SYL WTAX##SAW40SYL-1 WTAX##SAW40SYL-2 thru - WTAX##SAW40SYL-0	
/63D##L /63D##M /63D##S /63D##H /63D##F	WTA##PF3JTL WTA##PF3JT WTA##PF3JTA WTA##PF3JTB WTAV##PF3JL	/64-E##F /64-E##X /64-E##Y /64-E##Y-2 thru -64 /64-E##Y-0	WTA##SAF3JL WTAX##SAF3SYL WTAX##SAF3SYL-1 WTAX##SAF3SYL-2 thru -64 WTAX##SAF3SYL-0	
/63D##X /63D##Y /63D##Y-2 thru -64 /63D##Y-0	WTAV##PF3SYL WTAV##PF3SYL-1 WTAV##PF3SYL-2 thru -64 WTAV##PF3SYL-0	/64-F##F /64-F##X /64-F##Y /64-F##Y-2 thru -64	WTA##SAF6JL WTAX##SAF6SYL WTAX##SAF6SYL-1 WTAX##SAF6SYL-2 thru -64	
/63E##L /63E##M /63E##S /63E##H /63E##F	WTA##PF6JTL WTA##PF6JT WTA##PF6JTA WTA##PF6JTB WTAV##PF6JL	/64-F##Y-0	WTAX##SAF6SYL-0	
/63E##X /63E##Y /63E##Y-2 thru -64 /63E##Y-0	WTAV##PF6SYL WTAV##PF6SYL-1 WTAV##PF6SYL-2 thru -64 WTAV##PF6SYL-0			



	Number of Contacts: 6, 40, 44, 50, 54, 56, 60, 66 or 70	Numbe	r of Contacts: 160
MIL-C-55302/65 and /66	MIL-C-55302/65 and /66 - Standard Insertion Force Contacts - or - MIL-C-55302/65L and /66L - Low Insertion Force Contacts		
MIL Number	W Series	MIL Number	W Series
/65-##X /65-##Y /65-##Y-2 thru -64 /65-##Y-0 /65-##F /65-##S /65-##H	WTKA##SASY WTKA##SASY-1 WTKA##SASY-2 thru -64 WTKA##SASY-0 WTKA##SAJ WTKA##SAJTA WTKA##SAJTB	/139B160X /139B160Y /139B160Y-2 thru -64 /139B160Y-0 /139B160F /139B160S /139B160H	WG160SAD7SY WG160SAD7SY-1 WG160SAD7SY-2 thru -64 WG160SAD7SY-0 WG160SAD7J WG160SAD7JTA WG160SAD7JTB
/65-01 Crimp Contact WTK2222S /65-02 Crimp Contact WTK2222SA Low Force Socket /66-##L WTDXA##SAJTL /66-##M WTDXA##SAJT /66-##F WTDXA##SAJ /66-##H WTDXA##SAJTB		/139C160X /139C160Y /139C160Y-2 thru -64 /139C160Y-0 /139C160F /139C160S /139C160H	WG160SAD9SY WG160SAD9SY-1 WG160SAD9SY-2 thru -64 WG160SAD9SY-0 WG160SAD9J WG160SAD9JTA WG160SAD9JTB
MIL-C-55302/138	Number of Contacts: 160		
/138A160X /138A160Y /138A160Y-2 thru -64 /138A160Y-0 /138A160F /138A160S /138A160H	WG160PR7SY WG160PR7SY-1 WG160PR7SY-2 thru -64 WG160PR7SY-0 WG160PR7J WG160PR7JTA WG160PR7JTB	/139D160X /139D160Y /139D160Y-2 thru -64 /139D160Y-0 /139D160F /139D160S /139D160H	WG160SAW40SY WG160SAW40SY-1 WG160SAW40SY-2 thru -64 WG160SAW40SY-0 WG160SAW40J WG160SAW40JTA WG160SAW40JTB
/138B160X /138B160Y /138B160Y-2 thru -64 /138B160Y-0 /138B160F /138B160S /138B160H	WG160PR9SY WG160PR9SY-1 WG160PR9SY-2 thru -64 WG160PR9SY-0 WG160PR9J WG160PR9JTA WG160PR9JTB	/139E160X /139E160Y /139E160Y-2 thru -64 /139E160Y-0 /139E160F /139E160H	WG160SAD11SY WG160SAD11SY-1 WG160SAD11SY-2 thru -64 WG160SAD11SY-0 WG160SAD11J WG160SAD11JTA WG160SAD11JTB
/138C160X /138C160Y /138C160Y-2 thru -64 /138C160Y-0 /138C160F /138C160S /138C160H	WG160PR11SY WG160PR11SY-1 WG160PR11SY-2 thru -64 WG160PR11SY-0 WG160PR11J WG160PR11JTA WG160PR11JTB	/139F160X /139F160Y /139F160Y-2 thru -64 /139F160Y-0 /139F160F /139F160H	WG160SAF3SY WG160SAF3SY-1 WG160SAF3SY-2 thru -64 WG160SAF3SY-0 WG160SAF3J WG160SAF3JTA WG160SAF3JTB
MIL-C-55302/139	Number of Contacts: 160		
/139A160X /139A160Y /139A160Y-2 thru -64 /139A160Y-0 /139A160F /139A160S /139A160H	WG160SACSY WG160SACSY-1 WG160SACSY-2 thru -64 WG160SACSY-0 WG160SACJ WG160SACJTA WG160SACJTB	/139H160X /139H160Y /139H160Y-2 thru -64 /139H160Y-0 /139H160F /139H160S /139H160H	WG160SAF6SY WG160SAF6SY-1 WG160SAF6SY-2 thru -64 WG160SAF6SY-0 WG160SAF6J WG160SAF6JTA WG160SAF6JTB



"WB" SERIES - .050" MIL-C-55302



Contents

"WB" Series

.050" Rectangular Plastic Board Level Connectors

WB-1 Contents
WB-2 Specifications
WB-3 Performance

WB-4 Part number description

2-Row Connectors - PC Card or SMT to Board, Sizes: 20-132

WB-5 WB Plug, right angle, with mounting ears
WB Receptacle, straight, with mounting ears

WB-7 WBB, WBA Plug, straight, surface mount, with mounting ears

WB Receptacle, straight, with mounting ears

WB-9 Hardware

WB-10 WB Board layout - plug, right angle WB-11 WB Board layout - receptacle, straight

WB-12 WBB, WBA Board layout - plug, straight, surface mount

Military Cross Reference

WB-13 Chart



Specifications Materials and Finishes *

Pin Contacts: Phosphor Bronze per ASTM B 139

Socket Contacts: BeCu per MIL-C-55302

Contact Finish: Au per ASTM B 488-, SAE AMS 2422. Localized finish over MIL-C-55302

Molded Insulators: Glass filled polyphenylene sulfide per MIL-M-24519, Type GST-40F

Keying Features: Polarized octagonal guides can be a molded integral part of the insulator or separate

stainless steel hardware.

Tolerances: Unless otherwise specified: Fractions = $\pm 1/64$ "

Decimals = $\pm .010$ " Angles = $\pm 5^{\circ}$

Note: AirBorn can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable



Performance Reference MIL-C-55302

Contact Rating: 1.5 amperes

Solderability: Tested to MIL-STD-202, Method 208

Operating Temperature: -65° to +125° C or -85° to +257° F

Contact Engagement Force: 2.0 oz. maximum with .0189/.0190 diameter test pin in accordance with SAE AS 31971

Category: Requirements: Test Method Per:
SAE AS 13441

Test Voltage: 600 V, RMS, 60 Hz @ sea level #3001

150 V, RMS, 60 Hz @ 70,000 feet

Insulation Resistance: 5,000 megohms minimum @ 500 VDC #3003

Durability: 500 connector mating cycles

Contact Resistance: .0375 volt maximum drop @ 1.5 amperes - #3004

(.025 ohms)

Contact Resistance: .0375 volt maximum drop @ 1.5 amperes -



Part Number Description

Each part number consists of four elements: series, size (number of contacts), type of contacts, and type of hardware.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each part number is identified by a combination of letters and/or numbers of varying lengths. These numbers are written together without spaces or punctuation.

Series:

The series letters identify the connector body style. Follow choices on each catalog page for series numbers.

Size:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page unless otherwise noted.

Contacts:

Each page also identifies all contact options for a given connector.

Hardware:

Hardware options are shown on each catalog page. Follow the choices for each connector.

Note:

Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact the factory for further assistance.

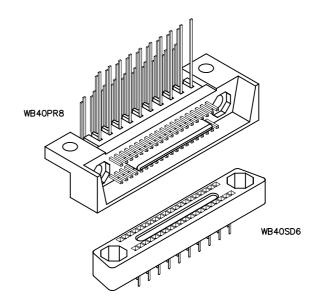


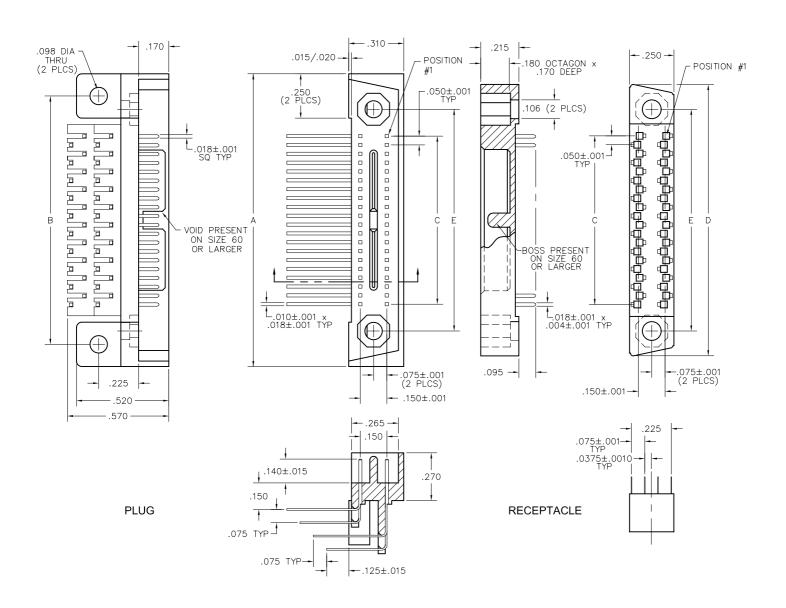
2 · ROW PC Card to Chassis or Board

.050"

WB - WB

20 thru 132 Contacts







PLUG: WB40PR8

RECEPTACLE:	WB40SD6
	XXXXXXXXXXX

PLUG	XXXXXXX	XXX	
	SERIES		
WB 2 row, right angle, plug, with mounting ears	WB 2 row, straight, receptacle, with mounting ears		
	SIZE		
20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132		
	CONTACTS		
TYPE CONTACTS/TERMINATIONS: PR8 Pin, right angle, dip solder, .125"	TYPE CONTACTS/TERMINATIONS: SD6 Socket, straight, dip solder, .095" SD9 Socket, straight, dip solder, .140" SD12 Socket, straight, dip solder, .190" SD19 Socket, straight, dip solder, .300"		
	HARDWARE		

K*_* KY*_* JTFF

STYLE OF HARDWARE: (See WB-9)

Stainless steel keying guides, polarized 2 stainless steel turning jacksockets

Integral keying guides, polarized

STYLE OF HARDWARE: (See WB-9)

Stainless steel keying guides, polarized 2 stainless steel fixed jackscrews

Integral keying guides, polarized

K*_* KY*_*

JMM

DIMENSIONS							
SIZE	Α	В	С	D	Е		
20	1.150	.900	.450	1.030	.750		
30	1.400	1.150	.700	1.280	1.000		
40	1.650	1.400	.950	1.530	1.250		
50	1.900	1.650	1.200	1.780	1.500		
60	2.150	1.900	1.450	2.030	1.750		
70	2.400	2.150	1.700	2.280	2.000		
80	2.650	2.400	1.950	2.530	2.250		
90	2.900	2.650	2.200	2.780	2.500		
100	3.150	2.900	2.450	3.030	2.750		
110	3.400	3.150	2.700	3.280	3.000		
128	3.850	3.600	3.150	3.730	3.450		
132	3.950	3.700	3.250	3.830	3.550		



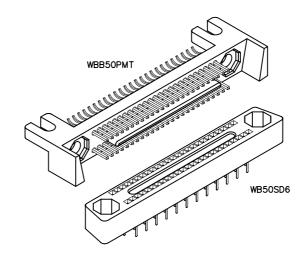
2 · ROW SMT Card to Chassis or Board

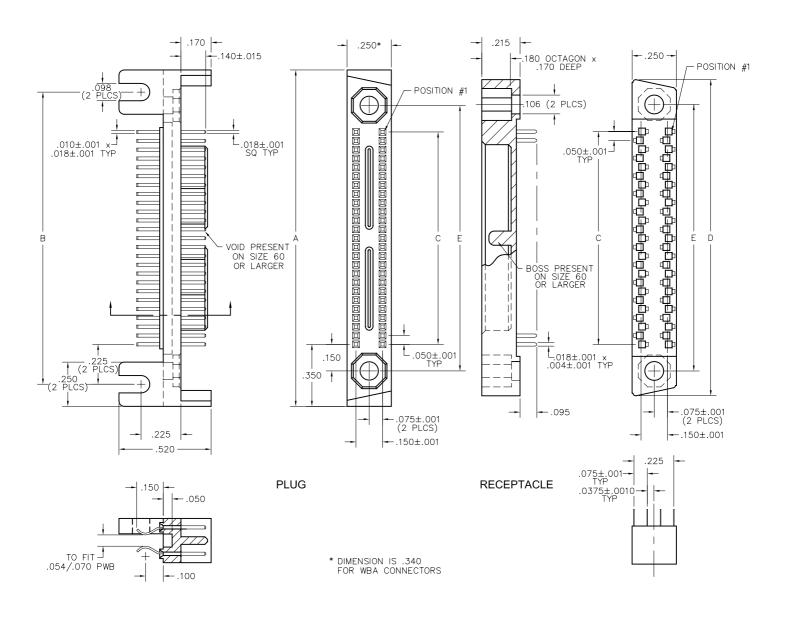
.050"

WBB-WB

WBA-WB

20 thru 132 Contacts







PLUG: WBB50PMT RECEPTACLE: WB50SD6

RECEPTACLE: WB50SD6 XXXXXXXXXXXX

PLUG RECEPTACLE

WBB 2 row, SMT, plug, with mounting ears
WBA 2 row, SMT, plug, full skirt, with mounting ears
WBA 2 row, SMT, plug, full skirt, with mounting ears

SIZE

20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132 | 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132

CONTACTS

TYPE CONTACTS/TERMINATIONS:

PMT Pin, card edge SMT (Board: .054/.070)

SD6 Socket, straight, dip solder, .095"
SD9 Socket, straight, dip solder, .140"
SD12 Socket, straight, dip solder, .190"
SD19 Socket, straight, dip solder, .300"

HARDWARE

STYLE OF HARDWARE: (See WB-9)

K*_* Integral keying guides, polarized

KY*_* Stainless steel keying guides, polarized

JMM 2 stainless steel fixed jackscrews

STYLE OF HARDWARE: (See WB-9)

K*_* Integral keying guides, polarized

KY*_* Stainless steel keying guides, polarized

JTFF 2 stainless steel turning jacksockets

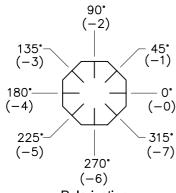
DIMENSIONS							
SIZE	Α	В	C	D	Е		
20	1.150	.900	.450	1.030	.750		
30	1.400	1.150	.700	1.280	1.000		
40	1.650	1.400	.950	1.530	1.250		
50	1.900	1.650	1.200	1.780	1.500		
60	2.150	1.900	1.450	2.030	1.750		
70	2.400	2.150	1.700	2.280	2.000		
80	2.650	2.400	1.950	2.530	2.250		
90	2.900	2.650	2.200	2.780	2.500		
100	3.150	2.900	2.450	3.030	2.750		
110	3.400	3.150	2.700	3.280	3.000		
128	3.850	3.600	3.150	3.730	3.450		
132	3.950	3.700	3.250	3.830	3.550		



Hardware

Polarization

Integral Keying Guides



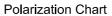
Polarization





$$-2$$
 -6







Example: WB**PR8K2-2 (Plug)



Example: WB**SD6K2-2 (Receptacle)

- 1. Each "dash" number represents 45° clocking from horizontal (0°).
- 2. The first number designates "Key 1", the second number designates "Key 2".

Hardware Options:

Hardware Style: KY* - *



Stainless Steel Polarized Guide

Plug	Mates with	Receptacle	Plug	Mates with	Receptacle
-0		─ −0	-4		-4
/ −1		▼ -7	⊘ −5		● -3
-2		-6	-6		-2
▲ −3		/ -5	● -7		/ −1

Hardware Style: JMM (Plug only)



Groove Pin



(#4-40 UNC-2A)

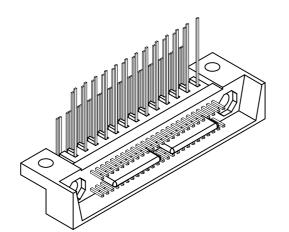
Hardware Style: JTFF (Receptacle only)





E-Ring

Turning Jacksocket



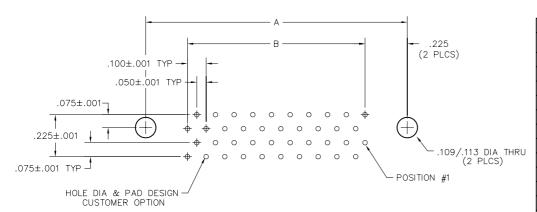


.050"

WB

20 thru 132 Contacts

Recommended Board Layout



DIMENSIONS							
SIZE	В						
20	.900	.450					
30	1.150	.700					
40	1.400	.950					
50	1.650	1.200					
60	1.900	1.450					
70	2.150	1.700					
80	2.400	1.950					
90	2.650	2.200					
100	2.900	2.450					
110	3.150	2.700					
128	3.600	3.150					
132	3.700	3.250					

RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20	(19) (17) (15) (13) (11) (20) (18) (16) (14) (12) (9) (7) (5) (3) (1) (10) (10) (18) (6) (4) (2)	60	59 (57) (33 (31) 60 (58) (34) (32) (29 (27) (3) (1) (30 (28) (4) (2)	100	99 97 53 51 00 98 54 52 49 47 3 1 50 48 4 2
30	(30) (28) (26) (24) (22) (18) (16) (29) (27) (25) (23) (21) (19) (17) (15) (13) (11) (9) (7) (5) (3) (1) (14) (12) (10) (8) (6) (4) (2)	70	(70) (68) (38) (36) (69) (67) (39) (37) (35) (33) (3) (1) (34) (32) (4) (2)	110	(110)(08) (58)(56) (09)(07) (59)(57) (55)(53) (3)(1) (54)(52) (4)(2)
40	39 37 23 21 40 38 24 22 19 17 3 1 20 18 4 2	80	79 77 43 41 80 78 44 42 39 37 3 1 40 38 42	128	(27(25) (67)(65) (28)(26) (68)(66) (63)(61) (3)(1) (64)(62) (4)(2)
50	(50) (48) (28) (26) (49) (47) (29) (27) (25) (23) (3) (1) (24) (22) (4) (2)	90	(90) (88) (48) (46) (49) (47) (45) (43) (3) (1) (44) (42) (4) (2)	132	(13)(29) (69)(67) (32)(130) (70)(68) (65)(63) (3)(1) (66)(64) (4)(2)



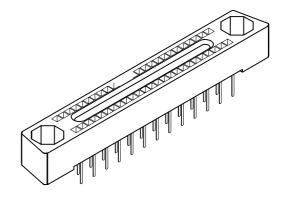
2 · ROW Straight PTH Rcpt

.050"

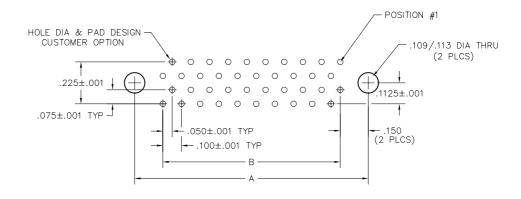
WB

20 thru 132 Contacts

Recommended Board Layout

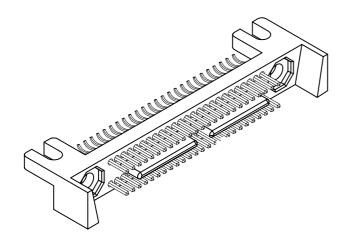


DIMENSIONS				
SIZE	Α	В		
20	.750	.450		
30	1.000	.700		
40	1.250	.950		
50	1.500	1.200		
60	1.750	1.450		
70	2.000	1.700		
80	2.250	1.950		
90	2.500	2.200		
100	2.750	2.450		
110	3.000	2.700		
128	3.450	3.150		
132	3.550	3.250		



STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20	9 7 5 3 1 10 8 6 4 2 19 17 15 13 11 20 18 16 14 12	60	(29)(27) (30)(28) (4)(2) (59)(57) (33)(31) (60)(58) (34)(32)	100	(49)(47) (50)(48) (99)(97) (53)(51) (100)(98) (54)(52)
30	15 (13) (1) (9) (7) (5) (3) (1) (14) (12) (10) (8) (6) (4) (2) (30) (28) (26) (24) (22) (20) (18) (16) (29) (27) (25) (23) (21) (19) (17)	70	(35) (33) (3) (1) (34) (32) (4) (2) (70) (68) (38) (36) (69) (67) (39) (37)	110	(55)(53) (3) (1) (54)(52) (4) (2) (10)(08) (58)(56) (109)(07) (59)(57)
40	(19 (17) (20 (18) (39 (37) (40 (38) (24 (22)	80	(39)(37) (40)(38) (79)(77) (43)(41) (80)(78) (44)(42)	128	(63) (61) (3) (1) (64) (62) (4) (2) (27) (25) (67) (65) (28) (26) (68) (66)
50	25 23 3 1 24 22 4 2 50 48 28 26 49 47 29 27	90	45 (43) (3) (1) (44 (42) (4) (2) (90) (88) (48) (46) (89) (87) (49) (47)	132	(65) (63) (3) (1) (66) (64) (4) (2) (13) (129) (69) (67) (132) (30) (70) (68)





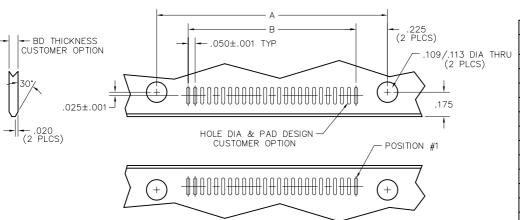
2 · ROW Straight SMT Plug

.050"

WBB, WBA

20 thru 132 Contacts

Recommended Board Layout



DIMENSIONS							
SIZE	Α	В					
20	.900	.450					
30	1.150	.700					
40	1.400	.950					
50	1.650	1.200					
60	1.900	1.450					
70	2.150	1.700					
80	2.400	1.950					
90	2.650	2.200					
100	2.900	2.450					
110	3.150	2.700					
128	3.600	3.150					
132	3.700	3.250					

STRAIGHT SMT PLUG

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20	C10 > C20 > C30 > C30 > C30 > C30 > C40 >	60	C 30	100	C500 C1000 C480 C9800 C480 C9800 C480 C9800 C6000 C9800 C6000 C9800 C600 C500 C600 C500 C600 C500 C600 C500 C600 C500
30	C150 C300 C140 C2900 C130 C2800 C130 C2800 C2800 C1800 C200 C1700 C100 C1600	70	C 35 D C 70 D C 35 D C 70 D C 33 D C 68 D D C 68	110	C550 C1100 C540 C1000 C530 C1000 C530 C1000 C530 C580 C530 C580 C10 C560
40	C200 C400 C190 C390 C180 C380 C180 C380 C30 C380 C30 C200 C20 C200 C10 C210	80	C 400 C 800 C 390 C 790	128	C640 C1280 C630 C1270 C620 C1270 C620 C1270 C620 C1270 C70 C600 C70 C600 C10 C650
50	C250 C500 C240 C4800 C230 C4800 C230 C4800 C20 C2800 C20 C2800 C10 C260	90	C 450 C 450 C 450 C 430 C 430 C 680 C 680 C 680 C 70 C 10 C 20 C 10 C 10	132	C660 C1320 C650 C1320 C640 C1330 C640 C1330 C650 C680 C650 C680



Military Cross Reference Chart

MIL Number	WB Series	Size	Description
M55302/117-01	WB20PR8	20	Right angle plug, 3/4 skirt
M55302/117-02	WB30PR8	30	Right angle plug, 3/4 skirt
M55302/117-03	WB40PR8	40	Right angle plug, 3/4 skirt
M55302/117-04	WB50PR8	50	Right angle plug, 3/4 skirt
M55302/117-05	WB60PR8	60	Right angle plug, 3/4 skirt
M55302/117-06	WB70PR8	70	Right angle plug, 3/4 skirt
M55302/117-07	WB80PR8	80	Right angle plug, 3/4 skirt
M55302/117-08	WB90PR8	90	Right angle plug, 3/4 skirt
M55302/117-09	WB100PR8	100	Right angle plug, 3/4 skirt
M55302/117-10	WB110PR8	110	Right angle plug, 3/4 skirt
M55302/117-11	WB128PR8	128	Right angle plug, 3/4 skirt
M55302/118-01	WBB20PMT	20	Surface mount, no skirt
M55302/118-02	WBB30PMT	30	Surface mount, no skirt
M55302/118-03	WBB40PMT	40	Surface mount, no skirt
M55302/118-04	WBB50PMT	50	Surface mount, no skirt
M55302/118-05	WBB60PMT	60	Surface mount, no skirt
M55302/118-06	WBB70PMT	70	Surface mount, no skirt
M55302/118-07	WBB80PMT	80	Surface mount, no skirt
M55302/118-08	WBB90PMT	90	Surface mount, no skirt
M55302/118-09	WBB100PMT	100	Surface mount, no skirt
M55302/118-10	WBB110PMT	110	Surface mount, no skirt
M55302/118-11	WBB128PMT	128	Surface mount, no skirt
10133302/110-11	VVDB1201 WT	120	ourlace mount, no skirt
M55302/118-12	WBA20PMT	20	Surface mount, full skirt
M55302/118-13	WBA30PMT	30	Surface mount, full skirt
M55302/118-14	WBA40PMT	40	Surface mount, full skirt
M55302/118-15	WBA50PMT	50	Surface mount, full skirt
M55302/118-16	WBA60PMT	60	Surface mount, full skirt
M55302/118-17	WBA70PMT	70	Surface mount, full skirt
M55302/118-18	WBA80PMT	80	Surface mount, full skirt
M55302/118-19	WBA90PMT	90	Surface mount, full skirt
M55302/118-20	WBA100PMT	100	Surface mount, full skirt
M55302/118-21	WBA110PMT	110	Surface mount, full skirt
M55302/118-22	WBA128PMT	128	Surface mount, full skirt
			,
M55302/119-01	WB20SD9/12	20	Receptacle, .140 and .190 lead length
M55302/119-02	WB30SD9/12	30	Receptacle, .140 and .190 lead length
M55302/119-03	WB40SD9/12	40	Receptacle, .140 and .190 lead length
M55302/119-04	WB50SD9/12	50	Receptacle, .140 and .190 lead length
M55302/119-05	WB60SD9/12	60	Receptacle, .140 and .190 lead length
M55302/119-06	WB70SD9/12	70	Receptacle, .140 and .190 lead length
M55302/119-07	WB80SD9/12	80	Receptacle, .140 and .190 lead length
M55302/119-08	WB90SD9/12	90	Receptacle, .140 and .190 lead length
M55302/119-09	WB100SD9/12	100	Receptacle, .140 and .190 lead length
M55302/119-10	WB110SD9/12	110	Receptacle, .140 and .190 lead length
M55302/119-11	WB128SD9/12	128	Receptacle, .140 and .190 lead length
M55302/119-12	WB100SD19	100	Receptacle, .300 lead length
M55302/119-13	WB110SD19	110	Receptacle, .300 lead length
M55302/119-14	WB128SD12	128	Receptacle, .190 lead length

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