



ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PCIM	34W13	F	93	0	0	A1	/AA	

STEP 1 - BASIC SERIES

PCIM - PCIM Series

STEP 2 - CONNECTOR VARIANTS

- 30W15 - 15 size 16 contacts and 15 size 22 contacts
- 30W15R - 15 size 16 contacts and 15 size 22 contacts. Inverted termination style, use with contact type "4"
- 33W18 - 18 size 16 contacts and 15 size 22 contacts
- 33W18R - 18 size 16 contacts and 15 size 22 contacts. Inverted termination style, use with contact type "4"
- 34W13 - 13 size 16 contacts and 21 size 22 contacts
- 34W13R - 13 size 16 contacts and 21 size 22 contacts. Inverted termination style, use with contact type "4"
- 37W16 - 16 size 16 contacts and 21 size 22 contacts
- 37W16R - 16 size 16 contacts and 21 size 22 contacts. Inverted termination style, use with contact type "4"

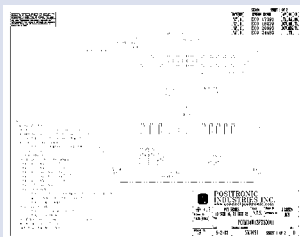
STEP 3 - CONNECTOR GENDER

- F - Female
- M - Male

STEP 4 - CONTACT TERMINATION TYPE

- 3 - Solder, Straight Printed Board Mount with 4.50 [0.177] tail extension for connection system 1.
- 4 - Solder, Right Angle (90°) Printed Board Mount with 2.68 [0.106] tail extension for connection systems 1 and 4.
- 8 - Contacts must be ordered separately for Panel Mount Cable Connectors, connection system 3, see pages 102-103. Female connector only.
- 93 - Press-Fit, Compliant Termination size 16 and size 22 Straight Printed Board Mount for use with board thicknesses of 2.29 to 4.45 [0.090 to 0.175]. Connection system 1.
- 94 - Press-Fit, Compliant Termination size 16 and size 22 Straight Printed Board Mount for use with board thickness of 4.45 minimum [0.175 minimum]. Connection system 1.

NOTE: Once you have made a connector selection, contact Technical Sales if you would like to receive a drawing in DXF, PDF format or a 3-dimensional IGES file.



SK Drawing



3-dimensional model

STEP 9 - SPECIAL OPTIONS

FOR LISTING OF SPECIAL OPTIONS, SEE SPECIAL OPTIONS APPENDIX ON PAGES 111 AND 112.

STEP 8 - ENVIRONMENTAL COMPLIANCE OPTIONS

/AA - Compliant per EU Directive 2002/95/EC (RoHS)

NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: PCIM34W13F9300A1

STEP 7 - CONTACT PLATING FOR PRINTED BOARD TYPE CONNECTORS

- 0 - Crimp contacts ordered separately
- A1 - Gold flash over nickel on mating end and termination end.
- A2 - Gold flash over nickel on mating end and 5.00 microns [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.
- C1 - 0.76 microns [0.000030 inch] gold over nickel on mating end and termination end.
- C2 - 0.76 microns [0.000030 inch] gold over nickel on mating end and 5.00 microns [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.
- D1 - 1.27 microns [0.000050 inch] gold over nickel on mating end and termination end.
- D2 - 1.27 microns [0.000050 inch] gold over nickel on mating end and 5.00 microns [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.

STEP 6 - HOODS

- 0 - Not applicable

STEP 5 - MOUNTING STYLE

- 0 - Standard Option
- See page 108 for mounting screw options.



MODIFICATION OF STANDARD (MOS)

Specify complete connector by selecting a base part number from the desired series **Ordering Information Page**. Once base part number is selected, add desired modification of standard (MOS) number below to the end of the part number.

Example part number: PCIH47F9300A1/AA-245.0

(Ordering information pages can be found at the end of each series)

	CONNECTOR VARIANT SIZE	GENDER	TERMINATION TYPE AVAILABLE	MODIFICATION OF STANDARD (MOS) NUMBER	DESCRIPTION OF MODIFICATION
PCIH	38	F	3, 93, 94	-245.0	System 2, Straight Printed Board Mount 38 contact connector with 3 high profile A.C. pass-through contact positions.
	38	F	3, 93, 94	-246.1	System 2, Straight Printed Board Mount 38 contact connector with 3 low profile A.C. pass-through contact positions.
	47	F	3, 93, 94	-246.0	System 2, Straight Printed Board Mount 47 contact connector with 3 low profile A.C. pass-through contact positions.
	47 *47R	F	4	-246.4	System 5, Right Angle (90°) Board Mount 47 contact connector with 3 A.C. pass-through contact positions.
	47	M	4	259.0	Selectively loaded Right Angle (90°), 47 contact connector with ten total output contacts loaded in 1, 4, 5, 8, 9, 12, 13, 16, 19, 20. See page 11.
	47	M	4	259.1	Selectively loaded Right Angle (90°), 47 contact connector with six total output contacts loaded in 1, 5, 9, 13, 19, 20. See page 11.
	47	M	4	259.2	Selectively loaded Right Angle (90°), 47 contact connector with sixteen total output contacts loaded in 1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16, 17, 19, 20. See page 11.
	47	M	3, 4, 93, 94	-441.0	System 1 & 4, allows for any 47 male contact connector to be supplied with two additional contact positions, 48 and 49, to be left vacant in order to accept keying plugs. See page 7.
	47	F	3, 4, 93, 94	-442.0	System 1 & 4, allows for any 47 female contact connector to be supplied with two additional contact positions, 48 and 49, to be left vacant in order to accept keying plugs. See page 7.
	49W25	F	3, 93, 94	-246.3	System 2, Straight Printed Board Mount 49 contact connector with 5 low profile A.C. pass-through contact positions.
	49W25	M	3, 4, 93, 94	-378.0	Allows contacts 45-49 to be sequentially mated as follows: Position 45 is first mate, positions 46, 47, 48, and 49 are second mate. Male connector mates with female connector using MOS number -379.0.
	49W25 *49W25R	F	3, 4, 93, 94	-379.0	Allows for contact positions 46, 47, 48 and 49 to have 5mm recess. Contact 45 to have 2mm recess. Female connector mates with male connector using MOS number -378.0.
CONTACT TECHNICAL SALES FOR ADDITIONAL SPECIAL OPTIONS					

SPECIAL OPTIONS



MODIFICATION OF STANDARD (MOS)

Specify complete connector by selecting a base part number from the desired series [Ordering Information Page](#).
Once base part number is selected, add desired modification of standard (MOS) number below to the end of the part number.

Example part number: PCIH47F9300A1/AA-245.0

(Ordering information pages can be found at the end of each series)

	CONNECTOR VARIANT SIZE	GENDER	TERMINATION TYPE AVAILABLE	MODIFICATION OF STANDARD (MOS) NUMBER	DESCRIPTION OF MODIFICATION
PCIA	Consult Technical Sales for Special Options				
PCIM	33W18	F	3, 93, 94	-246.10	System 2, Straight Printed Board Mount Connector with 3 low profile A.C pass-through contact positions.
PCIB	24W9	F	3, 93, 94	-246.5	System 2, Straight Printed Board Mount Connector with 3 low profile A.C pass-through contact positions.
	24W9 *24W9R	F	4	-422.0	System 1 and 4, Right Angle (90°) Printed Board Mount Connector with 3 low profile A.C pass-through contact positions.
	26W11	F	3, 93, 94	-246.6	System 2, Straight Printed Board Mount Connector with 5 low profile A.C pass-through contact positions.
	26W11	M	3, 93, 94	-444.0	Fixed jackscrew system. Male connector mates with female connector using MOS number -443.0
	26W11	F	8	-443.0	Rotating jackscrew system. Female connector mates with male connector using MOS number -444.0.
PCIC	16W7	F	3, 93, 94	-246.2	System 2, Straight Printed Board Mount Connector with 3 low profile A.C. Pass-Through contact positions.
	3W3	F	93, 94	-444.2	Special molding, fixed female jackscrews. Female connector mates with male connector using MOS number -443.2.
	3W3	M	3	-443.2	Special molding, special rotating male jackscrews. Male connector mates with female connector using MOS number -444.2.
CONTACT TECHNICAL SALES FOR ADDITIONAL SPECIAL OPTIONS					

*Inverted termination available on connectors with code 4 termination only.



REMOVABLE CONTACT TECHNICAL CHARACTERISTICS

SIZE 22 REMOVABLE CONTACT

MATERIALS AND FINISHES:

Precision machined copper alloy with gold flash over nickel. Other finishes are available, see optional finishes for -14 and -15.

MECHANICAL CHARACTERISTICS:

Insert contact to rear face of insulator, release from front face of insulator. Female contact feature "Closed Entry" design for highest reliability.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 3 amperes nominal.
Initial Contact Resistance: 0.004 ohms max. per IEC 512-2, test 2b.

SIZE 20 REMOVABLE CONTACT

MATERIALS AND FINISHES:

Precision machined copper alloy with gold flash over nickel. Other finishes are available, see optional finishes for -14 and -15.

MECHANICAL CHARACTERISTICS:

Insert contact to rear face of insulator, release from front face of insulator. Female contact feature "Closed Entry" design for highest reliability.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes nominal.
Initial Contact Resistance: 0.004 ohms max. per IEC 512-2, test 2b.

SIZE 16 REMOVABLE CONTACT

MATERIALS AND FINISHES:

HIGH CONDUCTIVITY: Tellurium copper, gold flash over nickel. Other finishes are available, see optional plating finishes for -14 and -15.

MECHANICAL CHARACTERISTICS:

Insert contact to rear face of insulator, release from front face of insulator. Female contact feature "Closed Entry" design for highest reliability.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: See Size 16 contact current ratings for individual variants:
PCIH - refer to page 13
PCIA - refer to page 38
PCIM - refer to pages 47-48
PCIB - refer to page 72
PCIC - refer to page 91
Initial Contact Resistance: 0.0007 ohms max. per IEC 512-2, test 2b.

OPTIONAL PLATING FINISHES

-14 0.000030 [0.76 μ] gold over nickel by adding "-14" suffix onto part number. *Example: FC720N2-14.*
-15 0.000050 inch [1.27μ] gold over nickel by adding "-15". *Example: FC720N2-15.*

RoHS OPTIONS:

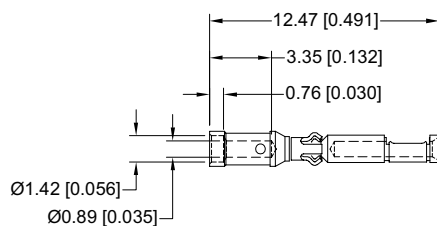
/AA Environmental Compliance Option (RoHS), compliant per EU Directive 2002/95/EC can be achieved by adding "AA" suffix onto part number. *Examples: FC720N2/AA or for optional finishes use FC720N2/AA-14.*



REMOVABLE CRIMP CONTACT

FOR USE WITH PCIH, PCIA, PCIM, PCIB & PCIC SERIES PANEL MOUNT VERSION
CONTACTS MUST BE ORDERED SEPARATELY
SIZE 22

FEMALE CONTACT "CLOSED ENTRY" DESIGN



Part Number: FC422N8
Wire size 0.3 mm² [22 AWG]



What makes Positronic's new PosiBand® contact interface a significant improvement?

- Higher reliability in harsh environments and repeated mating cycles, and durability in blind mate applications
- More stable price over time
- No need to anneal PosiBand contacts eliminating possibility of incorrect annealing causing reliability problems on the mating end of the contact

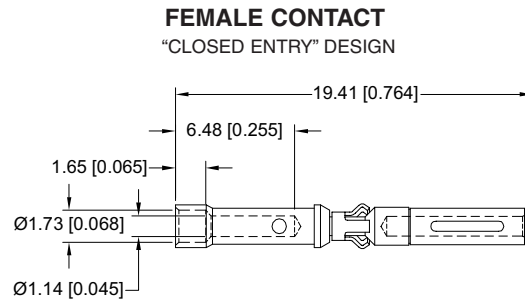
For more information on PosiBand contacts, please contact Technical Sales.

For information regarding crimp tool and crimping tool techniques, see Application Tools section, pages 104-110.



REMOVABLE CRIMP CONTACT

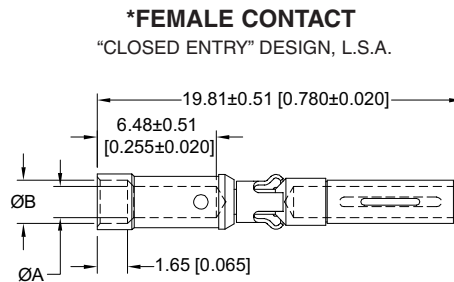
FOR USE WITH PCIH SERIES PANEL MOUNT VERSION
CONTACTS MUST BE ORDERED SEPARATELY
SIZE 20



Part Number: FC720N2
Wire size 0.5-0.3-0.25 mm² [20-22-24 AWG]

REMOVABLE CRIMP CONTACT

FOR USE WITH A.C. PASS-THROUGH AND PANEL MOUNT VERSIONS
FOR PCIH, PCIA, PCIM, PCIB & PCIC SERIES CONNECTORS
CONTACTS MUST BE ORDERED SEPARATELY
SIZE 16



PART NUMBER	WIRE SIZE mm ² [AWG]	ØA	ØB
FC112N2S-1565.0	4.0 / [12]	2.49 [0.098]	n/a
To maintain current rating, FC112N2S-1565.0 must be used			
FC114N2-1565.0	2.5-1.5 / [14-16]	2.06 [0.081]	2.67 [0.105]
FC116N2-1565.0	1.5-1.0 / [16-18]	1.70 [0.067]	2.36 [0.093]
FC120N2-1565.0	0.5-0.3-0.25 / [20-22-24]	1.14 [0.045]	1.65 [0.065]

"S" in part number indicates high conductivity material.

These contact options do not feature high conductivity material and are for use with smaller than 12 awg wire. Contact resistance is 0.0016 ohms max. per IEC 512-2, test 2b.

*NOTE: Female contacts feature Large Surface Area (L.S.A.) closed entry contact design which provides maximum mating surfaces between male and female contact and reduced contact resistance during operation.

For information regarding crimp tool and crimping tool techniques, see Application Tools section, pages 104-110.

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