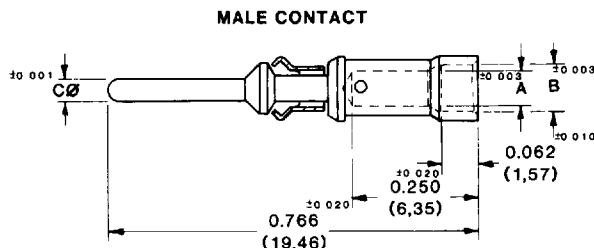
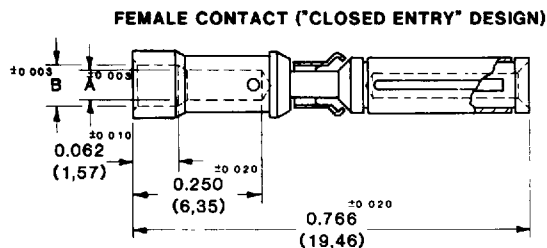


POWR-LOK SERIES CRIMP CONTACTS



Contacts are not supplied with connectors and must be ordered separately.

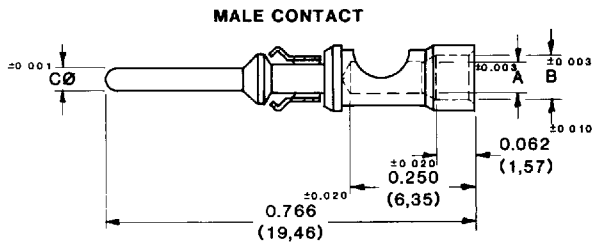
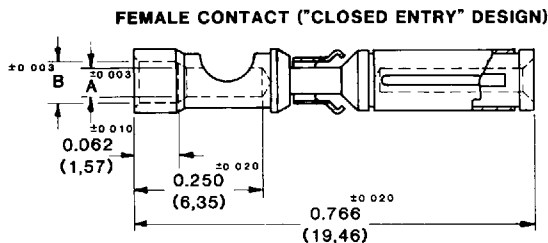
PART NUMBER	WIRE SIZE AWG/(mm ²)	A	B	NOMINAL RATING
FC112N2	12 (4,0)	0.098 (2,49)		25 amp
FC114N2	14-16 (2,5-1,5)	0.081 (2,06)	0.105 (2,67)	25 amp
FC116N2	16-18 (1,5-1,0)	0.067 (1,70)	0.097 (2,46)	25 amp
FC120N2	20-22-24 (0,5-0,3-0,25)	0.045 (1,14)	0.065 (1,65)	25 amp
FC124N2	24-26-28 (0,25-0,12-0,08)	0.027 (0,69)	0.055 (1,40)	25 amp
FC130N2	30-32 (0,05-0,03)	0.025 (0,64)	0.050 (1,27)	25 amp

PART NUMBER	WIRE SIZE AWG/(mm ²)	A	B	CØ	NOMINAL RATING
MC112N	12 (4,0)	0.098 (2,49)		0.0625 (1,588)	25 amp
MC114N	14-16 (2,5-1,5)	0.081 (2,06)	0.105 (2,67)	0.0625 (1,588)	25 amp
MC116N	16-18 (1,5-1,0)	0.067 (1,70)	0.097 (2,46)	0.0625 (1,588)	25 amp
MC120N	20-22-24 (0,5-0,3-0,25)	0.045 (1,14)	0.065 (1,65)	0.0625 (1,588)	25 amp
MC124N	24-26-28 (0,25-0,12-0,08)	0.027 (0,69)	0.055 (1,40)	0.0625 (1,588)	25 amp
MC130N	30-32 (0,05-0,03)	0.025 (0,64)	0.050 (1,27)	0.0625 (1,588)	25 amp

Material: Copper alloy.

Finish: 0.000010 (0,25µ) gold over nickel or copper. 0.000030 (0,75µ) gold over nickel available by adding -14 suffix onto part number. Example: FC120N2-14

POWR-LOK SERIES SOLDER CONTACTS



Contacts are not supplied with connectors and must be ordered separately.

PART NUMBER	WIRE SIZE MAX.	A	B	NOMINAL RATING
FS112N2	12 AWG (4,0 mm ²)	0.098 (2,49)		25 amp
FS114N2	14 AWG (2,5 mm ²)	0.081 (2,06)	0.105 (2,67)	25 amp
FS116N2	16 AWG (1,5 mm ²)	0.067 (1,70)	0.097 (2,46)	25 amp
FS120N2	20 AWG (0,5 mm ²)	0.045 (1,14)	0.065 (1,65)	25 amp
FS124N2	24 AWG (0,25 mm ²)	0.027 (0,69)	0.055 (1,40)	25 amp

PART NUMBER	WIRE SIZE MAX.	A	B	CØ	NOMINAL RATING
MS112N	12 AWG (4,0 mm ²)	0.098 (2,49)		0.0625 (1,588)	25 amp
MS114N	14 AWG (2,5 mm ²)	0.081 (2,06)	0.105 (2,67)	0.0625 (1,588)	25 amp
MS116N	16 AWG (1,5 mm ²)	0.067 (1,70)	0.097 (2,46)	0.0625 (1,588)	25 amp
MS120N	20 AWG (0,5 mm ²)	0.045 (1,14)	0.065 (1,65)	0.0625 (1,588)	25 amp
MS124N	24 AWG (0,25 mm ²)	0.027 (0,69)	0.055 (1,40)	0.0625 (1,588)	25 amp

Material: Copper alloy.

Finish: 0.000010 (0,25µ) gold over nickel or copper. 0.000030 (0,75µ) gold over nickel available by adding -14 suffix onto part number. Example: FS120N2-14.

U.S. Patent
#4,900,261

Patented in
Canada, 1992

POWR-LOK TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Glass filled polyester, UL 94V-0.
Contacts:	Precision machined copper alloy with 0.000010 inch (0.25 microns) gold over nickel, or 0.000030 inch (0.8 microns) gold over nickel. Solder coated terminations optional.
Mounting Clip:	Beryllium copper with tin plate.
Hood:	Glass filled polyester, UL 94V-0.
Grommet:	Fluorosilicone or varnac
Interfacial O-Ring:	Fluorosilicone or nitrile.
Blind Mating System:	Guides, stainless steel, passivated; mounting plate and float screws, steel with zinc plate and dichromate seal.
Mounting Bracket:	Brass with tin plate. B2 type has insulating surface on printed board side.
Push-On Fastener:	Spring tempered copper alloy.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating:	25 amps. continuous, derated per IEC 512-3, Test 5b.
Initial Contact Resistance:	0.003 ohms max. per IEC 512-2, Test 2b.
After 1000 Operations:	0.007 ohms max. per IEC 512-2, Test 2b.
Insulation Resistance:	5 G ohms per IEC 512-2, Test 3a, Method A.
Voltage Proof:	2000 Vrms per IEC 512-2, Test 4a, Method C.
Creepage Distance:	0.157 inch (4 mm) minimum.
Clearance Distance:	0.125 inch (3.2 mm) minimum.
Working Temperature:	-55°C to +125°C.
Working Voltage:	Designed to meet VDE 250V~/300V== UL 600VAC, CSA 250VAC and IEC 440V.

SHIELDED CONTACT TECHNICAL CHARACTERISTICS:

See page 24.

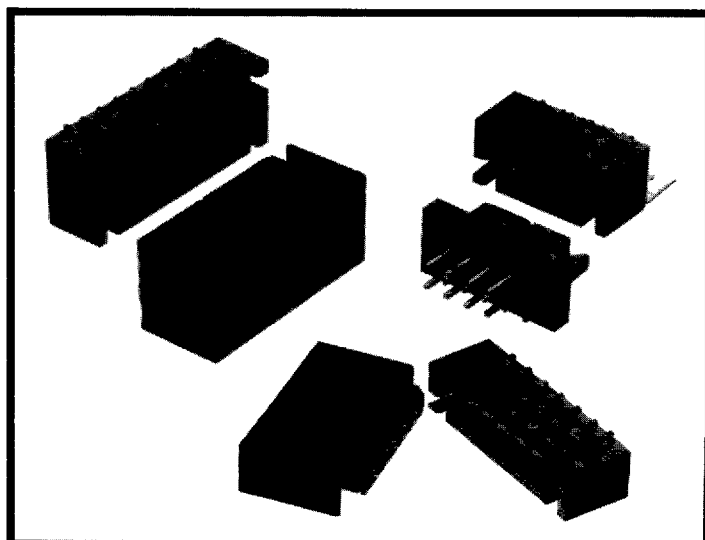
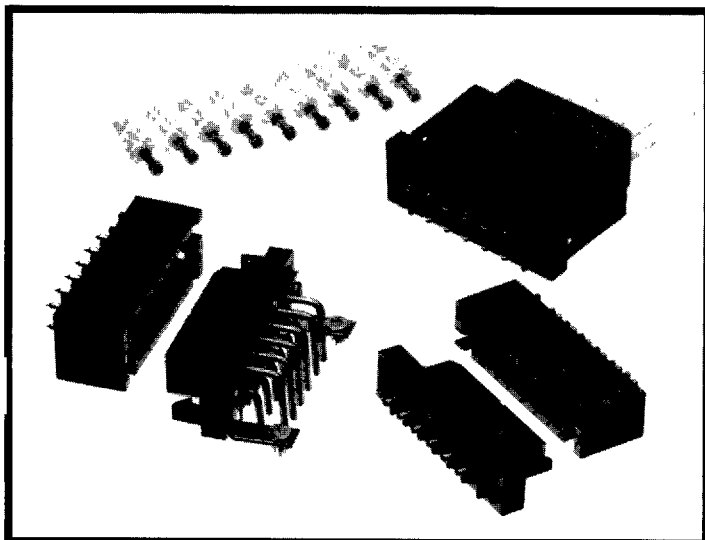
MECHANICAL CHARACTERISTICS:

Removable Contacts:	Insert contact to rear face of insulator, release from front face of insulator. Size 16, 0.062 inch (1.57mm) diameter male contact. Female contact "closed entry" design for highest reliability.
Fixed Contacts:	Size 16, 0.062 inch (1.57mm) diameter male contact. Female contact has "closed entry" design for highest reliability.
Contact Retention in Insulator:	15 lbs. (67N) per IEC 512-8, Test 15a.
Contact Terminations:	Crimp or solder removable contacts from wire sizes 12 AWG (4.0 mm ²) through 32 AWG (0.3 mm ²). Straight and 90° solder printed board mount, 0.062 inch (1.57 mm) tail diameter. Compliant termination press-fit.
Contact Insertion and Withdrawal Forces:	8 oz. (2.2N) nominal per contact.
Connection Systems:	Connector provides cable to cable, cable to printed board, cable to panel mount and printed board to printed board application.
Blind Mating System:	Panel mount connector provides lead-in for 0.100 inch (2.54 mm) axial misalignment.
Sequential Mating System:	Cable and printed board mount connectors. Male contacts provide as many as three mating lengths.
Environmental Connector:	Cable and printed board mount connectors provide for a water tight seal.
Locking System:	Insulators provide locking between cable to cable, cable to printed board and cable to panel mount applications.
Polarizations:	Provided in insulator design. Further polarization in cable connectors can be provided by mixing male contacts in female insulators and female contacts in male insulators.
Mounting to Printed Board:	Rapid installation push-on fasteners.
Mechanical Operations:	1000 operations per IEC 512-5.

U.L. Recognized
File #E49351

CSA Recognized
File #LR54219

TUV BAUART LICENSE
510/90

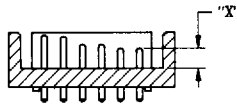


POWR-LOK SERIES SEQUENTIAL MATING SYSTEM

EXAMPLE 1



Length Code	"X" Contact length
A	0.370 (9.40)
B	0.330 (8.38)
C	0.310 (7.87)
D	0.290 (7.37)
E	0.250 (6.35)

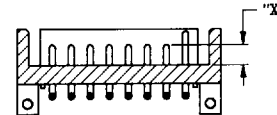
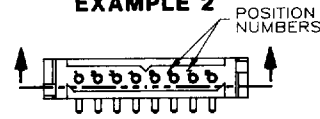


TYPICAL PART NUMBER
PLA06M300A1-E1B2B3D4D

Mating Connector Type	Contact Options
Board to Board	B,D,E
Board to Cable*	A,C,E
Cable to Cable*	A,D

* Removable contacts for cable connectors must be ordered separately.

EXAMPLE 2



TYPICAL PART NUMBER
PLA08M4B00C1-D8B

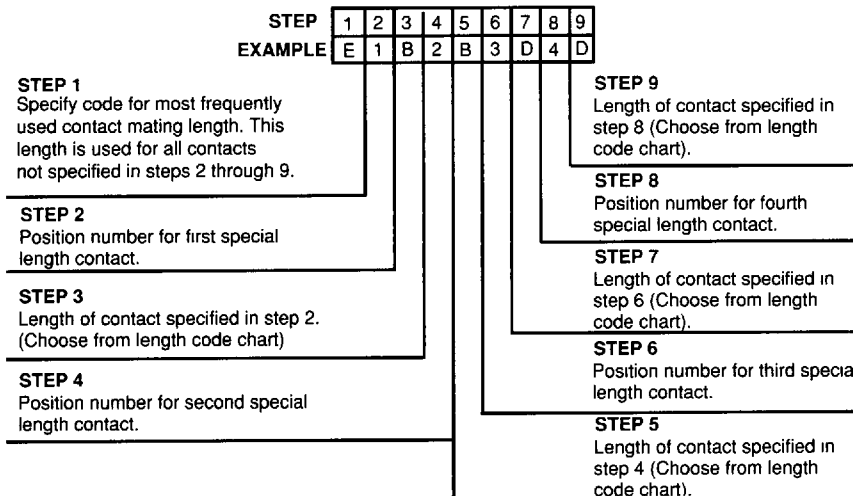
SEQUENTIAL MATING SYSTEM CRIMP REMOVABLE CONTACT PART NUMBERS

Wire size AWG/(mm ²)	Length Code "A"	Length Code "C"	Length Code "D"	Length Code "E"
12-14 (4.0-2.5)	MC112N-133 3	MC112N-133 2	MC112N-133.1	MC112N-133 0
16-18-20 (1.5-1.0-0.5)	MC116N-133 3	MC116N-133 2	MC116N-133 1	MC116N-133 0

Due to contact float in cable connectors, consideration must be given to the mating connector. Connector mating combinations and suggested contact lengths are shown above.

SELECTION GUIDE FOR ORDERING DIFFERENT CONTACT LENGTHS STEP 8 OF ORDERING INFORMATION

SEE ORDERING INFORMATION ON PAGE 31
FOR STEPS 1 THROUGH 7 TO ORDER SEQUENTIAL MATING SYSTEM CONNECTORS



Dimensions are in inches (millimeters).
All dimensions are subject to change.