

DESCRIPTION/ APPLICATION

The SBX System from Thomas & Betts is a simple, reliable, low profile system for accommodating add-on modules in stacking applications. Polarization and latching features make it an extremely desirable alternative for adding field upgradeability to a printed circuit board or extending the amount of printed circuit board area by adding a parallel card surface on top of an existing board.

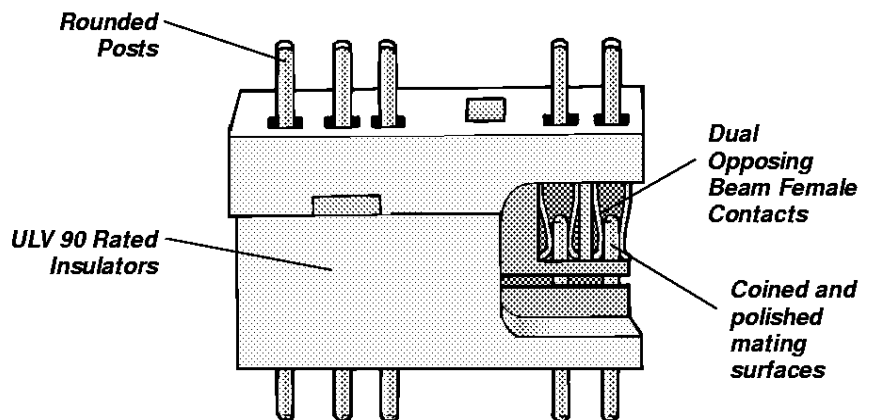
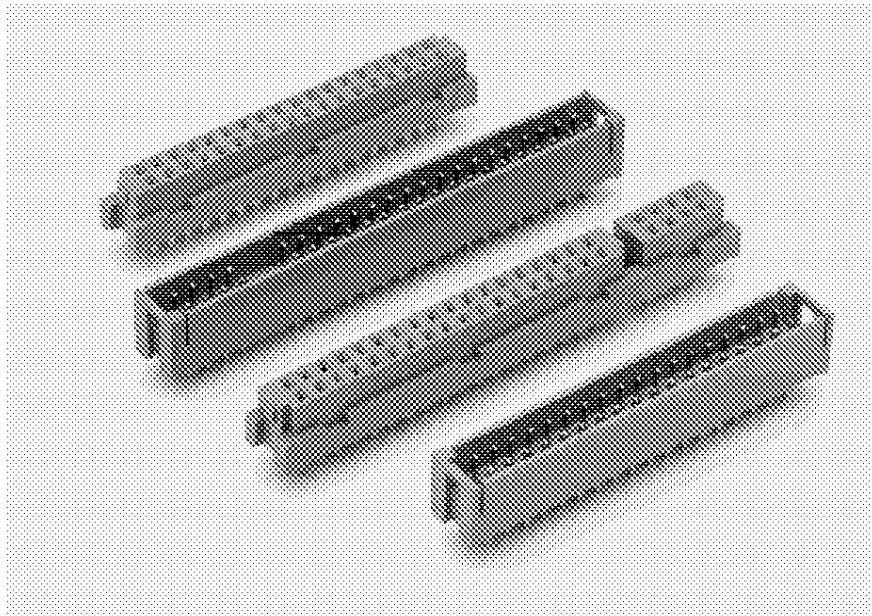
DESIGN ADVANTAGES

- Available in 36 and 44 positions.
- Conforms to IEEE-696.
- Latching feature prevents unmating in 30G drop test.
- Polarization feature prevents mismatching.
- Dual opposing beam female contact interface for optimal contact geometry.
- Stacking dimension of 12.7 mm (.500") between PCB centerlines permits applications between daughter cards on 20 mm (.800") centers.

ALSO AVAILABLE

In addition to the configurations listed in this catalog, others are available. Please contact Thomas & Betts for more information on different numbers of contacts, high temperature insulators, and alternative tail lengths.

SBX SYSTEM PRINTED CIRCUIT BOARD EXPANSION CONNECTORS FOR ADD-ON MODULES



LR49571

E60980

**STRAIGHT MALE
BX CONNECTOR
36 POSITION
SOLDER POSTS**



PHYSICAL PROPERTIES

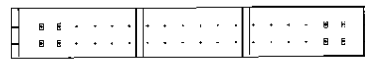
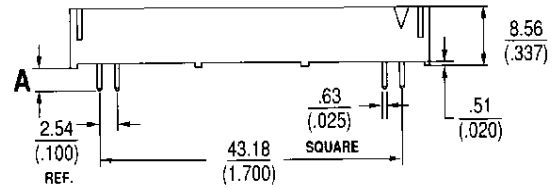
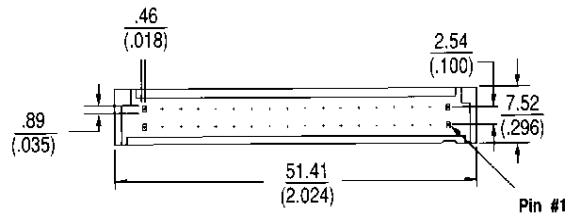
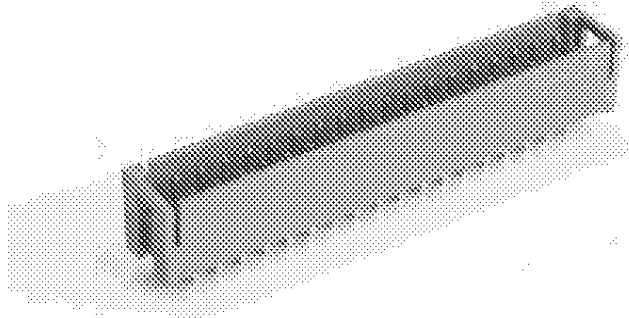
INSULATION MATERIAL: Glass filled thermoplastic rated UL 94V-0
 COLOR: Blue
 CONTACTS: Copper alloy, 30 microinches minimum gold over 50 microinches nickel in contact zone, tin/lead over nickel on solder posts

ELECTRICAL PROPERTIES

CURRENT RATING: 3 Amps
 INSULATION RESISTANCE: >1 x 10⁹ Ohms @500 VDC
 DIELECTRIC STRENGTH: > 1000 VDC at sea level

ENVIRONMENTAL PROPERTIES

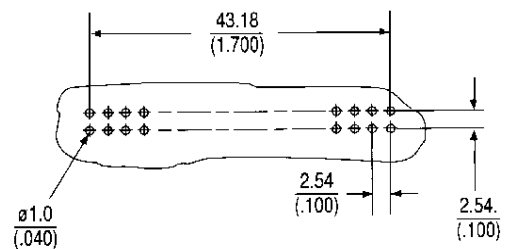
TEMPERATURE RATING: -55°C TO 125°C



Ordering Information

CATALOG NUMBER	QTY
609-BX366	3.7 (.146)
609-BX366-2	2.5 (.098)

Recommended Printed Circuit Board Layout



**STRAIGHT FEMALE
BX CONNECTOR
36 POSITION
SOLDER TAILS**



PHYSICAL PROPERTIES

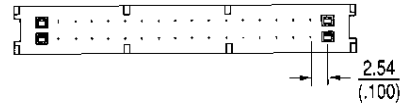
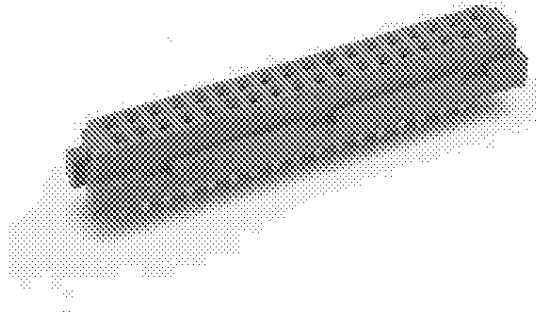
INSULATION MATERIAL: Glass filled thermoplastic rated UL 94V-0
 COLOR: Blue
 CONTACTS: Copper alloy, 30 microinches minimum gold over 50 microinches nickel in contact zone, tin/lead over nickel on solder tails

ELECTRICAL PROPERTIES

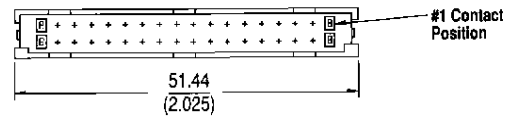
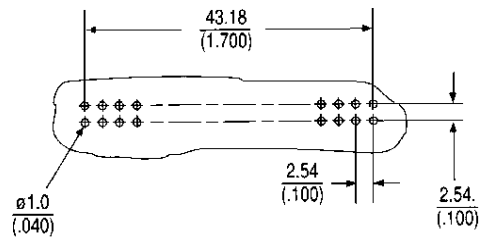
CURRENT RATING: 3 Amps
 INSULATION RESISTANCE: >1 x 10⁹ Ohms @500 VDC
 DIELECTRIC STRENGTH: > 1000 VDC at sea level

ENVIRONMENTAL PROPERTIES

TEMPERATURE RATING: -55°C TO 125°C

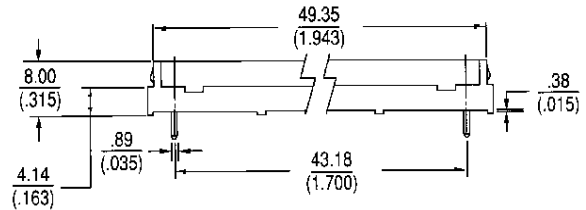
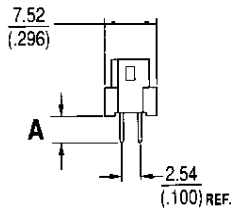


Recommended Printed Circuit Board Layout



Ordering Information

CATALOG NUMBER	QTY
609-BX360	3.7 (.146)
609-BX360-2	2.5 (.098)



**MALE BX CONNECTOR
44 POSITION
SOLDER POSTS**



PHYSICAL PROPERTIES

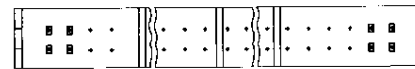
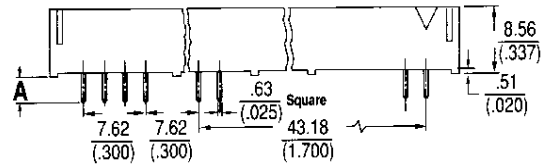
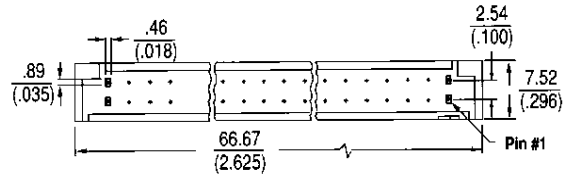
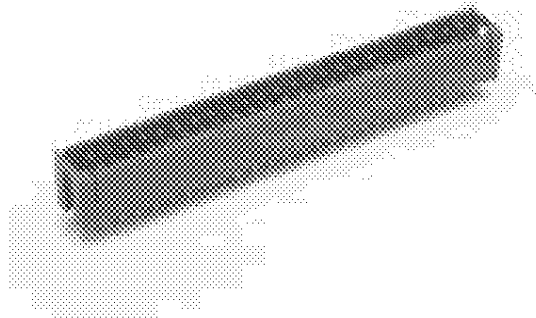
INSULATION MATERIAL: Glass filled thermoplastic rated UL 94V-0
 COLOR: Blue
 CONTACTS: Copper alloy, 30 microinches minimum gold over 50 microinches nickel in contact zone, tin/lead over nickel on solder posts

ELECTRICAL PROPERTIES

CURRENT RATING: 3 Amps
 INSULATION RESISTANCE: >1 x 10⁹ Ohms @500 VDC
 DIELECTRIC STRENGTH: > 1000 VDC at sea level

ENVIRONMENTAL PROPERTIES

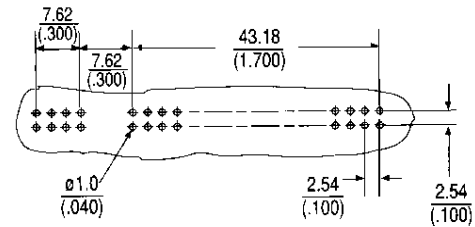
TEMPERATURE RATING: -55°C TO 125°C



Ordering Information

CATALOG NUMBER	A
609-BX446	3.71 (.146)
609-BX446-2	2.5 (.098)

Recommended Printed Circuit Board Layout



**FEMALE BX CONNECTOR
44 POSITION
SOLDER TAILS**



PHYSICAL PROPERTIES

INSULATION MATERIAL: Glass filled thermoplastic rated UL 94V-0

COLOR: Blue

CONTACTS: Copper alloy, 30 microinches minimum gold over 50 microinches nickel in contact zone, tin/lead over nickel on solder tails

ELECTRICAL PROPERTIES

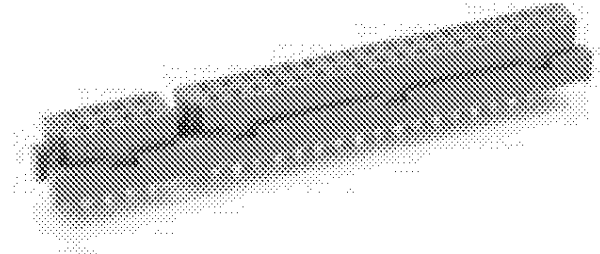
CURRENT RATING: 3 Amps

INSULATION RESISTANCE: >1 x 10⁹ Ohms @500 VDC

DIELECTRIC STRENGTH: > 1000 VDC at sea level

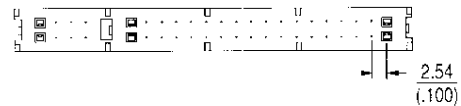
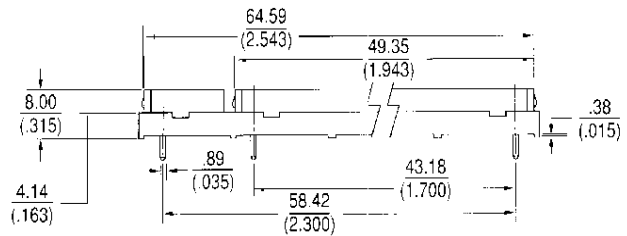
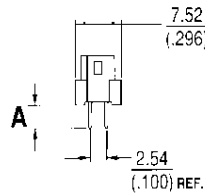
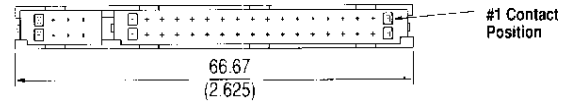
ENVIRONMENTAL PROPERTIES

TEMPERATURE RATING: -55°C TO 125°C



Ordering Information

Part Number	Lead Length
609-BX440	3.71 (.146)
609-BX440-2	2.5 (.098)



Recommended Printed Circuit Board Layout

