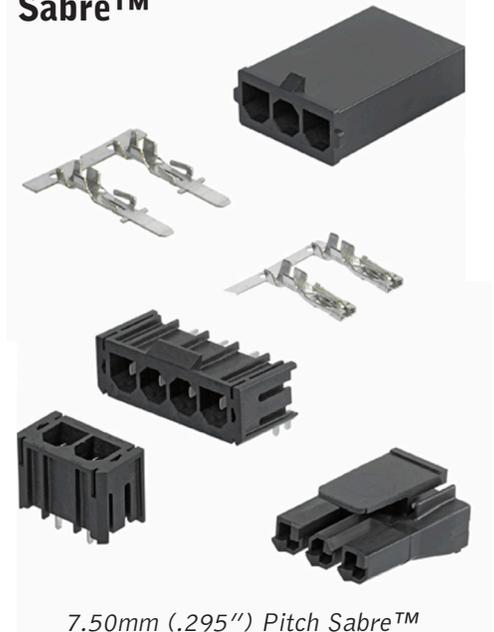The Sabre flat blade connector system is designed for high current, high vibration applications which require design flexibility for wire-to-wire, and wire-to-board configurations. Sabre products are ideal for applications requiring a current rating up to 18.0A per pin with a 600 volts rating at 30°C T-rise.

Sabre is designed with an integral TPA feature which can be optionally activated by the customer. This feature redundantly locks the terminal to the housing to prevent terminal blackout in high vibration applications. Sabre is designed with fully isolated terminal silos, positive housing locks and polarized plugs and receptacles. Sabre is UL recognized and CSA certified. All components are lead free, halogen free and RoHS compliant. There are also glow wire compatible versions available.
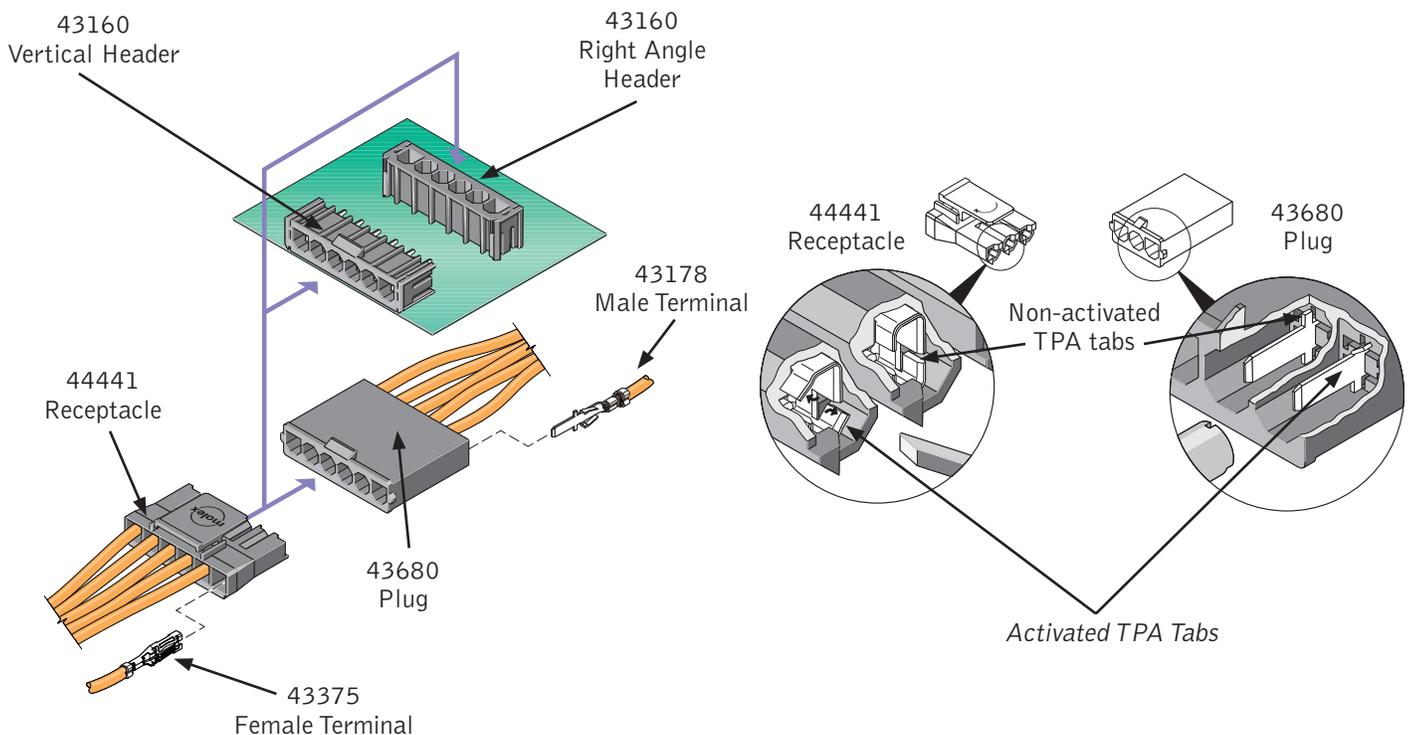
Sabre connectors are available in single-row 2 to 8 circuit options and accept a wide range of wire gauges, insulation thicknesses and has a through-hole PCB termination style available for several standard PCB thicknesses.

7.50mm (.295") Pitch Sabre™

7.50mm (.295") Pitch Sabre™
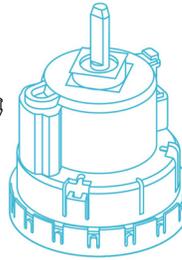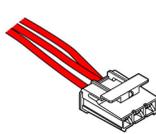
FEATURES AND BENEFITS

- Designed for high-current and high voltage applications with a current rating up to 18.0A at 600V
- Complies with UL 1977 finger-proof access requirements to prevent accidental electric shock
- Terminal design incorporates a .125" (3.18mm) wide blade tab that mates to the industry standard solderless style 0.125" NEMA tabs
- Integral Terminal Position Assistance (TPA) located on both male and female terminals to prevent terminal back out and is ideal for high-vibration applications. Activation is optional
- Positive latch on receptacle housing prevents accidental disengagement with mating plug or header

- Anti-tangle latch on receptacle housing prevents accidental receptacle latch breakage and reduces tangling during harness assembly
- Blade-terminal design has four independent points of electrical contact providing a more reliable electrical connection than circular style terminals
- Right-angle or vertical header configurations offer greater flexibility to match customer board-design requirements
- Metal clips are available on headers for 1.75mm, 2.36mm, and 3.17mm PCB thicknesses to help secure headers to common PCB thicknesses

43160 Vertical Header

43160 Right Angle Header

43178 Male Terminal

44441 Receptacle

43680 Plug

43375 Female Terminal

44441 Receptacle

43680 Plug

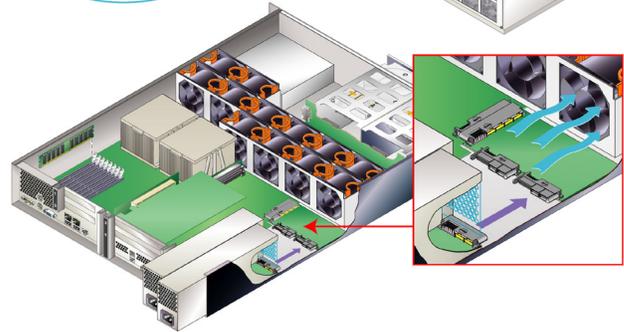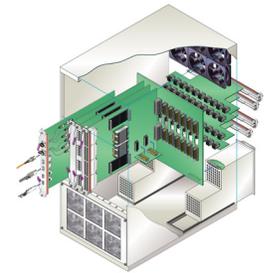Non-activated TPA tabs

Activated TPA Tabs

APPLICATIONS

- Networking, Telecom and Storage Equipment
  - Hubs and routers
  - Servers
  - Power supplies
  - Fan trays
- Medical equipment
  - Diagnostics
  - Patient monitoring
- Business Equipment
  - Printers, scanners
- Vending and Gaming
  - Scoreboards
  - Electronic games
- Appliance/White Goods
  - Freezers, refrigerators
  - Washing, drying
- Automotive and Transportation
- Military/Aerospace (COTS)

- HVAC
- Industrial
- Security
- Solar
- Lighting

7.50mm (.295″) Pitch Sabre™

ORDERING INFORMATION

Terminals

Series No.	Description	Mates with/Use with	Material	Circuits/Wire Gauge	Features and Benefits
43178	Male Terminal	Mates with 43375 Terminals Used in 43680 Housings	Tin Plated Brass	14 to 20 AWG Single and Double Crimp	• Used in wire-to-wire applications only • Patented integral Terminal Position Assurance (TPA) on mated male and female terminals. Activation is optional. Virtually eliminates terminal backouts from housing
43375	Female Terminal	Mates with 43178 Terminal and 43160 Headers Used in 44441 Housings			• Used in wire-to-wire and wire-to-board applications • Patented integral Terminal Position Assurance (TPA) on mated male and female terminals. Activation is optional. Virtually eliminates terminal backouts from housing

Housings

43680	Plug Housing	Mates with 44441 Use with 43178 Terminals	UL 94V-0	2-6, 8 Circuits	• Fully isolated towers gives 600V rating • Polarized housings assure proper mating • Positive latch system guards against accidental disengagement of housings
44441	Receptacle Housing	Mates with 43680 and 43160 Use with 43375 Terminals			

PC Board Headers

43160	Vertical Header	Mates with 44441	UL 94V-0	2-6, 8 Circuits	• Glow Wire compatible • Optional PCB retention clips • Accommodates 1.57, 2.36, and 3.18mm (.062, .093, and .125″) for through-hole processing
43160	Right Angle Header				
46007		Mates with 44441 Complies with UL 1977 finger proof access requirements			

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