



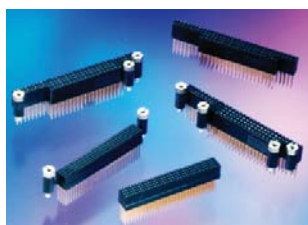
Connectors

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Energy, Power, and Utility Connectors	Section 9
Fiber Optic Connectors	Section 10
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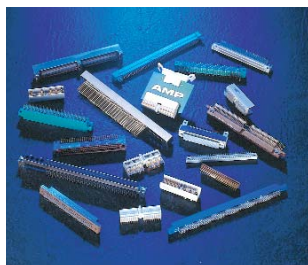
AMPMODU System 50 & 50/50 Grid Connectors

- AMPMODU 50/50 Grid -- High-density, surface mount, board-to-board, .050" x .050" (1.27 x 1.27) centerline two-row connector system. Parallel stack heights of .250" (6.35), .320" (8.13) and .390" (9.91).
- AMPMODU System 50 -- High-density, board-to-board, single- and double-row connector system on .050" x .100" (1.27 x 2.54) centerline. Vertical and right-angle PCB mounted post headers are available. Unshrouded headers allow close stacking of daughter cards.
- AMPMODU .025" (0.64) Square -- Provides a wide variety of board-to-board interconnections on a modular .100" x .100" (2.54 x 2.54) centerline configuration. Includes breakaway headers which mate to right-angle and vertical receptacles for right-angle and vertical PCB stacking. Thru-hole, surface mount, and compliant pin styles are available.
- AMPMODU Two-Piece PCB Connectors -- A .100" x .100" (2.54 x 2.54), two- and three-row system produced in 30 through 300 positions in vertical and right-angle configurations. Built-in guides provide alignment before contact engagement.
- AMPMODU .031" x .062" (0.79 x 1.57) -- Rugged board-to-board system comprised of vertical and horizontal PCB mount receptacles that mate with vertical and right-angle posted headers. Contact current rating is 5 A max. per contact.
- Order Catalog 1307819, "AMPMODU Interconnection System"



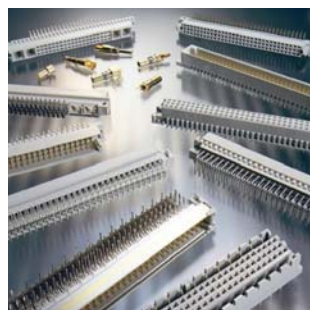
AMP PC/104 and PC/104-Plus Connectors

- Press-fit design -- eliminates hand soldering. "Flat-rock" insertable -- no need for complex insertion tooling
- Unitized PC/104 connector assembly -- eliminates two piece (64 pin and 40 pin) configuration
- Integral board spacers with captive hardware -- eases and improves assembly efficiency while minimizing stocked hardware
- Optional integral standoffs minimize customer's system assembly time
- Compliant with PC/104 & PC/104-Plus standards
- Order Catalog 1307819, "AMPMODU Interconnection System"



MIL-C-55302 PCB Connectors

- Meets various military specifications and DSCC requirements for 2-piece printed circuit board connectors
- Choice of .050", .075" and .100" centerline spacing
- Contacts duplex plated military gold over nickel
- Housings made of high temperature thermoplastic material
- Connector designs for surface mount, solder, wrap-type, and press-fit tail terminations
- Uses reliable four-beam box contact design
- Mini-Box (.050) connectors are available in 2-row configurations from 20 to 200 positions and uses the reliable 4-beam box contact and 4-row configurations up to 320 positions
- Box contacts on .075" and .100" centerline spacings are available in 2, 3 and 4-row configurations with pin counts up to 300 contact positions
- Order Catalog 1308940, "Aerospace Industry"



AMP Eurocard Connectors per DIN 41612 & IEC 603.2 Specifications

- Types B, C, D, F, G, M, Q and R product offerings
- ACTION PIN and solder post product offerings
- Standard DIN sizes, half sizes and expanded sizes offered
- Order Catalog 82721, "Eurocard Connectors"

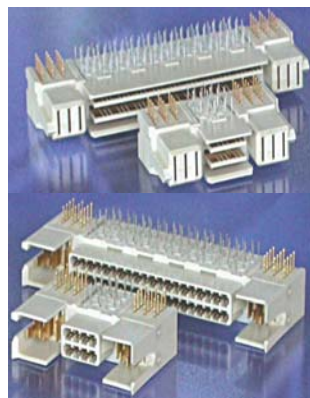


AMP-HDI Series 100 Connectors

- Two-, three- and four-row connectors on 2.54mm grid
- High pin count through 684 positions
- Four beam box style contacts for high reliability
- ACTION PIN press-fit contacts or solder posts on pin assemblies
- Vertical and right-angle pin assemblies
- Vertical and right-angle receptacle assemblies
- Full complement of power, guidance, mating and mounting hardware
- Hybrid versions available for power and coaxial connections
- Military versions available

AMP Twin Beam Connector (TBC) & TBC Plus

- Three-, four, five- and six-row connectors on 2.54mm grid
- High pin count through 1200 positions
- Dual beam contacts for redundant, reliable connections
- ACTION PIN press-fit contacts or solder posts on pin assemblies
- Vertical and right-angle pin assemblies
- Right-angle receptacle assemblies
- Full complement of power, guidance, mating and mounting hardware
- Hybrid versions available for power and coaxial connections



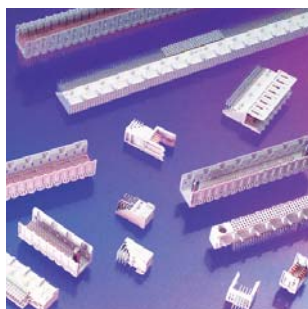
AMP Z-Dok and Z-Dok + Docking Connectors

- Co-planar and inverted co-planar system
- For high speed differential pair connections
- 8 through 72 differential pairs available
- Based on Tyco Electronics' Tri-Q contact system
- 2 through 6 utility contacts per connector
- 5 Levels of sequencing available
- Ideal for "personality modules"
- Order Catalog 1773095, "High Speed Backplane Connectors"



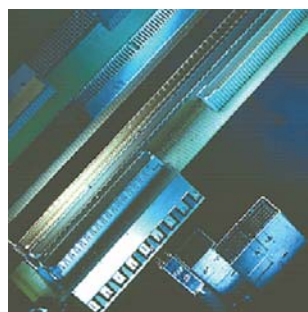
AMP Z-PACK 2mm HM and Compact PCI Connectors

- Hard metric 2mm pitch in accordance with IEC 917 and IEC 61076-4-101
- Modular units give flexible configurations
- Extensive range of signal, power, coaxial, and fiber board-to-board and cable-to-board connections
- Available in 4, 5, 8, and 12-row configurations
- Available in shielded and unshielded for board and cable versions
- Order Catalogs 65911, “Z-PACK 2mm HM Interconnection Catalog” and 1307224 “Compact PCI Catalog”



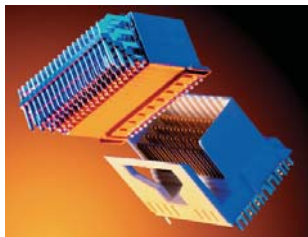
AMP Z-PACK 2mm FutureBus+ Connectors

- Product offering is 4 and 5 row on 2mm x 2mm circuit grid
- Available sizes of 24 through 264 positions in increments of 24 for four row
- Available sizes of 30 through 330 positions in increments of 30 for five row
- Modular design for signal and power modules with end-to-end stackability
- Choice of solder leads or press-fit leads
- Flat rock receptacle tooling
- Compliant to IEC 1076-4-0X (48B)
- Cable connectors available – 4 and 5 row shielded/unshielded versions
- Order Catalog 65358, “Z-PACK 2mm FB Connectors”



SIPAC Connectors

- Backplane interconnect for use in telecommunications equipment – switches, servers and base stations
- Standardized according IEC Standard 1076-4-100
- 2.5 mm contact pitch
- Male & female connectors in proven press-fit technology
- Male & female connectors without or with shielding
- Male contacts with different mating lengths available
- Modularity offers high degree of flexibility. Module sizes of 1 to 10 SU (1 System Unit = 25 mm)
- External coding with pre-mating ground contact and PCB centering
- Adapter bridge (shroud) for cable connectors
- Shielded cable connectors in 1/2 SU, 1 SU, 2 SU and 4 SU



DensiPac Connectors

- High density backplane connector
- Up to 576 pins per 100 mm
- First fully surface mount backplane connector system
- Flexible system; placement on both sides of card and backplane possible
- SMT female connector on the cards
- SMT or press-fit male connector on the backplane
- Contact grid 1.25 x 2.5 mm
- Single side placement density (pins per 100 mm):
 - 2 Row – 144
 - 4 Row – 288
- Double side placement density (pins per 100 mm):
 - 2+2 Row – 288
 - 2+4 Row – 432
 - 4+4 Row – 576

Board-to-Board — Backplane, High Speed



AMP Z-PACK HS3 Connectors

- High speed connector designed for both single ended and differential signals
- Capable of supporting data rates of 6.2+ Gb/s
- Modular connector system for flexible system design
- Contact density up to 100 high speed signals per 25mm of board edge
- Product family includes right-angle board-to-board, mid-plane board connectors and mezzanine board connectors
- Press-fit termination to PC boards
- Meets Telcordia requirements
- Order Catalog 1773095, “High Speed Backplane Connectors”



AMP Z-PACK Stripline 100 Connectors

- For high speed applications, both single ended and differential
- Stripline technology for controlled impedance
- Capable of supporting data rates up to 2.5 Gb/s
- 40 high speed lines per 2.54mm
- Discrete connector sizes for 100 through 280 positions
- Modular connector version for 120 through 820 positions
- Product family includes right-angle board-to-board connectors and co-planar board connectors



AMP Z-PACK HM-Zd Connectors

- For high speed differential application
- Capable of supporting data rates of 10+Gb/s
- Modular connector system designed as an extension to the Z-PACK 2mm HM connector family
- Contact density up to 80 signals (40 differential pairs) per 25mm of board edge
- Press-fit termination to PC Boards
- Product family includes right-angle board-to-board connectors, mid-plane board connectors, co-planar board connectors, mezzanine board connectors and cable-to-board connectors
- Connector footprint optimized for improved electrical performance and ease of trace routing
- Connector footprint supports Quad Routing techniques to improve signal integrity while reducing PCB application costs
- Meets Telcordia requirements
- Order Catalog 1773095, "High Speed Backplane Connectors"



AMP MultiGig RT Connector System

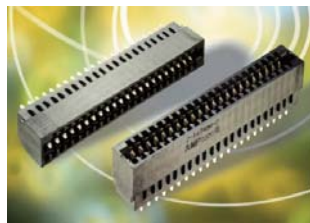
- Available in three tiers, which are differentiated by performance/density
- Up to 141 high speed signal lines per inch
- Up to 10+Gbps data rates
- Pinless backplane solution
- For 100 ohm differential systems, and 50 ohm single-ended
- Daughtercard utilizes a PCB construction
- Capable of full customization through the arrangement of the PCBs within the daughtercard connector
- 3 Levels of sequencing within the signal field, and 3 levels within the power system
- Future plans include components, active and passive, within the daughtercard connector
- Order Catalog 1773095, "High Speed Backplane Connectors"

Board-to-Board — Card Edge



AMP PCI, PCI Express Connectors

- PCI connectors that meet the PCI Express Specifications
- Both 32 bit and 64 bit available
- A full range of position sizes from 15 through 106 dual positions
- Available in both through-hole and surface mount
- PCI Express for the newly emerging Serial PCI Bus market
- Available in x1, x4, x8, x16 sizes
- Thru-hole contacts, with or without holddowns
- Future plans for right-angle and vertical press-fit
- Order Catalog 1654080, "Card Edge Connectors"



AMP PACE Connectors

- Uses ACTION PIN press-fit compliant-pin contact (eliminates soldering)
- Insertion tool is required
- Post centerline spacings of: .100" x .100" (2.54 x 2.54); .100" x .200" (2.54 x 5.08); .125" x .125" (3.18 x 3.18); .125" x .250" (3.18 x 6.35); .156" x .200" (3.96 x 5.08)
- 10 to 60 positions
- Individual contacts can be replaced without removing the housing
- Unique beam contact design accommodates and compensates for daughtercard warp and stress to provide reliable performance
- Contact tip alignment strip provides straight and stable pin alignment for damage-free entry into the PCB
- Order Catalog 1654080, "Card Edge Connectors"



Next Generation AMP PACE Connectors

- Same overall dimensional envelope as AMP PACE connector
- Solder-free press-fit card edge connector uses "Eye of the Needle" low insertion force contacts
- Flat-rock tooling compatible (no special assembly tooling required)
- .100" x .200" (2.54 x 5.08) centerline
- 10 to 60 positions
- Durability of 100 cycles mating and unmating
- Order Catalog 1654096, "Next Generation AMP PACE Card Edge Connectors"



AMP High Density Press-Fit Card Edge Connectors

- High density .050" (1.27) centerline spacing
- Accepts multi-layer .093" (2.36) daughtercards
- 20, 30, 40, 50, and 60 dual positions
- Contacts are staggered to achieve low insertion force
- Unique pin geometry allows for even distribution of forces reducing axial pin rotation and preserving perpendicularity to the PCB
- Order Catalog 1654080, "Card Edge Connectors"



AMP Crimp Snap Twin Leaf (Wire-to-Board) Connectors

- Connector housings accept crimp, snap-in 16-28 AWG contacts on .100" (2.54), .125" (3.18) or .156" (3.96) centers for wire-to-board connections
- Contacts bifurcated for reliable, redundant contact; single-leaf version available for higher contact normal forces
- High-speed automatic machine crimp terminations provide uniform reliability at lowest applied cost
- 6-50 positions
- Order Catalog 1654080, "Card Edge Connectors"

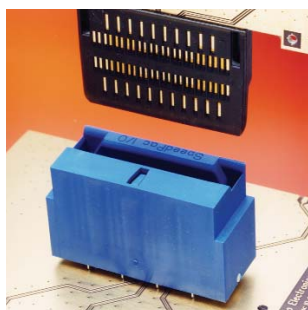


AMP High Speed Standard Edge Connectors

- High speed, high density, .050" pitch connector
- Bussed ground contact, offset .025" from each pair of contacts
- Ground contact allows each of the signal contacts to be operated at high speed without sacrificing density
- Available in up to 130 dual positions, with 130 ground contacts
- Thru-hole soldertails
- Order Catalog 1773095, "High Speed Backplane Connectors"

AMP SEC-Z Connectors

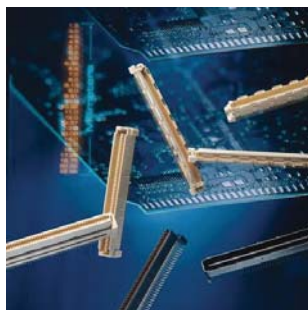
- In-line, 0.050" pitch connector with 4 contacts per pitch
- High performance card edge
- Available in up to 120 Quad positions (480 contacts)
- Thru-hole soldertails
- Order Catalog 1773095, "High Speed Backplane Connectors"



SpeedPac I/O Connectors

- Card edge style connector
- Adopted as the I/O interface for Infiniband applications
- Intended for high speed applications of 5 Gb/s or higher per line
- Low Insertion Force (LIF): Self-actuation at mating and unmating
- Accepts card thicknesses of 1.6 and 2.4 mm
- Up to 28 differential pairs, arranged in two rows and 18 low speed or power contacts
- Form factors of 1X, 4X, and 12X
- Order Catalog 1773095, "High Speed Backplane Connectors"

Board-to-Board — Mezzanine



AMP FH Fine Pitch Mezzanine Connectors

- Available with .5mm, .6mm, .8mm, and 1.0mm pitch
- Available from 40 through 440 positions
- Stack heights of 4mm through 16mm
- Surface mount attachment
- Ground shields are available with the "Giga" option
- Packaged in tubes, trays, and tape & reel
- For automatic and hand placement
- Limited right-angle versions available
- Order Catalog 889092 "Fine Pitch Stacking Connectors" and Catalog 124962, "Representative Terminals and Connectors"



AMP Z Stack Connectors

- Board-to-board stacking connectors with contacts on 0.6 mm centerline
- Stacking heights of 8, 12 and 16 mm
- Both housing and contacts are hermaphroditic
- Reliable two-point contact design
- Compatible with automated mounting equipment
- Order Catalog 124962, "Representative Terminals and Connectors"



AMP Micro-Stack Connectors

- Fine-pitch (0.6mm) 80-pin connector
- Stacking heights of 30 mm, 19 mm, and 16.75 mm
- Two-point contact structure between the roll sides provides high contact reliability for tough factory environments
- Current Rating: 0.5A
- Voltage Rating: 10VAC
- Mating and Unmating Cycles: 100 Cycles
- Order Catalog 124962, "Representative Terminals and Connectors"

Board-to-Board — Mezzanine, High Speed



AMP Micro-Strip Connector System

- Available in 40 through 240 positions
- .050" pitch, two-row connector
- Micro-Strip ground plane per each 20 positions for a controlled 50 ohm impedance
- Pin and socket contact system for high reliability
- Thru-hole soldertails and press-fit contacts available
- Vertical and right-angle versions for mezzanine and right-angle solutions
- Cable assemblies available
- Order Catalog 65194, "High Speed Controlled Impedance, Two-Piece Connectors"

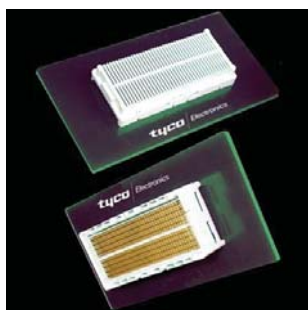


AMP MICTOR Connectors

- Available in 38 through 266 positions
- 0.025" pitch, two-row connector
- Micro-Strip ground plane per each 38 positions for a controlled 50 ohm impedance
- Stack heights from 6.6mm to 31.90mm
- Redundant contact system for high reliability
- Surface mount attachment
- Vertical and right-angle versions for mezzanine, right-angle and co-planar solutions

AMP MICTOR SB Connectors

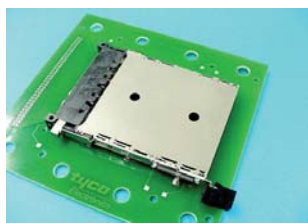
- Available in 40 through 300 positions
- 5mm and .8mm pitch, two-row connector
- Micro-Strip ground plane for a controlled 50 ohm impedance
- Stack heights from 5mm through 30mm
- Surface mount attachment
- Order Catalog 65194, "High Speed Controlled Impedance, Two-Piece Connectors" for both AMP MICTOR connectors



AMP STEP-Z Grid Array Stacking Connectors

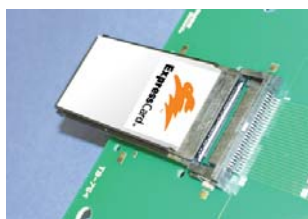
- Available in 104, 200, and 296 positions
- 1.0mm x .65mm pitch
- 4:5 signal to ground ratio for high performance
- Stack height from 15mm through 35mm
- Dual beam contact system for high reliability
- Surface mount with BGA attachment
- Proven capable of 10 Gbps data rates
- Order Catalog 65194, "High Speed Controlled Impedance, Two-Piece Connectors"

Card Products — PCMCIA and ExpressCard Technology



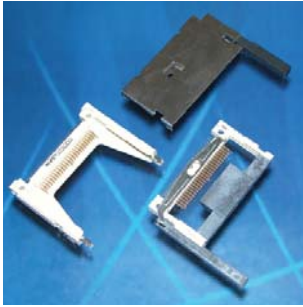
AMP PCMCIA Compliant Connectors

- Conforms to PCMCIA standard
- Full solution available (header, receptacle, frames and I/O)
- Card bus and non-Card Bus versions
- Numerous ejector options
- Order Catalog 124962, "Representative Terminals and Connectors"



AMP Connectors for ExpressCard Technology

- Next generation PCMCIA
- Full solution available (header, receptacle, frames and I/O)
- Combination solutions available with PCMCIA
- Order Catalog 1654898, "Connectors for the ExpressCard Technology"



AMP Connectors for Compact Flash Card

- Conforms to CFA specification
- Full solution available (header, receptacles and frames)
- Low profile product available for height constrained applications
- Order Catalog 1773086, "Compact Flash"



AMP Memory Stick Connectors

- Low profile
- High reliability push/push style ejection
- Top and bottom PCB mounting available

Card Products — Smart Card



AMP Smart Card Connectors

- Thru-hole, panel mount and surface mount configurations available
- Full size card and SIM connectors available
- Gold-plated contacts for high durability
- Order Catalog 1242163, "Smart Card Connectors"



N Series Connectors

- Medium sized connector for high-voltage applications
- Suited for critical applications and environments
- Performance to 11 GHz (commercial) and 18 GHz (hi frequency)
- Intermateable with MIL-C-39012, IEC 169-16 and CECC 22 210 connectors
- Applications in cellular & PCS base stations, telephony, broadcast, military and instrumentation
- Available in cable mounted, right-angle, bulkhead, panel mount and Adapter options
- Multiple terminations styles covering Crimp, Mil Clamp, Pressure Sleeve and Semi-rigid versions
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only); 1308940, "Products for Aerospace & Defense" (AMP military qualified)



7-16 Connectors

- For high power applications where a more rugged interface is required
- Performance to 7 GHz
- Cellular base station, antenna and broadcast applications
- Shells are machined brass
- Medium to high power, max. proof voltage 2.7kV
- Silver and White Bronze plating to reduce intermodulation (> -160dBc can be achieved with certain cable configurations)
- Fully intermateable with connectors to CECC 22 190 and IEC 169-4
- Offering includes straight and right-angle plugs and jacks, panel and bulkhead jacks, crimp and solder contacts
- Order Catalog 1307191, "RF Coaxial Solutions for Communications"



Lightning and EMP Protection

- Developed for cellular infrastructure, these connectors offer protection against high voltage pulses caused by lightning strikes
- Broadband performance dc to 3 GHz
- Available in ¼ wave stub tuners for equipment protection and surge arrestors for line protection
- Developed for GSM, DCS 1800, and PCS 1900 systems
- Standard interfaces are SMA, Type N, and 7-16 Series, which facilitates easy field retrofits
- Surge arrestors incorporate field replaceable Gas Discharge Tube (GDT) technology
- Low VSWR of < 1.2:1



BNC Connectors

- Miniature connector series with bayonet style coupling mechanism
- Available in both 50 and 75 Ohm versions
- Performance through 4 GHz
- Broadest overall offering of product in industry (cable applied, PCB, receptacles, adapters, military qualified [MIL-C-39012])
- Multiple terminations styles covering Crimp, Mil Clamp, Pressure Sleeve and Semi-rigid versions
- Thru-hole, compliant pin, press-fit and surface mount options
- Industry standard interface (commercial and military product)
- Bayonet lock coupling for reliable, quick connect/disconnect
- Applications include broadband, networking, signal management, video distribution (including HDTV), instrumentation, medical, transportation and military
- Low cost commercial and economy designs available through ZDC series
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only)



Mini BNC Connectors

- Smaller version of the popular BNC series connector with same bayonet coupling mechanism and performance
- Performance through 2 GHz
- Same high performance currently found in standard BNC series, but offers 40% more interconnects in the same space
- Utilizes the same PCB footprint as standard BNC on the jack side, providing a drop-in replacement for DS3 telco applications
- Uses standard BNC industry tooling
- Ideal for telecommunications and broadband applications
- Order Flyer 1773041, "Mini BNC Connectors"



TNC Connectors

- Lightweight miniature connector operating between DC to 11GHz
- Machined body and contact with PTFE dielectric for high reliability
- Threaded coupling to ensure positive engagement in 50 & 75 ohm impedance
- Interface provides electrical continuity in vibration-intensive and shock application
- Fully intermateable with all standard TNC Plug, Jack, Bulkhead and Adapter styles
- Available in Nickel/Gold and Silver/Silver Plating Options
- Military qualified versions available
- Terminations types include Crimp, Solder Cup and Mil Clamp and Pressure Sleeve
- Applications include radar, medical, mil-aero & instrumentation
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only) 1308940, "Products for Aerospace & Defense" (AMP military qualified)



UHF Connectors

- Miniature non-constant impedance threaded connector series for applications up to 500 MHz
- Precision UHF coupling with interlocking serrations prevents accidental unmating
- Fully intermateable with all standard UHF Plug, Jack, Bulkhead and Adapter styles
- Available in Nickel/Gold and Silver/Silver Plating Options
- Terminations types include Crimp, Solder Cup and Solder Clamp
- Machined body and contact with PTFE dielectric for high reliability
- Applications include instrumentation, medical, military & instrumentation
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only)



FME Connectors

- Miniature 50 Ohm between series connector Adapter
- Threaded style coupling mechanism eliminates accidental disconnection
- Standardized coupling for a broad range of industry standard interfaces
- Frequency operation of up to 2GHz
- Standard series available as Plugs, Jacks, Inline Plugs, Bulkhead Plugs
- Adaptors available in many widely used Interface styles
- Nickel plated body; Gold contact & PTFE dielectric for multi-uses
- Applications include instrumentation, medical, test, military & telematics
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation"



MHV Connectors

- Miniature High Voltage 50 ohm connector series
- BNC style bayonet coupling for fast connect / disconnect
- Extended dielectric for unmated electrical protection
- PTFE Dielectric provides wide operating range between -65°C to +165°C
- Frequency performance to 300 MHz at 1600 V
- Rated to 5 kV rms test voltage in mated condition
- Available as Straight Solder Clamp Plug and Bulkhead Socket
- Plating options include Nickel/Gold and Silver/Silver
- Applications include instrumentation, medical, test and military
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation"



DIN 1.0/2.3 Connectors

- Subminiature connector series for high density board-to-board and I/O connections on transmission, access, mobile and data communication equipment
- Performance through 2 GHz (at 75 ohms) and 10 GHz (at 50 ohms)
- Available with standard threaded and slide-in coupling, and an innovative latching (quick lock) coupling mechanism which allows for quick and high density applications (8mm pitch)
- Meets IEC 169-29, DIN 47275 and CECC 22 230 interface and performance specifications
- Full crimp cable termination
- Adapters available to DIN series 1.6/5.6
- Order Catalog 1307191, "RF Coaxial Solutions for Communications"



DIN 1.6/5.6 Connectors

- High performance version of DIN 1.0/2.3 connector series
- Suitable for transmission of high bit rates
- 75 ohm connector series with impedance matched performance through 8 GHz
- Commercial versions meet IEC 169-13 and CECC 22 240 interface and performance specifications
- Reliable and cost-effective IDC cable termination
- Screw, snap-on, slide-in and latching (quick lock) coupling available
- Adapters to Series 1.0/2.3 and BNC (both 75 ohm)
- Order Catalog 1307191, "RF Coaxial Solutions for Communications"



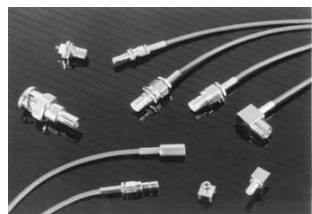
SMA Connectors

- Subminiature connector with threaded coupling mechanism designed for frequency applications of DC to 18 GHz
- Commercial versions meet the electrical and mechanical requirements of MIL-C-39012
- Military qualified versions (MIL-C-39012) are available
- Available in stainless steel, brass and zinc die-cast materials
- Flexible cable performance 6 GHz for brass, 12.4 GHz for stainless and 18 GHz for semi-rigid cable
- Plating options include Gold, Passivated, Nickel and White Bronze for corrosion resistant, non-magnetic plating & low intermodulation needs
- Termination options include Crimp, Solder Clamp, Mil Crimp and Direct Solder
- Uses industry standard crimp tools and processes
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only); 1308940, "Products for Aerospace & Defense" (AMP military qualified)



QMA Connectors

- Snap-on version of the SMA connector series eliminates the threaded coupling and significantly reduces assembly time
- Same performance as standard SMA through 6 GHz
- No coupling nut required. Positive snap-on interface facilitates quick assembly and provides for denser packaging
- Intermateable with competitive product
- Retention force of mated pair is 60 N minimum
- Broad range of standard configurations including PCB, panel mount, flex and semi-rigid cable, and adapters
- Ideal for communication and industrial applications
- Order Flyer 1654881, "QMA Connectors"



SMB and Type 43 Connectors

- Subminiature SMB series offers snap-fit coupling mechanism for quick connect/disconnect capability
- Smaller alternative to SMA
- Available in Cable, Bulkhead and PCB styles, frequency DC to 4 GHz
- Both 50 Ohm and 75 Ohm versions available in standard outline
- Optional tape & reel packaging for auto SMD placement
- Applications include GPS, telephony, CATV, control & instrumentation
- Low cost assembly using crimp center contact
- Type 43 (75 Ohm SMB) offers a positive lock interface to a standard 75 Ohm jack
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation" (AMP & Greenpar); Catalog 1307191, "RF Coaxial Solutions for Communications" (AMP only)



Switching Connectors

- Mobile phone connector which provides signal switching function between internal phone antenna and external car antenna
- System used for mating the hand set into the cradle of the car kit for hands-free operation
- Performance to 2.4 GHz
- Compact surface mount switch offered in three main sizes: 3.5, 4.5, and 6 mm high
- Excellent signal transmission due to short distance between power elements and antenna or switch, no internal cables
- Floating system of mated pairs are able to compensate for tolerances of +/- 1mm radial and 0.6 mm axial
- Smaller connectors that utilize MID technology for testing applications up to 6 GHz are available



SMC Connectors

- Sub-miniature 50 ohm light weight connector series
- Precision threaded coupling provides improved electrical performance and reduces accidental disconnection
- Standardized coupling conforms to the interface dimensions of MIL-STD-348 for SMC
- Provides intermateability with other connector suppliers up to 10GHz operation
- Available as Plug, Jack, Bulkhead, Adaptors
- Terminations options include Crimp, Solder Clamp and PCB Styles
- Precision machined gold plated body and contact with PTFE dielectric
- Applications include instrumentation, medical, military & instrumentation
- Order Catalog 1308830, "Greenpar RF Connectors"; Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation"



MCX Connectors

- Snap on subminiature connector series conforming to IEC 60169-36 & CECC 22220 specifications
- Lightweight micro-miniature connector operating between DC to 6 GHz
- Offers 30% space saving reduction over SMB / SMC connectors types
- Applications in GPS, automotive, wireless communications & Instrumentation
- Available in a variety of mounting styles and cable options
- Brass and zinc die-cast bodies, gold and nickel plating available
- Order Catalog 1308830, "Greenpar RF Connectors", Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation"



MMCX Connectors

- 35% smaller than MCX, this connector series is used in board-to-board and cable-to-board applications where space is a driving issue
- Excellent performance to 6 GHz
- PCB through-hole, surface mount, edge launch, flexible and semi-rigid cable designs
- Tape and reel packaging for high volume assembly
- Non-slotted outer contact provides for minimal RF leakage
- Meets interface requirements of CECC 22 340
- Offers one of the smallest conventional crimp terminations without special tooling
- Order Flyer 1654729, "AMP MMCX Connectors", Catalog 1308830 "Greenpar RF Connectors", Catalog 1654741 "Industrial & Commercial Products - Machinery & Instrumentation"



OSP and OSSP Connectors

- Miniature modular blindmate series with interface for multiple interconnects.
- Performance to 22 GHz (OSP) and 28 GHz (OSSP)
- Module-to-module and module-to-motherboard rigid mount applications; rack and panel, and module-to-motherboard float mount applications
- Space saving designs for multiple mate applications: .325" min. between connectors recommended for rigid mount, and .510" min. recommended for float mount
- Axial misalignment from .060" min., and radial from +/- .020" on float mounts and +/- .004" on rigid mounts
- No special application tooling required; industry standard
- Order Catalog 1307191, "RF Coaxial Solutions for Communications"



Board-to-Board Blindmate Connectors

- Small board-to-board, blindmateable interconnect used where space and cost are driving issues
- Modular board-to-board (mother/daughtercard) blindmate product for base station, cellular handset, and wireless communications systems
- Low profile, one-piece construction available in three sizes for varied board spacing: 14mm, 10mm, and 6.65mm
- Large radial (+0.8mm) and axial (+1.0mm) misalignment
- No mating connector means low applied material and assembly costs
- Surface mount design for standard pick and place compatibility
- Excellent performance up to 4 GHz



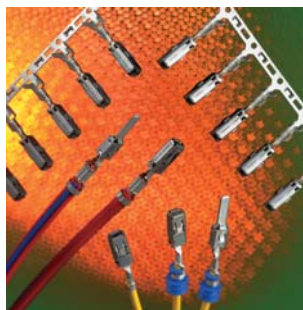
OSMP Connectors

- Performs to 40 GHz
- Small form factor
- Push-on style, blind mate
- Conforms to MIL-STD 348, in compliance with DSCC 94007 and 94008
- Order Catalog 1308940, "Products for Aerospace & Defense"



SSMA Connectors

- Smaller version of SMA for reduced packaging requirements
- SSMA series allows operation to 38.0 GHz
- For Flexible cable or semi-rigid coax cable
- Order Catalog 1308940, "Products for Aerospace & Defense"



AMP MCP (Multiple Contact Point) System

- Contact system for the automotive industry
- Available contact sizes: 1.2, 1.5, 2.8, 4.8, 6.3 and 9.5mm
- Tab and receptacle contacts in two-piece design with steel spring
- Contacts for sealed and unsealed applications
- Range of wire sizes from 0.2mm² (AMP MCP 1.5K) up to 16mm² (AMP MCP 9.5)
- Base material with high current carrying capacity
- Contacts for high-vibration load
- Secondary locking possible from four directions
- Order Catalog 889780, "Contact Systems"



AMP Circular Contact Systems

- 1.5 and 2.5 mm diameter systems available
- ISO 15170 connector 2.5 mm system
- 31 position mixed circular connector 1.5 and 2.5 mm system
- Order Catalog 1654300, "Products & Technologies"



AMP Micro Quadlok Contact System

- Available contacts: MQS, MQS 1.2, MQS 1.5, Micro Power Quadlok, Power Quadlok
- Contact system for the automotive industry
- Contact thickness 0.63 mm; available contact sizes: 0.63, 1.2, 1.5, 2.8, and 5.2mm
- Tab and receptacle contacts in two-piece design with steel spring
- Contacts for sealed and unsealed applications
- For signal and power applications; range of wire sizes from 0.14 mm² (MQS) up to 4 mm² (MPQ, PQ)
- Two independent contact lockings
- Common level for 1st and 2nd lock; family design; easy combination of different contacts and wire sizes in one housing (hybrid housings)
- Current capacity up to 45A
- Additional versions: FFC, clean body, short circuit, IDC
- Order Catalog 1307999, "Micro Quadlok Interconnection System"



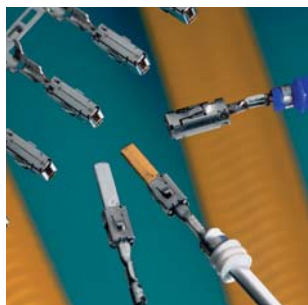
AMP Timer Contact System

- Connector system for the automotive industry
- Available contacts: Micro Timer I, Micro Timer II, Micro Timer III, Junior Timer, Junior Power Timer, Standard Timer, Standard Power Timer, Maxi Power Timer
- Timer contacts are extensively used in the automotive industry
- Suitable for tabs 1.5, 2.8, 4.8, 5.8, 6.3 and 9.5 mm wide
- Power versions in two-piece design with steel spring
- Contacts for sealed and unsealed applications
- Range of wire sizes from 0.12 mm² up to 10 mm²
- Order Catalog 889759, "Timer Connectors"



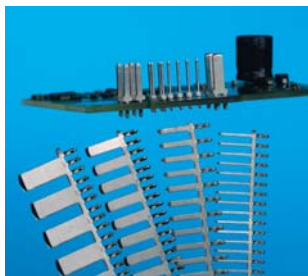
AMP Flat Contact System

- Contact system for the automotive industry
- Contacts mate with a wide variety of receptacle contacts (e.g., Timer and AMP MCP contacts)
- Available contact sizes: 1.5 x 0.6, 2.8 x 0.8, 5.8 x 0.8, 6.3 x 0.8 and 9.5 x 1.2 mm
- Tab and receptacle contacts in two-piece design with steel spring
- Contacts for sealed and unsealed applications
- Range of wire sizes from 0.2 mm² up to 10 mm² (9.5 mm Flat Contact)
- Base material with high current carrying capacity available
- Order Catalog 889780, "Contact Systems"



AMP Sensor Flat Contact System

- Contact system for the automotive industry
- Available contact sizes: 1.5, 2.8 mm Sensor Flat Contact
- Specially developed to prevent fretting corrosion
- Able to compensate micro motions in all three space axes
- Contacts for very high vibration load
- Secondary locking possible from four directions
- Suitable in the cavities of the AMP MCP contacts
- Same application tools can be used as for the AMP MCP contacts
- Order Catalog 889780, "Contact Systems"



AMP ACTION PIN Contacts

- Large gas-tight contact zone
- High reliability due to stored energy
- No damage to plated thru-holes during application
- Especially suited for multilayer PCBs
- More economic board manufacturing due to larger hole tolerances compared with the use of a solid pin
- Application can be made by the end-user
- Order Catalog 889780, "Contact Systems"

Heavy Duty



HTS Heavy Duty Connectors

- Rectangular, multiple position, pin and socket connectors
- Referred to as "European Metal Shell" connectors
- Connector designated by four components: base and hood, and male & female modular inserts
- Most popular housing sizes [shell size (number of positions)]: 1 (3 or 4), 3 (6), 6 (16), 8 (24), and 5 (25)
- Bases provide environmental and electrical protection (IP 55, 65, 68 or NEMA 4 and 4X levels); industry standard panel cutout and mounting hole pattern
- Number of positions available for insert: 1-216
- Ratings: 10-500 A, 250-1,400 V
- DIN/VDE, UL, CSA and SEV approved
- Wire termination types: screw, crimp or cage clamp
- Order Catalog 1308998, "HTS Heavy Duty Connectors"



AMP LGH High Voltage Connectors

- Space saving – maximum performance from small size and weight
- Fast connect and disconnect
- Positive mating of lead into receptacle
- Hermetically sealed
- Excellent mechanical strength – highly resistant to vibration and shock
- High reliability – operates under extreme environmental conditions
- Non-toxic insulation – does not give off toxic fumes when burned
- High voltage lead assemblies and receptacles
- Order Catalog 1308940, “Products for Aerospace & Defense”

Input/Output — General



AMPLIMITE Subminiature D .050 Series Connectors

- Available in right-angle, vertical and cable-mount versions
- 20 through 100 contact positions
- Exceptional EMI/RFI protection
- Higher density (.050” x .100” contact centerline spacing) in a smaller package
- Order Catalog 82068, “AMPLIMITE Subminiature D Connectors”



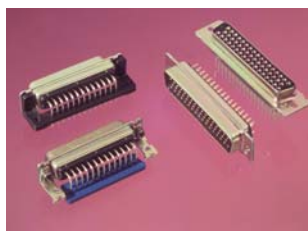
AMPLIMITE Subminiature D Cable Applied Connectors

- Portfolio includes: Crimp Snap, HDE-20 IDC, and Back Shell kits
- Wide range of wire sizes and shielding hardware for overmolding applications
- Crimp Snap are low cost, high performance connectors available in shell sizes 9, 15, 25, 37 and 50 positions
- HDE-20 product has removable contacts for replacement and requires no wire stripping
- Kits are available in plated plastic and die cast metal, as well as straight exit and 90 degree versions
- Order Catalog 82068, “AMPLIMITE Subminiature D Connectors”

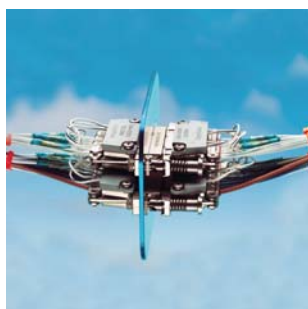


AMPLIMITE Subminiature D Board Mount Connectors

- Available in right-angle, straight posted and stacked versions
- Plug and receptacle HD-20 connectors available in 9 through 50 positions
- HD-22 connectors available in 15, 26, 44, 62 and 78 positions
- ACTION PIN product available in .062” and .093” thick PCB applications
- Available in front and full metal shell styles and all-plastic versions
- Four prong and two prong versions are available
- Gold flash, .10, .15, and .30 gold plating versions
- Numerous hardware options available
- Largest breadth of connector options in the world
- Order Catalog 82068, “AMPLIMITE Subminiature D Connectors”

**AMPLIMITE Subminiature D Connectors per MIL-C-24308**

- Military qualified connectors conform to the latest amendments of MIL-DTL-24308
- Non-magnetic versions available per NASA spec, or with rubber grommet on rear of NASA-type connector
- Ultra-Lite AMPLIMITE non-magnetic connectors save weight and improve EMI shielding vs. brass shell NASA-style connectors
- MIL-C-39029 contacts offer reliability and economies of high speed termination by automatic machine
- Choice of sizes Series 109 (1 through 5), 9, 15, 25, 37 and 50 for standard density, Series 90 (1 through 6), 15, 26, 44, 62, 78 and 104 contacts for high density
- Order Catalog 1308940, "Products for Aerospace & Defense"

**Raychem MTC High Performance Modular Rectangular Connectors**

- Rectangular profile connector saves panel space and weight
- Available in crimp and solder versions
- High density contact spacing available in .100" and .050" spacing
- Shells are available in 1" and 2" sizes
- Modular construction (shell-inserts-keying-accessories) simplifies inventory of components
- Inserts for Size 20-22, 16, and 12 power and coaxial contacts
- User-programmable shell keying features
- Available in various materials and plating – aluminum and corrosion-resisting steel
- Various accessories to meet different shielding configuration and requirements
- For size 8 contact applications, contact Tyco Electronics
- Order Catalog 1654025, "Raychem Wire & Cable, Harnessing and Protection Products"

**CHAMP .8 mm Centerline Connectors**

- EMI shielded high-density and low-profile I/O system
- Right-angle PCB version is available in 36, 50, 68 and 90 position receptacle
- PCB configurations include through-hole and SMT
- Cable plug connectors are available in 36, 50, 68 and 90 position
- Designed per EIA 700A0AF standards
- Order Catalog 65972, "CHAMP .8mm High Density Connectors"; Catalog 1307767, "Multi-User Systems"; Catalog 889409, "Products for Desktop PC's"



CHAMP .050 Centerline Connectors

- Standard Series I
 - Vertical and right-angle plugs and receptacles
 - 20 through 200 selected positions
- Docking
 - Special single leaf contact design provides low mating force
 - 6-row contact arrangement
 - 198 position
- Blindmate
 - Single I/O connector for 3.5, 2.5 SCSI Disk Drives, Fibre Channel
 - Capable of carrying SCSI data, control, power and auxiliary signals
- Series II
 - Cable plug connectors terminate 28-30 AWG (.08-.09 mm²) wire
 - 180° and 75° cable exit
 - Double-spring contact design allows for intermateability and conformance to standards
 - 14 through 100 selected positions
- Order Catalog 82244, "CHAMP .050 Connector"; 1307767, "Multi-User Systems"; 8899409, "Products for Desktop PCs"



CHAMP .085 Centerline Connectors

- Board-to-Board
- Capable of being used with single- or double-sided printed circuit boards
 - Connectors fully intermateable with others of similar design
 - Connectors available in 14, 24, 36, 50 and 64 positions
 - Capable of accommodating printed circuit board thicknesses of .062" (1.57), .093" (2.36) or .125" (3.18)
- Cable-to-Board / IDC
 - Wide wire range
 - Connectors available in 14, 24, 36, 50 and 64 positions
 - Contacts on .085" (2.16) centers in dual position arrangements
- Special Application
 - For factory cable assembly applications
 - Provides for up to a 10% savings in time over conventional cable strain relief methods when used in mass production cable assembly operations
 - May be utilized for booted cables
 - Maximum cable diameter .450" (11.43)
- Order Catalog 82008, "CHAMP Connector System"



AMP SDL (Shielded Data Link) Connectors

- Cost effective shielded connector for data, communication and medical systems
- Available in 4, 6, 8, and 16 position plug and receptacle styles
- Compatible with shielded flat, round, and coiled cables
- Order Catalog 82101, “SDL Connectors”



AMP Circular Sealed RJ-45 Connectors (Industrial Ethernet)

- Receptacles offer solutions for Ethernet field device connectivity
- Termination methods include: 110 punchdown block, direct PCB mount, standard PCB for soldering a cable lead, and bulkhead pass-through
- Female-to-female adapters, overmolded cordsets, and a field-attachable plug complete this product line
- Threaded outer connection contributes to IP 67 sealing and vibration resistance
- Compatible with Category 5e cable
- Fully intermateable with unshielded product
- Order Catalog 1654518, “Industrial Ethernet – Circular Sealed RJ-45 Connectors”



AMP M8 and M12 Sensor Connectors

- Small, circular, threaded coupling, sealed (IP 67), male and female connectors [M8 (3 & 4 pos.) and M12 (2, 3, 4 & 5 positions)]
- Single-ended cable leads available with straight or right-angle connectors; double-ended leads available upon request
- Overmolded cable leads are more resistant to various oils and chemicals in harsh environments (PVC or PUC cable insulation materials)
- Standard cable lead lengths: 2, 3, 5, 7 and 10 meters
- Field serviceable male and female connectors for on-site connections
- Panel mount, all plastic or metal shell, male and female connectors on wire leads
- Operating voltage:
 - M8 (0.25 mm²): 60 VAC / 75 VDC without LED, 10-30 VDC with LED
 - M12 (0.34 mm²): 250 VAC / 300 VDC without LED, 10-30 VDC with LED
- Operating current: 4 A max.
- Specifically developed for industrial equipment, machinery, and automation applications (e.g., field bus). Compatible with most machinery using capacitive, inductive or optical sensors



TRIAD 01 Shielded Subminiature Circular Connectors

- Small, lightweight, shielded circular connector system
- Sealed to IP 65 according to DIN 40050 (liquid and dust tight)
- Field serviceable male connectors (with pins) and female connectors (with sockets) available: 3-5 and 7-8 poles for solder contacts or 3 and 5 poles for crimp contacts (accessories: dust caps and 3 & 5 pole gender changers)
- Solder contacts:
 - 3, 4 & 5 poles; 0.25 mm² max.; 3 A per contact
 - 7 & 8 poles; 0.14 mm² max.; 1 A per contact
- Crimp contacts:
 - 3 poles; 0.5 mm² max.; 3 A per contact
 - 5 poles; 0.25 mm² or 0.14 mm² max.; 1 A per contact
- Cable assemblies with overmolded male/female or male/male connectors
- Panel mount, pin or socket headers (solder post or solder cup), 3-8 poles
- Suitable for medical and industrial applications; also useable in harsh factory environments (Operating voltage 60 VAC)
- Accessories for CAN or MODULAR BUS configurations: terminator plugs with a single resistor or RC set; pre-assembled single- or double-ended cable assemblies with overmolded, 3-pole, straight or T-adaptors, and 1,000 meter reels of 3-pole trunk cable in special colors (e.g., yellow and purple)
- Order Catalog 1654741, "TRIAD 01 Shielded Subminiature Circular Connectors"



AMP Remote I/O Terminal System (RITS) Connectors

- Insulation displacement contacts (IDC)
- 2 mm centerline, wire-to-board and wire-to-wire connectors in 3-8 positions
- Ratings: 3 A max., 32 V rms
- Wire size range: 0.1-0.5 mm², outside diameter: 0.6-1.60 mm; housings color-coded by wire size
- 3- and 4-position connectors terminated with pliers; hand tool required for 5- to 8-position connectors
- Single- and 4-row, straight, stackable, thru-hole headers available; right-angle, SMT version also offered
- Junction boxes, free-hanging or panel mount, allow plug-to-plug connections
- Order Catalog 1654885, "RITS Interconnection System Connectors"



AMP Twin Cam ZIF (Zero Insertion Force) Connectors

- High density connector
- 0.8 mm centerline, 4 rows, 260 positions
- One lever operates two cams which move four lines of contacts
- HDR connector offers two-row straddle mount leads
- High reliability contact wiping action (500µm length)
- Current: 0.5 A; Voltage: 100 VAC; Dielectric Withstanding Voltage: 1000 VAC, Insulation Resistance: 1000 mega-ohms min.
- Durability: 20,000 cycles min.
- Contact resistance: 50 milliohms
- Operating torque: 30-60 N-cm
- Applications: medical equipment (e.g., ultrasound), and measurement equipment

**AMP Modular Jacks — Singleport**

- Available in top, bottom, and side entry
- For direct mounting on pc boards
- For ease of soldering and board cleaning
- Available in both shielded and unshielded versions
- Shielded jack available with two grounding paths - pc board and panel
- 20 dB shielding effectiveness from 30 MHz to 400 MHz
- Meets or exceeds FCC Part 68 rules and regulations, REA PE-76, and UL 1863 Communication Circuit Accessories
- Meets 1000 volt dielectric requirement
- Selectively gold plated contacts for lower cost
- All jacks are UL 94V-0 flame retardant polyester, standard color black, unless specified otherwise
- Order Catalog 82066, "Modular Jacks and MRJ 21"

**AMP Modular Jacks — Multiport**

- Meets or exceeds FCC Part 68 rules and regulations with standard pc board footprints
- Low profile and narrow width allow more ports in less space
- Unshielded and shielded versions in popular size configurations
- Positive connection throughout life of equipment with insert molded contacts
- Accurately positioned solder tails reduce assembly labor while selectively deposited gold plating results in lower cost
- Center mounting leg available on 8 port shielded and unshielded versions
- Available with two grounding paths; pc board & panel
- Order Catalog 82066, "Modular Jacks and MRJ 21"

**AMP Modular Jacks — Stacked**

- Board-to-board performance exceeds Near End Crosstalk (NEXT) requirements of -40dB on all pair combinations at 100 MHz per EIA/TIA 568A
- All Stacked Jacks have Category 5 performance
- Meets or exceeds FCC Part 68 rules and regulations with standard pc board footprints
- Low profile and narrow width allow more ports in less space
- Unshielded and shielded versions in popular size configurations
- Positive connection throughout life of equipment with insert molded contacts
- Accurately positioned solder tails reduce assembly labor while selectively deposited gold plating results in lower cost
- Center mounting leg standard on 8 port shielded and unshielded versions
- Available with two grounding options: pc board & panel
- Order Catalog 82066, "Modular Jacks and MRJ 21"



Raychem Connector Accessories -- Tinel-Lock Adapters

- Raychem harness components used to connect overall shielding braid to connectors and, if necessary, anchor a heat-shrinkable boot for sealing and strain-relieving
- Utilizes Tinel-Lock ring technology that provides extremely low and stable adapter to braid contact resistance
- This system consists of a spin coupling adapter with a Tinel-Lock ring
- Connector interfaces available for most circular connectors
- Available in straight, 45 and 90 degree angles – low profile and swept versions
- Order Catalog 1654025, “Raychem Products”



Raychem Connector Accessories -- CRES-Lock Adapters

- Raychem harness components used to connect overall shielding braid to connectors and, if necessary, anchor a heat-shrinkable boot for sealing and strain-relieving
- Use a corrosion-resisting steel band termination device to connect cable shield to a backshell adapter
- CRES-Lock band strap termination system provides the side entry capability for in-situ braided harnesses
- One size strap for all combinations of entry size/braid type
- Portable hand crimp tool and power tools are available
- Order Catalog 1654025, “Raychem Products”



Raychem Connector Accessories -- HexaShield Backshells

- Raychem harness components used to connect individual wire shield to connectors without the use of pig-tailing for tough EMC applications such as HIRF requirements
- Superior EMC/EMI shielding performance over the shield-termination using pig-tails
- Simple Installation and easy re-entry
- Simplified maintenance and repair
- Excellent mechanical and environmental resistance
- Provides efficient strain relief
- Flexibility of manufacturing and inventory of components
- Available in configurations to work with many popular circular connectors
- Lightweight and small size
- Order Catalog 1654025, “Raychem Products”



Raychem Connector Accessories -- Boot Adapters

- Raychem harness components used to anchor heat-shrinkable boot to connectors
- Several types of adapters are offered for unscreened and screened termination systems
- Available in solid, spin-coupling, or shielded configurations
- Connector interfaces available for most circular connectors
- Available in straight, 45 and 90 degree angles
- Order Catalog 1654025, “Raychem Products”



AMP DVI (Digital Video Interface) Connectors

- Digital interface for consumer and PC industry
- Screw locks ensure mating
- Various keying options available



AMP Connectors for HDMI (High Definition Multimedia Interface)

- Audio/Digital interface designed for the consumer industry
- Full audio and digital signaling in one interface
- Friction fit locking mechanism designed for ease of use
- Order Catalog 1773083, "HDMI Connectors and Cable Assemblies"



AMP USB (Universal Serial Bus) Connectors

- Industry standard solution
- Plugs and headers available
- Both full size and Mini versions
- Order Catalog 124962, "Representative Terminals and Connectors"



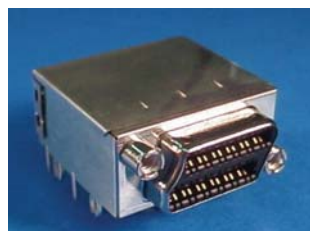
AMP IEEE 1394 Connectors

- Industry standard solution
- Plugs and headers available
- Both full size and Mini versions
- Order Catalog 124962, "Representative Terminals and Connectors"



AMP Mini-DIN Connectors

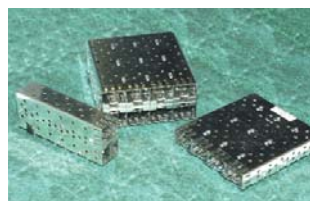
- Industry standard solution
- Extensive keying options
- Stacked and Combo connectors available
- Order Catalog 1307767, "Multi-User Systems"



AMP MRJ 21 Connectors

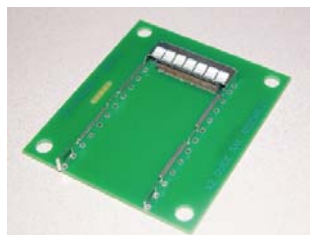
- High-density interface
- 1.5 to 3 times the port density of 2 x 6 Stacked Modular Jack and three times the port density of an RJ21
- Height of the receptacle meets Compact PCI component standard (13.71mm)
- Crosstalk: Designed to meet or exceed Cat 5e
- Jackscrews for positive latching
- Fully shielded system to control EMI
- 1mm pair spacing, 1.5 mm pair-to-pair spacing
- Receptacle is 67% shorter than standard 1 x 6 and 2 x 6 modular jacks, and approximately as deep
- MRJ 21 to Standard RJ21 24-pair cable assembly, or six 4-pair Cat 5e modular plug cable assemblies or twelve 2-pair 10/100 assemblies
- 45° cable exit for ease of routing to component rack
- Ability to significantly increase the switch port count
- More efficient use of board real estate through integrated magnetics connectors
- Improved cable management at the switch
- 1:6 for GbE or 10/100/1000; 1:12 for 10/100
- Order Catalog 82066, "Modular Jacks and MRJ 21"

Input/Output — Pluggable I/O



AMP SFP – Small Form-Factor Pluggable Connectors

- Offered in single port, single row (Ganged), or dual row (Stacked) configurations
- Compatible with Optic or Copper SFP modules
- Rated up to 4.25 Gb/s data transmission
- Ganged SFP (1 x 2, 1 x 4, 1 x 6) offers dense I/O port spacing on 14.25mm horizontal spacing
- Stacked SFP (2 x 1, 2 x 4, 2 x 6) minimized vertical spacing requirements to 25.25mm
- Incorporates industry accepted SFP PT connector technology
- Solder and press-fit versions available
- Light Pipe Kits available offering single solution to customers for panel mount link indicators
- Order Catalog 1773408, "Pluggable Input/Output (I/O) Products"



AMP X2 Guide Rail System Connectors

- Satisfies requirements for higher data rate throughput exceeding 10 Gb/s
- Will transmit 4 channels of data operating at 3.125 Gb/s (XAUI)
- Used in conjunction with 70 pin Surface Mount PT connector
- Compatible with any X2 compliant module
- Standard and belly-to-belly versions available
- Order Catalog 1773408, "Pluggable Input/Output (I/O) Products"



AMP XFP Compliant 10 Gigabit Serial Connectors

- Will transmit 1 channel of data operating at 10 Gb/s
- Used in conjunction with 30 pin Surface Mount PT connector
- Compatible with any copper or optic XFP compliant modules
- Exceptional EMI control through gaskets on caged and to front panel
- Heat Sink options available
- Order Catalog 1773408, "Pluggable Input/Output (I/O) Products"

Input/Output — Rack and Panel



AMP ARINC 404 Rack and Panel Connectors

- Wide range of shell configurations, contact arrangements, contacts and shell modifications, contacts and shell modifications to meet ARINC Specification 404 and MIL-C-81659
- Commercial Series, Unkeyed Single-Insert Series, Military Series and Miniature Series available
- Expanded beam fiber optic inserts available
- Order Catalog 1308940, "Products for Aerospace & Defense"



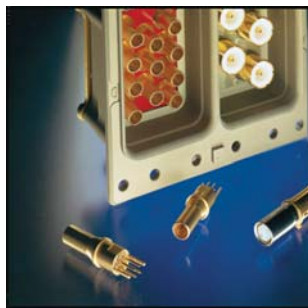
AMP ARINC 600 Connectors

- Meets relevant ARINC 600 connector specifications
- Available in three sizes
- Low mating force contacts – suitable for ARINC 404 connectors
- Full range of contact inserts
- Expanded beam fiber optic inserts available
- Order Catalog 1308940, "Products for Aerospace & Defense"



AMP General Purpose Rectangular Connectors (GPRC)

- GPRA and GPRB Series
- High density solution compared to circular connectors – slim shell design with high contact density, stackable shells that do not require additional space for locking and unlocking the connectors, uses three times less space
- Versatile solution suitable for disconnect panels or equipment with three mounting styles: rack, cable to cable, panel mounting
- Modular concept with large variety of options
- Cost savings and user friendly solution
- Complements ARINC connector product line and provides more flexibility with improved performance compared to standard circular MIL-Spec connectors
- Order Catalog 1654763, "General Purpose Rectangular Connectors"



AMP Size 8 Quadrax Contacts and Connectors

- Multi-signal contact system consisting of two differential pairs (matched impedance) used with quadaxial Ethernet cable
- Shell size 8 Keyed; 24 AWG pin and socket contacts, Hex crimp version as well as PCB tail solderable versions
- 2mm centerlines designed per ARINC 600
- Fits into keyed connector inserts
- Single piece dielectric simplifies termination and improves reliability
- Shells are keyed for proper orientation inside connector insert blocks
- Rear Release/Rear Remove cable versions and Front Release/Front Remove PCB versions
- Order Product Information Flyer 1654012

Microminiature & Nanominiature



MICRODOT Microminiature D Connectors

- For both commercial and military applications (qualified to MIL-PRF-83513)
- High-density .050" (1.27) centerline; 9 - 100 positions; metal shell and plastic shell versions
- TWIST/CON twist pin & socket contacts provide low engaging force and high durability

MICRODOT Rectangular Connectors

- Uses TWIST/CON twist pin & socket contacts on .050" (1.27) centerline
- For both military and commercial applications
- Metal shell, plastic shell, panel mount, printed circuit board and strip connectors

MICRODOT Circular Connectors

- High-density, light-weight, multi-pin connectors ideal for harsh environments
- Sealed versions with silicon rubber grommet/o-ring available
- Meets MIL standards (but is not QPL'd)
- Various coupling types (threaded, Posilock, push-pull)

MICRODOT Coaxial Connectors

- For 50, 70 and 93 ohm miniature coaxial cables
- Screw-on, Slide-on and Quick-Connect series
- Order Catalog 1308638, "MICRODOT Connectors"



NANONICS Nanominiature Connectors

- Very-high-density .025" (0.64) centerline connectors designed for size and weight reduction while maintaining a high level of reliability and ruggedness
- Strip Connectors, the smallest of our nanominiature connectors, are available for PCB surface mount and through-hole applications and may be terminated with ribbon cable, flex circuits, and insulated wire (30 to 42 AWG)
- DUALLOBE Connectors provide wire-to-board and wire-to-wire connections and are available in plastic or metal housings. Standard sizes are 5, 9, 15, 25, 37 and 51. Military and commercial versions.
- "H Series" Connector offers a hermetically glass sealed receptacle per MIL-STD-202
- Nano-Axial Connectors allow up to nine coaxial contacts or mixed coax/signal combinations
- Environmentally sealed circular connectors are available in 7, 19 and 44 positions with quick-disconnect or threaded coupling
- Order Catalog 1308638, "NANONICS Nanominiature Connectors"

Pin and Socket



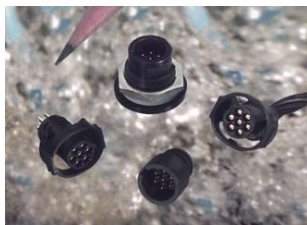
AMP Standard Circular Plastic Connectors (CPC)

- Lightweight, all-plastic circular connectors with quick connect/disconnect coupling
- Offered in six connector series comprising signal, power, and combination signal/power configurations
- Overall position range of 3-63 and current capacity up to 50 A
- Available in panel or chassis mount and free-hanging configurations
- Some versions sealable to IEC IP 65 or IP 67
- Metal-shell version (CMC – Circular Metal-Shell CPC) has thermoplastic insert in a nickel-plated, zinc alloy shell; optional TETRASEALS interface seal provides splash-proof sealing between connector metal shells
- Order Catalog 82021, "Circular Plastic Connectors for Commercial Signal and Power Applications"



AMP Miniature Circular Plastic Connectors (CPC)

- Small circular connector system for wire-to-wire, wire-to-board, and wire-to-panel configurations
- 1-9 positions
- Uses existing Mini-Universal MATE-N-LOK crimp, snap-in contacts
- Sealing to IEC IP 67 helps prevent ingress of dirt or fluids
- ¼-turn coupling ring with positive lock and alignment features
- Order Catalog 82021, "Circular Connectors for Commercial Signal and Power Applications"



AMP Micro Circular Plastic Connectors (CPC)

- Very small circular connectors for applications where size, contact density, and durability are concerns
- 2-19 positions
- Soldered spring probe or screw-machine pin and socket contacts
- Sealing to IEC IP 65 helps prevent ingress of dirt or fluids
- Capable of 3 A, 250 V
- Squeeze-to-release coupling
- Order Product Information Flyer 1309096, "Micro CPC Connectors"



AMP Metal-Shell Micro Circular Connectors

- Small, circular connector for military, aerospace, and industrial applications
- 2 shell sizes M11 (7 pos) and M14 (19 pos)
- High performance at lower cost
- High density for limited space applications
- Multiple shell sizes
- Resistance to autoclaving or chemical sterilization
- Environmentally sealed IP67 and shielded
- Operating voltage 200 VAC max.
- Order Product Information Flyer 1654950



AMP M Series Connectors

- Wire-to-wire, wire-to-board and wire-to-panel
- Most connectors interchangeable with other manufacturers' connectors made to MIL-C-28748 requirements
- Wide range of styles and sizes: standard connectors (unloaded), posted connectors (preloaded), and special application connectors
- Full line of accessory hardware for fastening, protecting, guiding, strain relief, and keying
- Variety of contacts (signal, power, coaxial, and posted); many are interchangeable and can be intermixed in the same housing
- Order Catalog 82003, "M Series Pin and Socket Connectors"



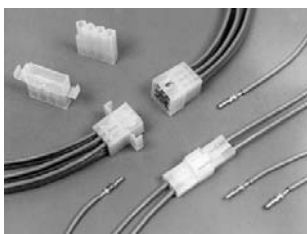
AMP Metrimate Connectors

- Wire-to-board, wire-to-panel and wire-to-wire
- True metric dimensions
- Contacts on 5.00 mm (1.97 in.) centerline
- Drawer connectors and special in-line connectors and pin headers on 5.08 mm (.200 in.) centerline
- Panel mount versions require no hardware for mounting
- Polarized housings
- Voltage rating: 600 V AC/DC
- Order Catalog 82045, "Metrimate Pin and Socket Connectors"



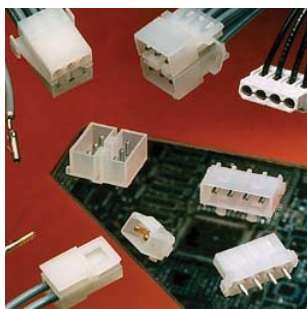
AMP Precision Pin and Socket Contacts

- Variety of signal and power contacts, coaxial contacts, and posted versions for backpanel wiring applications
- Stamped & formed and screw-machined versions available, as well as solder type and solder tab
- High-current upgraded contacts use high amperage Louvertac contact bands
- Current carrying capability: 7.5-60 A, depending upon wire size, connector size, current load distribution, and ambient temperature
- Most contacts offered in strip form on reels for automatic or semiautomatic machine termination
- Loose piece contacts can be terminated with hand tools
- Order Catalog 65910, "Precision Pin and Socket Contacts"



AMP .093 and .062 Commercial Pin and Socket Connectors

- Economical grade, wire-to-wire connectors
- Dual contact locking lances provide optimum contact stability
- Panel mount or free-hanging versions
- Voltage rating: 250 VAC or VDC
- Standard density (.093" diameter pin contact), .198" centerline, 1-15 positions; 13 A rating
- High density (.062" diameter pin contact), .145" centerline, 1-9 positions; 7 A rating
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



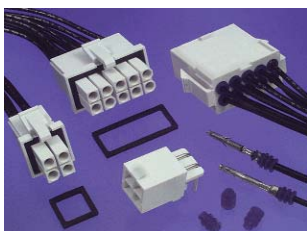
AMP Commercial MATE-N-LOK Connectors

- Standard density, wire-to-wire and wire-to-board connectors
- .200" centerline
- 1-16 positions
- Panel mount or free hanging
- Ratings: 19 A, 250 VAC
- Hot side is egg-crated for safety
- Locking devices are integral part of design
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



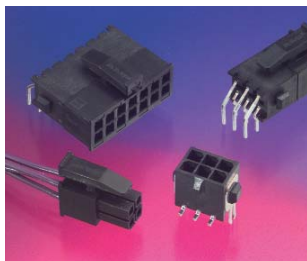
AMP Universal MATE-N-LOK and Universal MATE-N-LOK II Connectors

- .250" centerline; 1-15 and 2-15 positions, respectively
- Standard density, wire-to-wire and wire-to-board capability
- Panel mount or free hanging
- Ratings: 19 A, 600 VAC or VDC
- Contacts protected in the housings
- Seals available for splash protection (Universal MATE-N-LOK only)
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



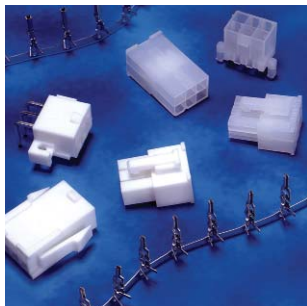
AMP Mini-Universal MATE-N-LOK and Mini-Universal MATE-N-LOK 2 Connectors

- High density, .163" centerline; 1-24 and 2-24 positions, respectively
- Wire-to-wire and wire-to-board capability
- Ratings: 600 VAC or VDC; 9.5 A and 10.5 A, respectively
- Contacts protected in the housings
- Seals available for splash protection (Mini-Universal MATE-N-LOK only)
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



AMP Micro MATE-N-LOK 3mm Connectors

- High density, wire-to-wire and wire-to-board connectors
- 3 mm centerline, 2-24 positions
- Ratings: 5 A, 250 VAC
- Dual beam receptacle contact design for improved reliability
- Panel mount or free hanging
- PCB headers are available in vertical and right-angle versions; thru-hole or surface mount
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



AMP 4.2 mm PE Series Connector System and AMP-DUAC Connectors

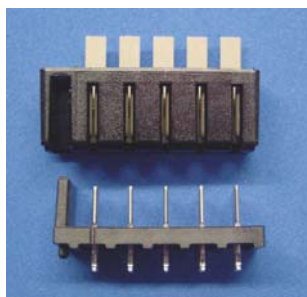
- High density, wire-to-wire and wire-to-board capability
- .165" centerline
- 2-24 positions
- Ratings: 9 A, 600 VAC
- Panel mount or free hanging
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"



AMP Miniature Rectangular (MR) Connectors

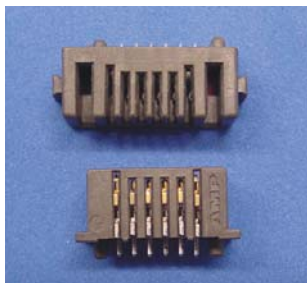
- High density, wire-to-wire and wire-to-board connectors
- .165" centerline
- 2-36 positions
- Ratings: 9 A, 250 VAC
- Panel mount or free hanging
- Positive locking latches
- Order Catalog 82181, "Soft Shell Pin and Socket Connectors"

Power — Battery



Pluggable – Blade Style Interconnects

- 4 through 10 positions offered
- 2mm, 2.5mm and 3mm high density blade centerlines
- 5mm blade centerlines for higher voltage/higher current applications
- 5mm versions offer solder tails on both plugs and receptacles
- Solder tail and surface mounting options on the high density plugs
- SMT mounting for the high density receptacles
- Order Catalog 1773096, "Power Connectors & Interconnection Systems"



Multi-Directional Interface (MDI)

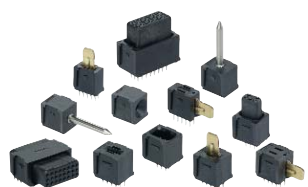
- 6 position, 2mm interface shrouded on both sides
- Offers blind-mating from 0-to-90 degree mating angle
- Solder tail pcb termination
- Order Catalog 1773096, "Power Connectors & Interconnection Systems"



Coin Cell Battery Connectors

- Accepts BR 2032 and CR 2032 Lithium Ion batteries
 - Vertical orientation available with solder tails
 - Low profile horizontal orientation with solder tail or SMT terminations
- Accepts ML 616 and ML 614 batteries
 - SMT termination
- Order Catalog 1773096, “Power Connectors & Interconnection Systems”

Power — Blade & Receptacle



ELCON Flatpak Connectors

- Board-to-board power connectors using Elcon Crown Band power contacts
- Modular design allows easily customized configurations
- Straight, right-angle, and co-planar styles available
- True hot-plug contacts allow current interruption under load
- Sequenced mating of power and signal contacts
- Unique active guide modules double as alignment guide and ground contact
- Order Catalog 1773096, “Power Connectors and Interconnection Systems”



ELCON Minipak Connectors

- Board-to-board power connectors using Elcon Crown Band power contacts
- Highest linear power density
- “Dual Blade” feature reduces contact pitch to 4.5 mm
- Shrouded insulators with built in alignment
- Power and signal contact sequencing
- Custom versions to address specific applications
- Order Catalog 1773096, “Power Connectors and Interconnection Systems”



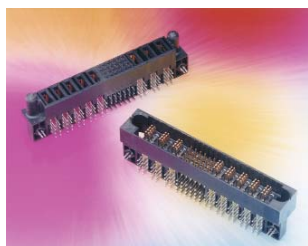
ELCON Crown Edge Connectors

- High-current card edge style interface
- True Crown Band power contacts deliver 30 A per contact
- Flexible modular design
- Mates with .062” thick PCB’s or busbar tabs
- Press-fit and pc board terminations
- Order Catalog 1773096, “Power Connectors and Interconnection Systems”



ELCON Crown Clip Connectors

- High Current Socket connector for busbar applications
- High performance Crown Band power contacts
- Currents to 350 A
- Supports true hot-plug applications
- Single and dual pole options
- Mates with solid or laminated blades
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMP MULTI-BEAM XL Connectors

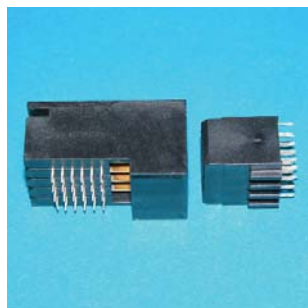
Board-to-Board

- Blind-mateable power distribution system
- PCB solder tail or compliant press-fit connections
- Power and signal contacts combined in one housing
- Right-angle or vertical PCB receptacles and headers
- Meets Server Systems Infrastructure (SSI) Standard



Cable-to-PCB

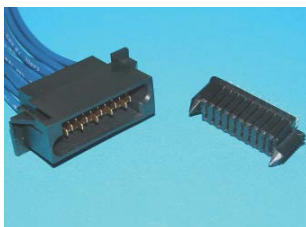
- XYZ floating drawer-style receptacles
- XYZ floating drawer-style plugs
- Squeeze-to-release receptacles
- Squeeze-to-release plugs
- Slide-to-lock panel mount plugs and receptacles
- Order Catalog 1773096, "Power Connectors & Interconnection Systems"; 1308662, "MULTI-BEAM XL Power Distribution Connector System"; 1654850, "MULTI-BEAM XL Cable Assemblies"



Mini Power Modules

AMP MultiGig RT Power Module

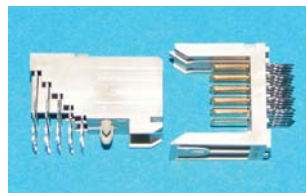
- High current density – up to 120 A per linear PCB inch
- 2 and 4 position right-angle headers & vertical receptacles
- Three levels of sequencing
- Compliant press-fit connections on both connector halves
- Sequences with AMP MultiGig RT high-speed signal connectors
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



Mini Power Modules (continued)

AMP Mini Power Drawer

- XY floating drawer-style plug
- Proven (UPM style) hot-plug contact design
- Vertical press-fit receptacles with molded-in guide pins
- Panel mount plug requires no hardware to assemble
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMP 2mm FB FutureBus Power Module

- Designed to IEC 61076-4-0X
- Up to 50 A per linear pcb inch
- Offered in 8 and 10 positions - 3 A per individual contact
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMP Universal Power Module (UPM)

- Current density up to 100 A per linear pcb inch
- 3 through 8 position right-angle headers & vertical receptacles
- Three levels of sequencing
- Compliant press-fit connections on both connector halves
- Sequences with AMP 2mm Hard Metric Backplane Connector Systems
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"

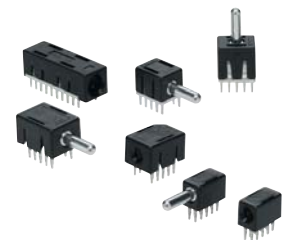
Power — Drawer



ELCON Drawer Connectors

- "Industry Standard", high performance, rugged power connectors
- Wire-to-wire or wire-to-board
- Uses Elcon Crown Band power contacts
- True hot-plug capability
- Widest selection of connector layouts in the industry
- Custom layouts available for application specific designs
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"

Power — Pin and Socket



ELCON Icon Connectors

- Single-pole power connectors
- 35 A current rating using Crown Band power contacts
- Straight and right-angle mounting
- Compliant press-fit and pc tails
- Board-to-board/busbar/wire interconnection
- Optional locking feature
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



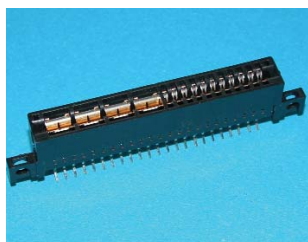
ELCON Mini Crown Edge Connectors

- For 1U & 2 U VRM applications
- VRM 10.2 designated connector
- True Crown Band power contacts deliver 25 A per contact
- SMT, pc tail and compliant press-fit terminations
- Growing family of layouts
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



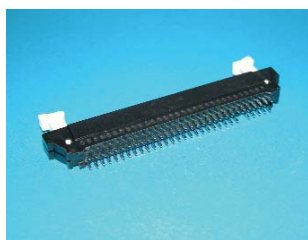
AMP Standard Edge II Card Edge Connector

- Vertical and right-angle PCB mounting
- Up to 3 A per contact
- 3 dual – 70 dual positions
- Solder or compliant press-fit connection to PCB
- 105°C maximum operating temperature
- No special seating tools required (Flat-rock press-fit seating)
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMP Standard Edge II Power Card Edge Connector

- Integrated 22 A power and 5 A signal contacts
- Multi-beam power contact design provides low resistance current transfer
- Vertical PCB mounting
- Straddle mounting for co-planar power distribution
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMP Standard Edge High Current Card Edge Connector

- Current density up to 5 A per contacts – without airflow
- Over 6 A per contact – with airflow – per VRM 10.X specifications
- New rugged plastic latch design replaces old metal latch design
- Solder tail or compliant press-fit termination
- 125°C maximum operating temperature
- Order Catalog 1773096, "Power Connectors and Interconnection Systems"



AMPMODU Two-Piece VRM Headers and Receptacles

- VRM 7 (30 positions) and VRM 8 (40 positions) connectors meet the EIA-364-53 porosity requirement
- Different processor voltages require an upgradeable VRM system to match each microprocessor. The module is connected using the Two-Piece header & receptacle system which incorporates a specific latching mechanism.
- Order Catalog 1307819, "AMPMODU Interconnection System"



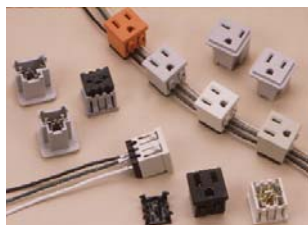
AMP Power Products

- AMP Power Series 15/30/45, 50, 75, 120, 175, 180 and 350 Connectors. For quick connect/disconnect wire-to-wire and wire-to-panel applications. Housings available in single-pole or 2-pole (battery) versions. Built-in interlocking dovetails on single-pole housings allow stacking and wire routing. Hermaphroditic/genderless housings reduce inventory. Housing colors can be used to designate industry standard voltages. Cold-headed and stamped & formed contacts (12 AWG-300 MCM). Integral stainless steel spring in housing for contact retention.
- AMPINNERGY Connectors. Voltage rating: 600 VAC (RMS). Modular, single-pole housings are available in six colors and are stackable in four directions for wire-to-wire applications; mounting adapters allow panel or surface mounting. Wire-to-board connectors are comprised of PCB mount receptacles and mating plug housings that accept stamped & formed, crimp, snap-in contacts (10-18 AWG). Polarized housings feature positive latching. .440" centerline. Current rating: 10-55 A (wire-to-wire) and 12-35 A (wire-to-board).
- Order Catalog 1308885, "Power Products"



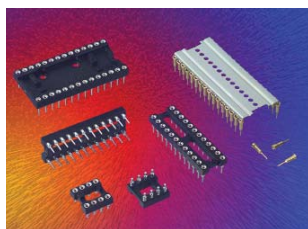
SOLARLOK Photovoltaic Interconnection System

- For easy and reliable interconnection of individual photovoltaic modules to DC/AC converters
- Junction box concept allows serial as well as parallel interconnection via direct wire connect or separable connectors
- Junction box accommodates up to six termination rails for photovoltaic foil connection
- Junction box can be provided pre-configured with diodes, jumpers, plug connectors, and solar cable pigtails
- Male and female cable connectors designed for high voltage and high current-carrying capacity
- Quick and secure mating is supported by: polarized, keyed housings; fully-shrouded contacts; high cycle life; and the squeeze-to-release connection system
- Sealed to IP 67
- Wide operating temperature range
- Order Catalog 1654762, "SOLARLOK Interconnection System"



AMP Convenience Outlets

- Panel mount connector snaps in without the use of tools
- Terminates insulated solid copper wire using strippless insulation displacement terminals
- Terminates wire end or allows wire to feed through
- Alternate connection uses FASTON 205 Series Tabs
- Panel mount connectors available in two wire ranges: 14-12 AWG (15 A), 18-16 AWG (10 A for 18 AWG and 13 A for 16 AWG)
- Printed circuit board mount versions available in 15 A or 20 A
- All connectors rated for 125 VAC
- Several housing colors available
- Order Catalog 82067, "Convenience Outlets"



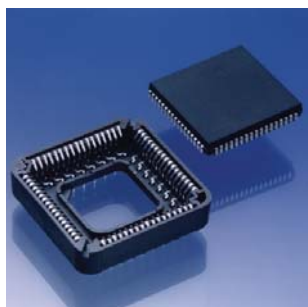
AMP DIP & SIP Sockets

- Version with Dual Leaf (DL) stamped and formed contacts provides large target area and dual wiping surfaces for high reliability and constant, low resistance
- Screw-machined contact version has inner contact with four contact fingers for high reliability applications
- Stackable end-to-end and side-to-side (brickwalling) for high board density
- DIP sockets range in size from 6-48 positions
- SIP sockets range in size from 3-25 positions
- Order Catalog 1307612, "Products for Industrial & Commercial Applications"



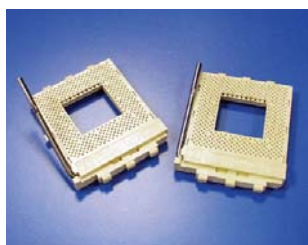
AMP HOLTITE Press-Fit Discrete Sockets

- Solderless zero-profile HOLTITE Socket contact designed to be press-fit into a plated through-hole of a printed circuit board
- Unique design allows the plated through-hole to become the component socket
- Outer conical shape of HOLTITE contact sizes the plated through-hole when pressed into place
- Precision-machined, tapered-entry, four finger contact has a proven record of reliability
- Retains short component leads and provides maximum heat dissipation
- Conversion to the HOLTITE system is accomplished by simply changing the drilled hole diameter prior to plating
- Order Catalog 1307612, "Products for Industrial & Commercial Applications"



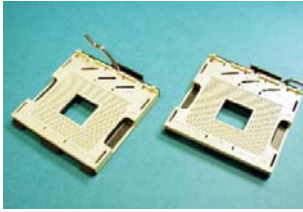
AMP PLCC Sockets

- Low Profile – only 4.6 mm (.181) maximum for high density PCB stacking
- Footprint allows for socket or direct mounting package
- Corner chamfer for PLCC orientation; housing slots accept extraction tool for easy PLCC removal
- Available loose piece or tape mounted
- Plastic standoffs provide clearance for heat dissipation and cleaning operations
- Open bottom housing for convenient placement of socket on housing, 100% inspection of solder joint, and penetration of heat source to the solder pad and surface mount contact
- Order Catalog 1307612, "Products for Industrial & Commercial Applications"



AMP PGA Sockets

- Zero Insertion Force (ZIF) actuation
- Actuation styles - single lever and screw driver
- Position sizes: 321, 370, 423 and 462
- Order Catalog 1307767, "Multi-User Systems"



AMP MICRO PGA Sockets

- Zero Insertion Force (ZIF) actuation
- Desktop sizes: 478, 603, 604, 700, 754, 939, 940, 959
- Mobile sizes: 479, 563



AMP LGA Sockets

- Application: Desktop PC
- SMT solderball attachment
- Position Size: 775
- Stainless steel direct socket loading



AMP DDR Sockets

- 184 position (vertical, right-angle and 25 degree)
- Solder tail (through-hole) and press-fit versions
- Gold plating - Gold flash, 15 and 30 microinch



AMP DDR2 Sockets

- 240 position (vertical, 25 degree)
- Solder tail (through-hole) and press-fit versions
- Gold plating—Gold flash, 15 and 30 microinch



AMP SO DIMM Sockets

- 144 position .8mm pitch
- Packaged in soft and hard trays and on tape and reel
- Card height off the PCB: 2.1mm, 3.3mm, 3.7mm, 8mm



AMP SO DDR 2 Sockets

- 200 position .6mm pitch
- Standard and reverse design
- Card height off the PCB: 4mm, 5.2mm, 6.5mm and 9.2mm

Special Appliance Connectors



Surface Burner Connector System

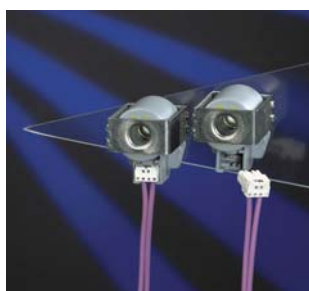
- For easy connection of surface burners in ranges of virtually any manufacturer
- Permits a manufacturer to use high-speed equipment to terminate leads
- Order Catalog 1307612, "Products for Industrial and Commercial Applications"

Power Blocks and Power Rings

- Simplifies and facilitates power integration for washers, dryers, air conditioners and other household appliances by allowing easy attachment of power cords or direct wiring with 10 through 6 AWG (5 through 15 mm²) cable in accordance with US National Electrical Code requirements
- Power Rings snap into 3 position phenolic Power Block, which is easily mounted in appliance using sheet metal screws
- Order Catalog 1307612, "Products for Industrial and Commercial Applications"

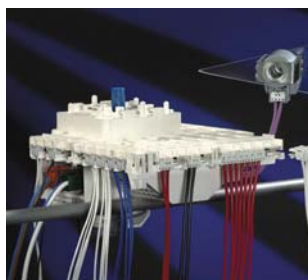
FASTON Housings for Appliance Applications

- Widely used in appliances; provides low-cost connection and ease of installation
- Accepts a variety of FASTON receptacles
- Order Catalog 82004, "FASTON Terminals"



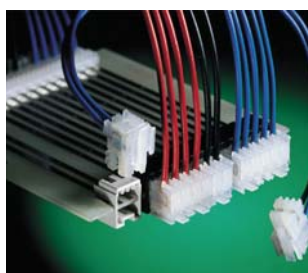
AMP DUOPLUG 2.5 Connector System (RAST 2.5)

- Connector system for rationalized production
- High production rate with minimal rejects
- One-piece and two-piece connector system
- Keyable female part
- Contacts protected against damage
- Controllable wire insertion
- Wire strain relief provided by cover
- Defined wire insertion depth
- Protection provided by three side walls
- Designed according to RAST 2.5 Specification
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



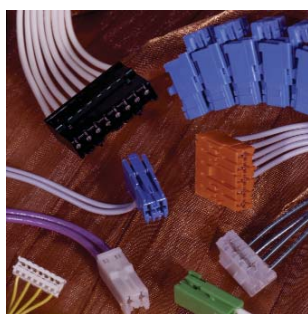
AMP DUOPLUG 2.5 Mark II Connector System (RAST 2.5)

- IDC connector system for harness production
- For PCB and electrical component applications
- Designed according to RAST 2.5 Standard
- 2.5mm centerline
- Openings in cover for electrical tests
- Excellent contact protection
- Keyable female connector
- Chainable products for optimal handling in logistics and manufacturing
- Special version optional internal locking for secure retention to PCB without use of frame
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



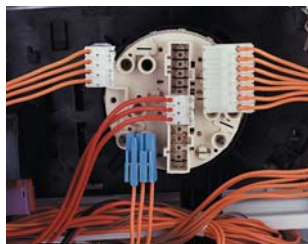
AMP DUOPLUG 2.5 Power Connector System (RAST 2.5)

- IDC Connector System for harness production
- For PCB and electrical component application
- Designed according to RAST 2.5 Standard
- Low housing height
- 5.0mm centerline
- Excellent contact protection
- Keyable female part
- Chainable products for optimal handling in logistics and manufacturing
- Special version optional internal locking for secure retention to PCB without use of frame
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



AMP Multifitting Mark II Connector (RAST 5)

- Direct mating connectors for PCB, 2-8 positions, up to 6 A current carrying capacity
- Indirect mating connectors, 1-8 positions, up to 16 A current carrying capacity
- Variable keying
- Double wire termination possible
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



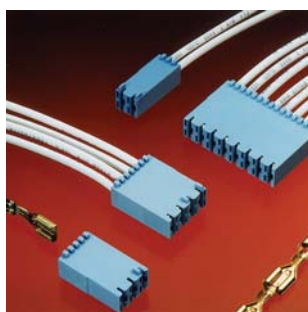
AMP MONO-SHAPE Connectors (RAST 5)

- IDC Connector system design to maximize the full integration with the application tooling to allow total flexibility in harness design
- High current system, up to 16 A, designed to satisfy several appliance requirements
- IDC contact designed to accept standard discrete wires ranging from 0.5 up to 1.5 mm², according to the connector configuration
- Incorporates modern in-line mating technology on a 5.0mm centerline with no loss of spacing and variety of keying possibilities
- Wiring faults eliminated through high automation
- Approvals: VDE: 4751-1431-4024/A 10A and 4751-1431-4024/A9E, UL E 28476 Vol. 9 Sec. 7; 97 ME 17936; AP-27HB
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



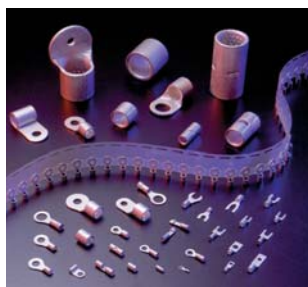
AMP Power Blade Connectors (.125" x .020" Blade and Receptacle)

- Meets industry requirements, for example, multiple position connectors, secure connection even at angled mating as well as a sturdy contact design
- Suitable for high density and high current capacity up to 16 A
- Available in different keying and locking versions from 2-24 positions
- Contacts can be used with stranded wires from 0.5 mm² to 2.5 mm and can be double terminated
- VDE tested and fulfills all requirements according to VDE 0700 (air gap, creepage distance, glow wire test, ball pressure test, creepage current strength)
- UL recognized component
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



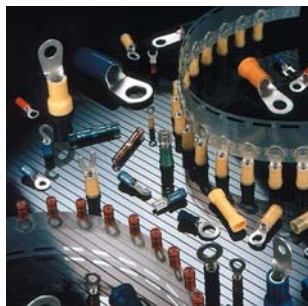
AMP Positive Lock RAST 5 Connector System

- Meets UL-310 specification for quick connect terminals
- 2 through 8 position housings
- Keying and polarization features
- Utilizes AMP Positive Lock Mark III Receptacles
- Terminals available for 18-14 AWG single wire or 18-16 AWG double wire applications
- Plain brass and tin plated terminals available
- Order Catalog 1654742, "Household Appliances and Commercial Equipment"



AMP Uninsulated Terminals

- **SOLISTRAND Terminals**
 - Crimp solid and stranded wire (26 AWG – 600 MCM). U.L. listed, CSA Certified, Military Approved
 - Order Catalog 65505, “SOLISTRAND & DIAMOND GRIP Terminals and Splices”
- **DIAMOND GRIP Terminals**
 - Metal sleeve provides insulation support. Available in wire sizes 26-10 AWG
 - Order Catalog 65505, “SOLISTRAND & DIAMOND GRIP Terminals and Splices”
- **STRATO-THERM Terminals**
 - For high-temperature applications ranging from 500°F (260°C) to 1200°F (649°C). Accommodates solid and stranded wire
 - Order Catalog 82011, “STRATO-THERM Terminals and Splices”
- **AMPOWER Terminals**
 - For large cables and leads from 6 AWG to 1000 MCM (13-507 mm²) for terminals and up to 1500 MCM (760 mm²) for splices
 - Order Catalog 82025, “AMPOWER Terminals and Splices”



AMP Insulated Terminals

- **PIDG Terminals & Splices**
 - Pre-Insulated terminals and splices designed for uniform reliability in most difficult circuit environments
 - Wire size 22 AWG through 2/0 AWG
- **PLASTI-GRIP Terminals & Splices**
 - Pre-insulated terminals and splices designed for inexpensive, insulated electrical terminations
 - Wire size 22 AWG through 2/0 AWG
- **AMPLI-BOND Terminals**
 - For heavy-duty applications requiring 8 AWG through 4/0 AWG wire
- **TERMINYL Terminals & Splices**
 - Tested under the procedures stipulated by MIL Spec. MIL-T-7928, they meet and exceed requirements
 - Wire size 8 AWG through 4/0 AWG
- **CERTI-SEAL Splices**
 - Nylon window splice for military commercial, aircraft, and missile applications that seals out vapors and fluids and provides exceptional wire insulation support
- **Closed End Splices**
 - For single and multiple wire applications in wire ranges of 24 to 6 AWG (0.2 to 16 mm²), 509 to 42,700 CMA
- Order Catalog 82042, “Standard Terminals and Splices” and Catalog 65472, “Closed End Splices”



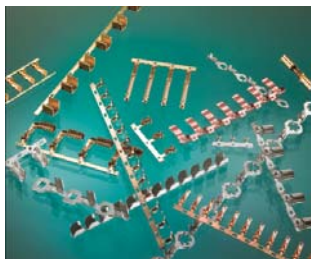
AMP Uninsulated Quick Connect/Disconnect Terminals

- **FASTON Receptacles**
 - Wide variety of uninsulated, wire-applied receptacles including Premier, Budget, Economy, Low Insertion Force (LIF), Moldable, Hermetic and Commercial
 - Straight and right-angle receptacle configurations available
 - Receptacles available in .312", .250", .205", .187", .125" and .110" sizes
 - Wire range 8-30 AWG
 - Tabs offered in wire-applied, PCB mount and special-application types
 - Order Catalog 82004, "FASTON Terminals"
- **Proner Low Insertion Force Receptacles**
 - Reduced insertion force (<25 N) receptacle locks onto tabs containing holes
 - Flag type, short and heart crimping
 - VDE/CSA standards
 - Order Catalog 1654742, "Household Appliances and Commercial Equipment"
- **E-SPRING CONTACT Electrical Contact**
 - Low insertion force "swinging spring" receptacle for 6.35 x 0.8 mm tabs
 - Insulation sleeve is applied after crimping
 - Complies with CEI 760, EN, 61210, DIN 46249 norms
 - Order Catalog 1654742, "Household Appliances and Commercial Equipment"



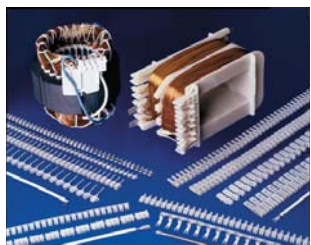
AMP Insulated Quick Connect/Disconnect Terminals

- **Ultra-Fast and Ultra-Fast Plus Receptacles & Tabs**
 - Fully pre-insulated FASTON receptacle (Premier grade receptacle)
 - Ultra-Fast Plus version provides wire insulation support crimp
 - Terminates 26-10 AWG wire
- **Ultra-Pod FASTON Receptacles & Tabs**
 - Insulating pod is machine-applied to FASTON receptacles during one-step automatic crimping operation
- **Positive Lock Receptacles**
 - Reduced insertion force receptacle "locks" onto tab with hole (can be used with housing)
 - Wire range 24-14 AWG
- **PIDG FASTON Receptacles & Tabs**
 - Terminal combines AMP PIDG pre-insulated wire crimping barrel and FASTON quick connect/disconnect receptacle/tab mating end
- **FASTIN-FASTON Connectors**
 - Multiple-connector version of the basic FASTON Product Line
 - Housings allow simultaneous, quick attachment of up to eight separate circuits
- **Microlock Receptacles**
 - Withdrawal force >100 N
 - Used with insulation boot which allows release of locking tongue and automatic removal of receptacle
 - Microlock Receptacles -- Order Catalog 1654742, "Household Appliances and Commercial Equipment"
 - All other products – Order Catalog 82004, "FASTON Terminals"



AMP Machine Applied Open Barrel Terminals

- Wide range of product configurations including rings, spades, pins, receptacles, splices, tabs and special configurations
- Contacts are manufactured in strip form and supplied on reels for high-speed automatic machine termination
- Excellent mechanical and electrical performance
- Recognized under the component recognition program of Underwriters Laboratories, Inc. file No. E13288
- Order Catalog 82227, "Machine Applied Terminations, Open Barrel Terminals "



AMP Magnet Wire Terminals

- **MAG-MATE Terminals**
 - For integration into coil bodies or specially designed housings
 - Employs insulation displacement crimp (IDC) which accepts unstripped magnet wire
 - Standard MAG-MATE (34-12 AWG); Mini MAG-MATE (52-30 AWG); SlimLine MAG-MATE (33-17 AWG) terminal options
- **SIAMEZE Terminals**
 - Moving beam contact design connects a wide range of magnet wire sizes with a single terminal (no stripping of magnet wire)
 - Standard Range (34-18 AWG), Fine Range (36-27 AWG) and Medium/Heavy Range (23-12 AWG) magnet wire terminals
- **AMPLIVAR Splices**
 - Designed to terminate magnet wire to itself or on combination with standard solid or stranded lead wire via crimped splice
 - Serrations in the crimp barrel pierce the magnet wire insulation, eliminating the need to pre-strip the magnet wire
- **MTM Crimpband Splices**
 - Made from a continuous coil of "Ribbon Connector" material on semi-automatic termination machine
 - Splices have serrations that displace unstripped magnet wire insulation
- Order Catalog 82221, "Magnet Wire Terminals and Termination Systems"



AMP Aluminum/Copper Wire Terminals

- **COPALUM Terminals & Splices**
 - Bar Crimp version terminates terminals and splices for aluminum-to-aluminum and aluminum-to-copper stripped wire applications (16 AWG to 500 MCM)
 - Insulation Piercing version terminates film-insulated solid aluminum and solid copper conductors (without stripping) and uninsulated stranded copper conductors – individually or in combination (16 to 4/0 AWG)
 - "Dry crimp" technique eliminates messy inhibitors
- **TERMI-FOIL Terminals & Splices**
 - Accommodates aluminum foil or strip thickness from .001" to .095" (0.03 to 2.41) and soft copper to .010" (.025)
 - No surface preparation required
 - Will terminate or tap aluminum foil-wound coils; will splice two or more pieces of foil or strip
- Order Catalog 82020, "COPALUM Terminals" and Catalog 82039, "TERMI-FOIL Terminals and Splices"



Raychem Wire-to-Wire Splicing

- Wire-to-wire splicing devices are rugged, reliable, and easy to install
- For applications with temperatures up to 150° C
- SolderSleeve splicing devices can be used to make sealed or unsealed splices – they solder, insulate, encapsulate and strain-relieve a wide range of wire sizes
- DuraSeal heat-shrinkable nylon crimp splices are easy to use in factory or repair applications – provide watertight sealing and superior protection against corrosion, abrasion and vibration
- MiniSeal crimp splices are high-performance, small, lightweight, low profile
- SolderGrip closed end splices utilize a spiral copper coil that grips and compresses the conductors and allows a prefluxed solder ring to flow to the enter of the splicing area which results in a high-reliable repeatable solder joint
- Order Catalog 1654025, “Raychem Wire and Cable, Harnessing and Protection Products”



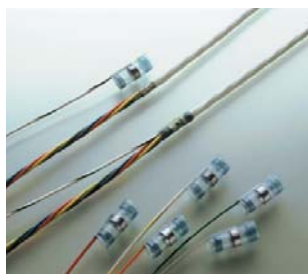
Raychem Insulated Terminals and Disconnects

- Reliable, repeatable and rugged
- Unparalleled termination techniques
- DuraSeal terminals protect against water, condensation, salt and corrosion
- Tough, heat-shrinkable nylon tubing resists abrasion and cut-through damage
- SolderGrip terminals utilize a copper coil that grips and compresses the conductors and allow a prefluxed solder ring to flow to the center of the splicing area
- SolderGrip polyvinylidene fluoride heat-shrinkable tubing protects the electrical joint and provides insulation and strain relief
- Order Catalog 1654025, “Raychem Wire and Cable, Harnessing and Protection Products”



Raychem Wire Termination to Pin/Post/Tab

- For applications with temperatures up to 150° C
- SolderSleeve discrete wire terminators are heat-shrinkable thermoplastic sleeves containing a precisely engineering fluxed solder preform
- Available on carrier tape, spaced precisely to match connector terminal spacing
- Provide reliability and economical installation for greater productivity
- Order Catalog 1654025, “Raychem Wire and Cable, Harnessing and Protection Products”



Raychem Shield Termination

- SolderSleeve shield grounding terminators provide an environmentally sealed, insulated, and encapsulated solder connection for a variety of applications
- Available in many styles
- For a wide variety of temperature applications ranging from –65° C to 200° C
- Order Catalog 1654025, “Wire and Cable, Harnessing and Protection Products”



Raychem Coaxial Cable Termination

- SolderSleeve coaxial cable terminators allow reliable, easy terminations in a variety of coaxial cable applications, including PCBs
- Insulating and strain-relieving capabilities of SolderSleeve terminators provide the ideal solution to center-conductor breakage problems
- SolderSleeve coaxial cable terminators allow reliable, economical attachment of coaxial cable to connector terminals, printed wiring assemblies or solderless wrap terminals
- One-piece SolderSleeve PCB coaxial cable terminators permit quick, easy and cost-effective terminations of coaxial cable to PCBs
- RF one-step BNC/TNC connectors are single-piece assemblies for terminating the center conductor and the braid of a broad range of coaxial cables
- Order Catalog 1654025, "Wire and Cable, Harnessing and Protection Products"



Raychem Cable-to-Cable Splicing

- SolderShield Shielded and coaxial cable splices
- Flux-coated, solder-impregnated copper shield braid encased in a transparent heat-shrinkable insulation sleeve provides a controlled soldering process, encapsulation, inspectability, strain relief, and insulation
- One-piece design provides easy installation and lower installed cost
- Circumferential shielding results in EMI protection and shield continuity equal to or better than the original cable
- Used for splicing a wide range of cables, including coaxial and multiconductor cables
- Order Catalog 1654025, "Wire and Cable, Harnessing and Protection Products"



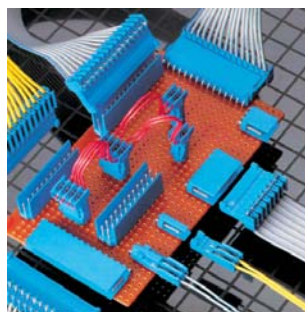
Raychem Shielded Contacts

- SolderTacts shielded contacts are reliable one-piece solder contacts
- Through-connector shielding reduces cross-talk and improves signal transmission
- One-step installation
- Solder joints are strong, reliable and fully inspectable
- Termination for coax cables, shielded wires, twisted pairs, and triaxial cables for a variety of commercial and military connectors
- Order Catalog 1654025, "Wire and Cable, Harnessing and Protection Products"



AMPMODU Interconnection System

- AMPMODU Micro Interconnect – High density, 0.8 mm (.031) centerline, dual-row connector system available in 4-40 positions
- AMPMODU 50/50 Grid – High-density, ribbon-cable-to-board, .050" x .050" (1.27 x 1.27) centerline, two-row connector system. Vertical and right-angle mating is possible with latching and non-latching housings.
- AMPMODU System 50 – High-density cable-to-board (ribbon or FFC), .050" x .100" (1.27 x 2.54) centerline single- and double-row connector system. Connectors have integral latches for positive locking to shrouded mating headers.
- AMPMODU .025" (0.64) Square – Provides a wide variety of wire-to-board interconnections on a modular .100" x .100" (2.54 x 2.54) centerline configuration. This includes MOD IV & V wire-applied crimp contacts and housings with three levels of contact mating pressures. Locking Clip crimp contacts and housings are available for high-vibration applications.
- AMPMODU MT and Shielded MT IDC -- Based on the same post size and centerline as the AMPMODU Interconnection System, but offers labor and cost savings through mass-termination insulation displacement contacts (IDC). Shielded version provides EMI/ESD protection.
- AMPMODU MTE – Utilizes the "Short Point" contact, available in IDC and crimp termination types. Latching capability provides positive retention between housings. Coupling shrouds permit ganging of receptacle assemblies for double-row configurations. Panel mount version available.
- AMPMODU .031" x .062" (0.79 x 1.57) -- Rugged single-row, wire-to-board connector system with crimp snap-in receptacles and vertical & right-angle headers featuring a current rating of 5 A max. per contact
- Order Catalog 1307819, "AMPMODU Interconnection System"



HE 13 / HE 14 2.5mm (.100") Centerline Interconnection System

- Receptacle assemblies preloaded with insulation displacement contacts to terminate discrete wires or 2.54mm centerline ribbon cables
- Receptacle housings receive crimp snap-in contacts to terminate discrete wires (straight exit)
- Headers provided for straight or right-angle mounting to be soldered onto 1.6mm thick printed circuit boards
- Protective header shrouds feature polarization and integrated detent latching
- SMT versions available
- Compliant to the CEI IEC 603-8 International Standard
- Order Catalog 1773393, "AMPMODU Interconnection System - European Standard Products"



AMP MTA IDC Connectors

- Insulation displacement contacts (IDC) provide economical interconnections
- Wire-to-board and wire-to-wire connections possible
- Connector housings color-coded by wire size
- MTA-50 – .050" (1.27 mm) centerline, 2-28 positions, 1 A, 30 VAC, 30-26 AWG (discrete wire, unshielded jacketed cable or ribbon cable)
- MTA-100 – .100" (2.54 mm) centerline, 2-28 positions, 5 A max., 250 VAC, 28-22 AWG (discrete wire or ribbon cable)
- MTA-156 -- .156" (3.96 mm) centerline, 2-24 positions, 7 A max., 600 VAC; Quad connectors for 12.5 A max., 26-18 AWG (discrete wire or ribbon cable)
- Order Catalog 82056, "MTA, CST-100 II, SL-156 and AMP Economy Power (EP) Connectors"



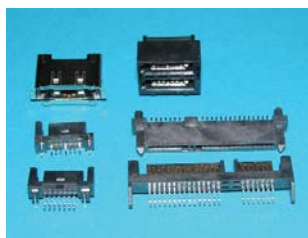
AMP CST-100 II & SL-156 Crimp Connectors

- These crimp-type connectors mate with AMP MTA Connector headers
- CST-100 II -- .100" (2.54 mm) centerline, wire-to-board, 2-28 positions, 4 A max., 250 VAC, 26-22 AWG (discrete wire); mates with specified MTA-100 and other manufacturers' notched headers
- SL-156 -- .156" (3.96 mm) centerline, wire-to-board, 1-24 positions, 10 A max., 250 VAC, 24-16 AWG (discrete wire); mates with specified MTA-156 headers and other manufacturers' .045" square or round post headers, or staked posts
- Order Catalog 82056, "MTA, CST-100 II, SL-156 and AMP Economy Power (EP) Connectors"



AMP Common Termination (CT) Connectors

- 2.0mm pitch
- SMT and through-hole headers available
- Pre-loaded housings available
- Various color options
- Order Catalog 124962, "Representative Terminals and Connectors"



AMP ATA Connectors

- Application: Disk Drive Market
- SCSI protocol dominates the Enterprise Storage Industry
- Product styles: HDD, board headers and disk drive connectors direct to backplane receptacles
- 22 P and 7P sizes in right-angle, vertical and stacked designs



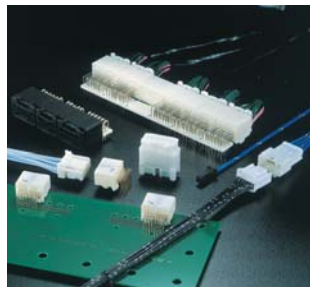
AMP Serial Attached SCSI (SAS) Connectors

- Application: Disk Drive Market—Next step in the SCSI evolutionary development
- Faster than SATA drives and offer these features: variable sector sizes, LED indicators, dual ports and data integrity
- Product Styles: HDD, multi-lane (4 lane) board headers and disk drive connectors direct to backplane receptacles
- 29 P and 32 P sizes in right-angle and vertical designs



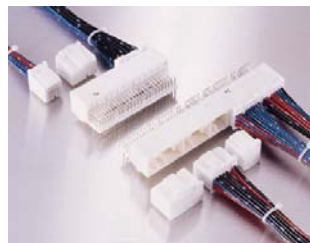
AMP Micro-Match Connectors

- Vertical and right-angle header configurations
- Board-to-board stacking possible
- Cable of terminating discrete wire
- Order Catalog 1307822, “Micro-Match Miniature Connector System”



AMP MULTILOCK .025 Connector Series

- Lanced contacts, tin or gold finish
- Wire range 0.2-0.5 mm square (24-20 AWG)
- Insulation range 0.95-1.7 mm diameter
- Unsealed
- Contact secondary locking
- Polarized mating
- Available 8-32 positions wire-to-wire and 8-40 positions wire-to-board
- Up to 5 A rating
- Order Catalog 124962, “Representative Terminals and Connectors”



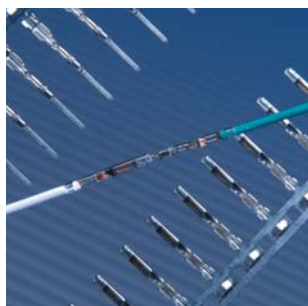
AMP MULTILOCK .040 Connector Series

- Wire-to-wire and wire-to-board
- Lanceless contacts, tin or gold finish
- Wire range 0.3-1.25 mm square (22-18 AWG)
- Insulation range 1.4-2.2 mm diameter
- Unsealed
- Contact secondary locking
- MK I available 2-20 positions wire-to-wire, 8-64 positions wire-to-board
- MK II available 8-6 positions wire-to-board
- MK III available 16-24 positions wire-to-wire, 16-44 positions wire-to-board
- Up to 5 A rating
- Order Catalog 124962, “Representative Terminals and Connectors”



AMP MULTILOCK .070 Connector Series

- Wire-to-wire and wire-to-board
- Lanceless contacts, tin or gold finish
- Wire range: 0.35-2.5 mm² (22-14 AWG)
- Insulation diameter: 1.2-3.0 mm (.047”-.118”)
- Unsealed
- Polarized mating
- Available: single-row, vertical type; single-row, horizontal type; double-row, vertical type; double-row, horizontal type
- Up to 14 A rating
- Order Catalog 124962, “Representative Terminals and Connectors”



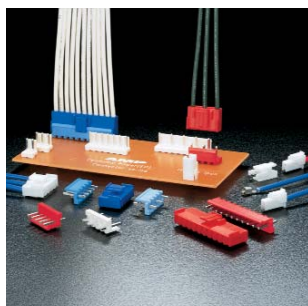
GET Connector System

- Product offering includes wire-to-wire, wire-to-board and wire-to-device configurations
- Worldwide applications for automotive interconnects (from connection for switches, clock springs, instrumental panel, etc., to airbag restraint module, power control module & other connections in the engine compartment)
- High range of pin count variants
- Unsealed & sealed connectors available (straight mate or lever actuated)
- Tangle free contact offered as tin and gold plating
- Female terminal accepts blades from 0.64 x 0.64 mm to 1.2 x 0.64 mm
- Order Catalog 889780, "Contact Systems"



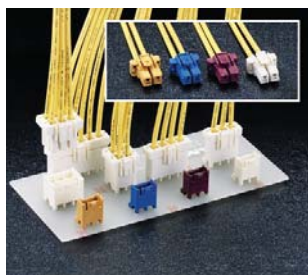
PRONER Connector Systems

- Power Terminals :
 - Low insertion force 6.35 (NG1, flag terminals, Microlock)
 - Low insertion force 8.0 mm (NG1, Microlock)
 - High Power Contacts (HPC, 2.8 NGP, ring terminals)
- Power Housings :
 - Sealed power housings (1 and 2 position 8.0 mm NG1)
 - Unsealed power housings (2 position 8.0 mm NG1; 3, 4 and 5 position 6.35 NG1)
- Order Catalog 889782, "Connections for Electrical and Electronic Devices"



AMP Economy Power (EP) Connectors

- .156" (3.96) centerline, 1 to 11 positions and .312" (7.92) centerline, 2 to 5 positions
- Ratings: 8 A max. (1 position), 7.5 A max. (2 to 12 positions); 250 VAC
- Nylon plug housings available in multiple colors
- Crimp contacts for discrete wire (22-18 AWG)
- Wire-to-board with low-profile mating height — .641" (16.3)
- Mating, thru-hole, straight post headers (.045" square posts)
- Polarized with positive latch for easier mating and unmating
- Plugs and headers intermateable with JST VH connectors
- Order Catalog 82056, "MTA, CST-100 II, SL-156 and AMP Economy Power (EP) Connectors"



AMP 5.0 mm Power Key Connectors

- 5.0 mm centerline
- Audible click signals proper mating
- Keying configuration helps prevent mismating
- Compact design offers mating height of .76" (19.4)
- Designed to exhaust air bubbles during potting (board coating)
- Order Catalog 124962, "Representative Terminals and Connectors"



AMP Dynamic Series Connectors

- Flexible power connector system provides wire-to-board, wire-to-panel and wire-to-wire interconnections through crimped receptacle & tab contacts and polarized & keyed housings
- D-2000 Series:
 - 2.5 mm centerline; 1-row, 2-row, drawer, and screw lock type housings
 - 250 V AC/DC; 5 A max. per position; 28-18 AWG
- D-3000 Series:
 - 3.81 mm and 5.08 mm centerlines
 - Standard 1-row, 2-row, modular; High pressure 1-row, 3-row, modular; Sensor; and Skyscraper type housings
 - 250 VAC (3.81 mm), 600 VAC (5.08 mm); 15 A max. per position; 28-14 AWG
- D-5200 Series:
 - 10.16 mm centerline
 - High pressure 1-row, modular; and High current type housings
 - 630 VAC; 20-8 AWG
- Order Catalog 1242132, "AMP Dynamic Series Connectors"



AMP Econoseal III Connectors .070 and .250

- Lanceless contacts, tin or gold finish
- Wire-to-board and wire-to-wire connection capability
- Wire range 0.5-3.0 mm square
- Insulation: thin wall 1.6 - 3.4 mm
- Sealed or unsealed
- Single wire seal or cavity plug
- Secondary contact locking
- Polarized mating
- Available 2-36 positions
- Up to 20 A rating
- Order Catalog 889780, "Contact Systems"



AMPSEAL 16 Connectors

- Plug and receptacle housing assemblies are available in 2, 3, 4, 6, 8, and 12 positions
- Targeted for off-road and heavy duty applications
- 1.6 mm pin & socket contact system per MIL-C-39029
- Minimum sealing ability of 35 kpa (5 psi)
- Vibration performance up to 24 G's
- 13 A current rating



AMP SUPERSEAL 1.5 SERIES Connector

- Lanceless contacts, tin or gold finish
- Wire range 0.35-2.5mm² (22-16 AWG)
- Insulation: diameter 1.2-3.3 mm (.047-.130)
- Sealed IP 67
- Single wire seal or cavity plug
- Contact secondary locking
- Polarized mating
- Available in 1 to 6 positions
- Up to 14 A rating
- Order Catalog 1654300, "Products & Technologies"



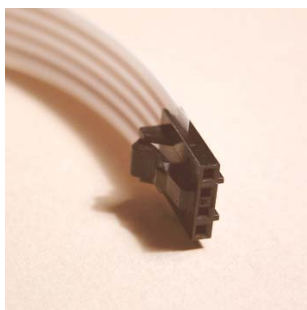
AMP Printed Circuit Board (PCB) Terminals and Disconnects

- Variety of devices that facilitate separable or permanent attachment of discrete wires to printed circuit boards; options include:
 - PCB mounted, soldered receptacles that accept components with pin contacts and wire-applied ring, spade, hook tongue and FASTON terminals
 - Insulation displacement terminals (soldered to the PCB) that accept one or two wires using insertion simple tooling
 - Discrete PCB mounted pins and mating wire-applied receptacles
 - Crimped terminals and connectors that secure single or multiple wires to a PCB before soldering
 - Power Taps providing high current (2.5 or 5 A per pin), separable wire-to-board connections. DIP format ACTION PIN contacts eliminate soldering.
- Order Catalog 82159, "Printed Circuit Board Terminals and Disconnects"



AMP FPC Cable Connectors

- Various pitch sizes available down to 0.3 mm
- Thru-hole and SMT options
- ZIF and non-ZIF options



AMP FFC Cable Connectors

- Tin and Gold plated contact solutions
- Multiple options for board termination
- Single- and dual-row configurations



AMP Flexcircuit Applications

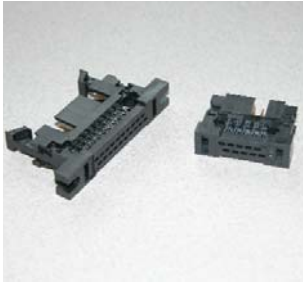
- Indirect Connection Systems
 - One unique multiple crimp contact design for FFC, exFFC, FPC and PTF
 - Current rating from signal to 30 A
 - Power contacts up to 110 A
 - Temperature range from -40°C to $+170^{\circ}\text{C}$
 - Application tooling from hand tool to fully automatic production equipment
- Direct Connection Systems
 - ZIF (Zero Insertion Force)
 - ZIFFCA
 - Current rating from signal to 10 A
 - Temperature range from -40°C to $+110^{\circ}\text{C}$
- Order Catalog 889780, "Contact Systems"

Wire-to-Board/Wire — Ribbon Cable



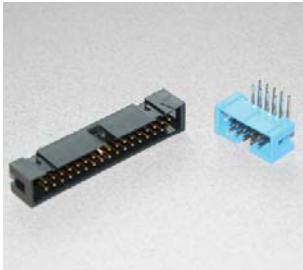
AMP-LATCH Novo Receptacle Connector

- .100" x .100" grid spacing
- IDC termination (terminates to 26-28 AWG solid and stranded wire)
- Mates with .025" square or roll posts
- Various position Sizes: 10-64
- Order Catalog 1307767, "Multi-User Systems"



AMP-LATCH Universal I/O Connector

- Terminates to .050" centerline ribbon cable
- Available with and without mounting ears and locking latches
- Various position sizes: 10-64
- Order Catalog 82012, "Ribbon Cable Systems"



AMP Low Profile Headers

- .100" x .100" grid spacing
- Available with and without eject latches
- Space savings through reduced profile height
- Various position sizes: 6-64
- Order Catalog 1307767, "Multi-User Systems"; 82012, "Ribbon Cable Systems"; 1370819, "AMPMODU Interconnection System"