

PRODUCT OVERVIEW

CONEC[®]
TECHNOLOGY IN CONNECTORS[™]





TECHNOLOGY IN CONNECTORS™

Industry 4.0, the current trend of increasing automation and data exchange in manufacturing environments, has resulted in new demands on electronic connectors.

More data, being transferred at faster speeds, and the need for high reliability in sometimes harsh environments, has forced the development of new connectors.

CONEC's over 40 years of experience positions us to be a world leader in these interconnect products.

CONEC is a global player with its own subsidiaries and/or production facilities in Canada, United States, China, Czech Republic, Poland, France and UK.

At the headquarters in Lippstadt, CONEC has a large Research and Development Department, its own tooling shop, a CNC precision turnery and a plastic injection moulding plant.

CONEC Germany, Lippstadt



CONEC Canada, Brampton



CONEC USA, Garner





In addition to a variety of connectors for all current standards, our particular strength is the development of customized solutions.

CONEC products are used in automation, telecommunications and energy technology, machine manufacturing, agriculture and medical technology, transportation and aviation industry.

Our synchronous production system "CONEC active" is based on the principles of lean production and is the key to our sustained success.

In particular, we consider one of our strengths to be in the field of integrated moulding of components and assemblies.

To us, absolute customer orientation means: To deliver the right product at the right time, in the right quantity and the right quality to the right place.



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Customized products



Benefits

- Space-saving by transmitting data and power with one cable
- Fast-locking with bayonet
- Connectors are only lockable in completely mated condition
- Degree of protection IP67
- Data element 360° shielded

Applications

- Drive technology
- Machine manufacturing
- Robotics
- Assembly and production lines
- Renewable energy
- Automation technology



| Characteristics | B12 | | |
|--|-------------|------------------|-------------|
| | overmoulded | field attachable | Receptacles |
| Coding | 1, 2 | 1, 2 | 1, 2 |
| Housing Type | Female | Female | Male |
| Gender mating face: Power = Female Ethernet = Male | ✓ | ✓ | ✓ |
| Gender mating face: Power = Male Ethernet = Female | ✓ | ✓ | ✓ |
| Shielding | | optional | |
| Configuration | axial | axial | axial |
| Number of poles data | 4 | | |
| Number of poles power | 2 | | |
| Current rating data contacts | 4 A @ 40 °C | | |
| Current rating power contacts | 10 A @ 40°C | | |
| Rated voltage data contacts | 24 V DC | | |
| Rated voltage power contacts | 60 V DC | | |
| Cable quality | TPU | | |
| Bayonet locking | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | |



Benefits

- Space-saving by transmitting data and power with one cable
- Fast-locking with bayonet
- Connectors are only lockable in completely mated condition
- Degree of protection IP67
- Data element 360° shielded

Applications

- Drive technology
- Machine manufacturing
- Robotics
- Assembly and production lines
- Renewable energy
- Automation technology



| Characteristics | B17 | | |
|--|-----------------------------------|------------------|-------------|
| | overmoulded | field attachable | Receptacles |
| Coding | 1, 2, 3 | 1, 2, 3 | 1, 2, 3 |
| Housing Type | Female | Female | Male |
| Gender mating face: Power = Female Ethernet = Male | ✓ | ✓ | ✓ |
| Gender mating face: Power = Male Ethernet = Female | ✓ | ✓ | ✓ |
| Shielding | | optional | |
| Configuration | axial | axial | axial |
| Number of poles data | 4 | | |
| Number of poles power | 2+PE, 3+PE, 4+PE | | |
| Current rating data contacts | 4 A @ 40 °C | | |
| Current rating power contacts | 14 A @ 40°C, 20 A @ 40°C | | |
| Rated voltage data contacts | 24 V DC | | |
| Rated voltage power contacts | 250 V AC/DC, 630 V AC/850 V DC | | |
| Cable quality | TPU | | |
| Bayonet locking | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | |



Benefits

- Space-saving by transmitting data and power with one cable
- Fast-locking with bayonet
- Connectors are only lockable in completely mated condition
- Adjustable direction of outlet (only receptacle angled)
- degree of protection IP67
- Data element 360° shielded

Applications

- Drive technology
- Machine manufacturing
- Robotics
- Assembly and production lines
- Renewable energy
- Automation technology



| Characteristics | B23 | | |
|--|---------------------------------|------------------|---------------|
| | overmoulded | field attachable | Receptacles |
| Coding | 1, 2, 3 | 1, 2, 3 | 1, 2, 3 |
| Housing Type | Female | Female | Male |
| Gender mating face: Power = Female Ethernet = Male | ✓ | ✓ | ✓ |
| Gender mating face: Power = Male Ethernet = Female | ✓ | ✓ | ✓ |
| Shielding | ✓ | optional | |
| Configuration | axial | axial | axial, angled |
| Number of poles data | 4 | | |
| Number of poles power | 3+PE + 2, 4+PE | | |
| Current rating data contacts | 4 A @ 40 °C | | |
| Current rating power contacts | 28 A + 20 A @ 40°C, 28 A @ 40°C | | |
| Rated voltage data contacts | 24 V DC | | |
| Rated voltage power contacts | 630 V AC/850 V DC | | |
| Cable quality | TPU | | |
| Bayonet locking | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | |



Benefits

- Space-saving by transmitting data and power with one cable
- Fast-locking with bayonet
- Connectors are only lockable in completely mated condition
- Degree of protection IP67
- Data element 360° shielded

Applications

- Drive technology
- Machine manufacturing
- Robotics
- Assembly and production lines
- Renewable energy
- Automation technology



| Characteristics | B40 | | |
|--|-------------------|------------------|------------------|
| | overmoulded | field attachable | Receptacles |
| Coding | 1, 2, 3, 4, 5, 6 | 1, 2, 3, 4, 5, 6 | 1, 2, 3, 4, 5, 6 |
| Housing Type | Female | Female | Male |
| Gender mating face: Power = Female Ethernet = Male | ✓ | ✓ | ✓ |
| Gender mating face: Power = Male Ethernet = Female | ✓ | ✓ | ✓ |
| Shielding | | optional | |
| Configuration | axial | axial | axial |
| Number of poles data | 4 | | |
| Number of poles power | 4+PE | | |
| Current rating data contacts | 4 A @ 40 °C | | |
| Current rating power contacts | 64 A @ 40°C | | |
| Rated voltage data contacts | 24 V DC | | |
| Rated voltage power contacts | 630 V AC/850 V DC | | |
| Cable quality | TPU | | |
| Bayonet locking | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | |



Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities

Applications

- Machine manufacturing
- Sensors and encoders
- Renewable energy
- Agricultural & construction machines
- Test devices and instruments
- Drive technology
- Communications
- Automation technology



| Characteristics | M8x1 | M12x1 | 7/8" | Round24 |
|--|---------------|-------------------|-----------------|---------------|
| Coding | A, B | A, C | | |
| Female Connector | ✓ | ✓ | ✓ | ✓ |
| Male Connector | ✓ | ✓ | ✓ | ✓ |
| Shielding | ✓ | ✓ | | |
| Configuration | axial, angled | axial, angled | axial, angled | axial, angled |
| Number of poles | 3, 4, 5, 8 | 3, 4, 5, 6, 8, 12 | 2+PE, 4, 4 + PE | 3+PE, 6+PE |
| LED Display | 2, 3 LED | 2, 3 LED | | |
| Cable quality | PVC, TPU | PVC, TPU | PVC, TPU | PVC |
| Screw termination with brass coupling screw/nut | ✓ | ✓ | ✓ | |
| Screw termination with die-cast coupling screw/nut | ✓ | ✓ | | |
| Screw termination with plastic coupling screw/nut | | ✓ | | ✓ |
| Snap-in termination | ✓ | | | |
| Screw-/Snap-in termination | ✓ | | | |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Mating can be controlled with torque wrench (M8, M12)
- Vibration proof screw lock
- Easy assembly without special tools
- Terminal cross section max. 1.5 mm² (M12)

Applications

- Machine manufacturing
- Industrial interfaces
- Cable Assembly
- Communications
- Medical
- Military
- Process automation
- Telecommunications
- Transport industry
- Sensors and encoders
- Renewable energy
- Agricultural & construction machines
- Test devices and instruments
- Drive technology
- Assembly and production lines



| Characteristics | M8x1 | M12x1 | 7/8" | Round24 |
|---|---------------------------|--------------------------|--------------------------|--------------------------|
| Coding | A | A | | |
| Female Connector | ✓ | ✓ | ✓ | ✓ |
| Male Connector | ✓ | ✓ | ✓ | ✓ |
| Shielding | ✓ | ✓ | | |
| Configuration | axial, angled | axial, angled | axial | axial, angled |
| Number of poles | 3, 4 | 4, 5, 8 | 2+PE, 4, 4+PE | 3+PE, 6+PE |
| Terminal cross section screw termination | max. 0.5 mm ² | max. 1.5 mm ² | max. 1.5 mm ² | max. 1.5 mm ² |
| Terminal cross section crimp termination | max. 0.34 mm ² | max.1.0 mm ² | | |
| Terminal cross section solder termination | max. 0.34 mm ² | | | |
| Terminal cross section clamp termination | max. 0.34 mm ² | | | |
| Screw termination with stainless steel coupling screw/nut | | ✓ | | |
| Screw termination with plastic coupling screw/nut | | | | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Front and back panel mounting
- Direct circuit board mounting
- High number of poles with minimum space requirements

Applications

- Drive technology
- Servo motors
- Frequency converters
- Rotary encoders
- Housing and device production
- Medical
- Test & Measurement devices
- Agricultural & construction machines
- Test devices and instruments
- Automation technology



| Characteristics | M8x1 | M12x1 | 7/8" |
|---|----------------------|------------------------------|---------------|
| Coding | A, B | A | |
| Female Connector | ✓ | ✓ | ✓ |
| Male Connector | ✓ | ✓ | ✓ |
| Shielding | ✓ | ✓ | |
| Configuration | axial, angled | axial, angled | axial |
| Number of poles | 3, 4, 5, 8 | 3, 4, 5, 6, 8, 12 | 2+PE, 4, 4+PE |
| Front panel mounting | ✓ | ✓ | ✓ |
| Back panel mounting | ✓ | ✓ | ✓ |
| Front panel mounting square | | ✓ | |
| Positionable | | ✓ | |
| Field attachable | | ✓ (Square, M20x1,5) | |
| LED Display | | 3 LED | |
| Thread | M8x0.5, M10x1, M12x1 | M16x1.5, PG9, M12x1, M20x1.5 | PG11, PG13.5 |
| Installation height | | depending on version | |
| Wire termination | ✓ | ✓ | ✓ |
| PCB-termination | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.

| Accessories | | | |
|---------------------------|---|---|---|
| Protection caps | ✓ | ✓ | ✓ |
| Protection caps with loop | ✓ | ✓ | ✓ |
| Lock nut | ✓ | ✓ | ✓ |



Benefits

- Front and back panel mounting
- Automatic placement for SMT versions
- Direct circuit board mounting
- High number of poles with minimum space requirements
- Removable
- Low forces on the board
- Low contact resistance on the shielding
- Large tolerance compensation between board and housing

Applications

- Drive technology
- Servo motors
- Frequency converters
- Rotary encoders
- Housing and device production
- Medical
- Test & Measurement devices
- Agricultural & construction machines
- Test devices and instruments
- Communications
- Automation technology



| Characteristics | M8x1 | M12x1 |
|---|--------------------------|-----------------|
| Coding | A, B | A |
| Female Connector | ✓ | ✓ |
| Male Connector | ✓ | ✓ |
| Unshielded | ✓ | ✓ |
| Shielded | ✓ | ✓ |
| Configuration | axial | axial |
| Number of poles | 3, 4, 5, 8 | 4, 5, 8 |
| Front panel mounting | ✓ | ✓ |
| Back panel mounting | ✓ | |
| Thread | M8x1 M10x1 M12x1 | M14x1 |
| Installation Height | 6 mm, 9 mm, 10 mm, 13 mm | 9 mm, 13 mm |
| SMT mounting | ✓ | ✓ |
| THR mounting | ✓ | ✓ (only X-cod.) |
| Reflow soldering | | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Easy installation in housing by pushing in
- Low installation height
- Various connection possibilities

Applications

- Sensors
- Housing and device production



| Characteristics | M8x1 | M12x1 |
|--|---|---------|
| Coding | A | A |
| Female Connector | ✓ | |
| Male Connector | ✓ | ✓ |
| Shielding | ✓ | |
| Configuration | axial | axial |
| Number of poles | 3, 4 | 4, 5, 8 |
| Housing material | Plastic Metal/plastic transparent Metal | Plastic |
| Solder termination | ✓ | ✓ |
| PCB-termination | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Transmission of high currents on minimum space requirements
- Polarity reversal prevented with coded insulators
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock

Applications

- Machine manufacturing
- Sensors and encoders
- Renewable energy
- Agricultural & construction machines
- Test devices and instruments
- Drive technology
- Automation technology



| Characteristics | M12x1 | | 7/8" | | Round24 overmoulded |
|---|---|---|---------------------|---------------------|---------------------|
| | overmoulded | Sockets | overmoulded | Sockets | |
| Coding | L, S, T | L, S, T | | | |
| Female Connector | ✓ | ✓ | ✓ | ✓ | ✓ |
| Male Connector | ✓ | ✓ | ✓ | ✓ | ✓ |
| Configuration | axial, angled (L-cod.) | axial, angled (L-/T-cod.) | axial, angled | axial | axial |
| Number of poles | 3, 4, 2+PE, 3+PE, 4+FE | 3, 4, 2+PE, 3+PE, 4+FE | 2+PE, 4+PE, | 2+PE, 4+PE | 3+PE, 6+PE |
| Terminal cross section | 1.5 mm ² / 2.5 mm ² (L-cod.) | 1.5 mm ² / 2.5 mm ² (L-cod.) | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Screw termination with brass coupling screw/nut | ✓ | | ✓ | | |
| Wire termination | | ✓ | ✓ | ✓ | ✓ |
| PCB-termination | | ✓ (L-/T-cod. angled) | ✓ | ✓ | |
| With cable | ✓ | | ✓ | | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures (HT)

Applications

- Dairies, cheese factories
- Food Processing industry
- Beverage bottling/filling plants
- Drive technology
- Plastics injection molding plant



| Characteristics | M8x1 | | M12x1 | |
|---|------------------|------------------|-----------------------------|-----------------------------|
| | overmoulded | Sockets | overmoulded | Sockets |
| Coding | A | A | A | A |
| Female Connector | ✓ | ✓ | ✓ | ✓ |
| Male Connector | ✓ | | ✓ | |
| Configuration | axial, angled | axial | axial, angled | axial |
| High Temperature | | | ✓ | ✓ |
| Food & Beverage | ✓ | ✓ | ✓ | ✓ |
| Number of poles | 3, 4 | 3, 4 | 4, 5 | 4, 5 |
| Display | 2, 3 LED | | 3 LED | |
| Mounting thread | | M8x0.5 | | M16x1.5, PG9 |
| Cable quality | PP orange | | PP orange, TPE irradiated | |
| Wire termination | | ✓ | | ✓ |
| Degree of protection (in mated condition) | IP67/IP69K (F&B) | IP67/IP69K (F&B) | IP65 (HT), IP67/IP69K (F&B) | IP65 (HT), IP67/IP69K (F&B) |

The table just shows a general overview. Some variants might not be available.



Benefits

- Robust design with minimum space requirements
- Vibration proof screw lock
- SMT versions for automatic placement
- High data transmission up to 10 Gbit/s (X-cod.)
- Flexible cabling in the field by field attachable variants

Applications

- Assembly and production lines
- Process automation
- Building automation
- Security and surveillance systems
- Industrial interfaces
- Cable Assembly
- Communications
- Medical
- Military
- Telecommunications
- Transport industry
- Automation technology



| Characteristics | M8x1 | | | | M12x1 | | | | RJ45 |
|---|---------------|------------------|---------------|---------|---------------|-------------------------------|---------------|---------|-------------|
| | overmoulded | field attachable | Sockets | SMT/THR | overmoulded | field attachable | Sockets | SMT/THR | |
| Coding | D, P | D, P | D, P | D, P | A, B, D, X | B, D, X | A, B, D, X | D, X | |
| Female Connector | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Male Connector | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Configuration | axial, angled | axial | axial, angled | axial | axial, angled | axial, angled (B- und D-cod.) | axial, angled | axial | axial |
| Profibus DP | | | | | ✓ | ✓ | ✓ | | |
| Industrial Ethernet 100 MHz | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ |
| 10 Gigabit Ethernet (x-coded) | | | | | ✓ | ✓ | ✓ | | |
| DeviceNet | | | | | ✓ | ✓ | ✓ | ✓ | |
| CAN-Bus | | | | | ✓ | | ✓ | | |
| Number of poles | 4 | 4 | 4 | 4 | 4, 8 | 4, 8 | 4, 8 | 8 | 4, 8 |
| Solder termination | | ✓ | | | | | | | |
| Screw termination | | ✓ | | | | ✓ | | | |
| Clamp termination | | ✓ | | | | ✓ | | | |
| Crimp termination | | ✓ | | | | ✓ | | | |
| Wire termination | | | | | | | ✓ | | |
| PCB termination | | | ✓ | | | | ✓ | | |
| IDC termination | | | | | | | | | ✓ |
| With wire | ✓ | | ✓ | | ✓ | | ✓ | | ✓ |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 | IP20 / IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip

Applications

- Machine manufacturing
- Assembly and production lines
- Renewable energy
- Drive technology



| Characteristics | M12x1 / M8x1 Y-Splitter | M12x1 Duo-Splitter | T-Splitter |
|---|---------------------------------|--------------------|------------|
| Coding | A | A | A |
| Installation size | M12x1, M8x1 | M12x1, M8x1 | M12x1 |
| Number of poles | 3, 4, 5, 8 | 3, 4, 5 | 4, 5, 8 |
| Protective circuit | 1:1 wiring, signal distribution | | |
| possible cable outlets | 3 | 2 | 1 |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.

| Accessories | | | |
|-----------------|---|---|---|
| Protection caps | ✓ | ✓ | ✓ |
| Retaining clip | | | ✓ |



Benefits

- Compact design
- Continuous protection from the connector housing to the cable
- Degree of protection: IP67/IP69K
- Version for single wires (2-pos., DT, Superseal)
- Standard mounting options remain (DT, Superseal)
- Cover for protection against pollution (ISOBUS)
- Double outlet to split into 2 connections
- Termination plug (DT, Superseal)

Applications

- Agricultural & construction machines
- Transport industry
- Emergency vehicles
- Process control



| Characteristics | DT-Serie | Superseal 1.5 | ISOBUS |
|--|-------------------------|--------------------|---|
| Number of poles | 2, 3, 4, 6, 8, 12 | 2, 3, 4, 5, 6 | 9 |
| Male Connector | ✓ | ✓ | ✓ |
| Female Connector | ✓ | ✓ | ✓ |
| Overmould | TPU | TPU | TPU |
| Cable quality | PUR / PVC, up to AWG 18 | PUR, AWG 18 | PUR, Hybrid |
| Single wires possible | ✓ (2-pos.) | ✓ (2-pos.) | |
| Flexible protection tube termination with M12 thread | ✓ | | |
| Termination double-outlet hose nozzle | ✓ (2-, 4-, 6-pos.) | ✓ (2-, 3-, 4-pos.) | |
| Corrugated tube | | | ✓ |
| Termination plug | ✓ | ✓ | |
| Optional wit LED & protection circuit | ✓ (2-, 3-pos.) | | |
| Current rating (depending on cable and protection circuit) | up to 13 A | up to 14 A | up to 16 mm ² 60 A x2 10 mm ² 35 A x2 6 mm ² 25 A x2 2.5 mm ² 15 A x2 0.5 mm ² 5 A x5 |
| Degree of protection (in mated condition) | IP67/IP69K | IP67/IP69K | IP67/IP69K |

The table just shows a general overview. Some variants might not be available.



Benefits

- Reduction of installation costs
- Fully protected cable harnesses
- Space saving design
- Robust design with minimum space requirements
- Different mounting options

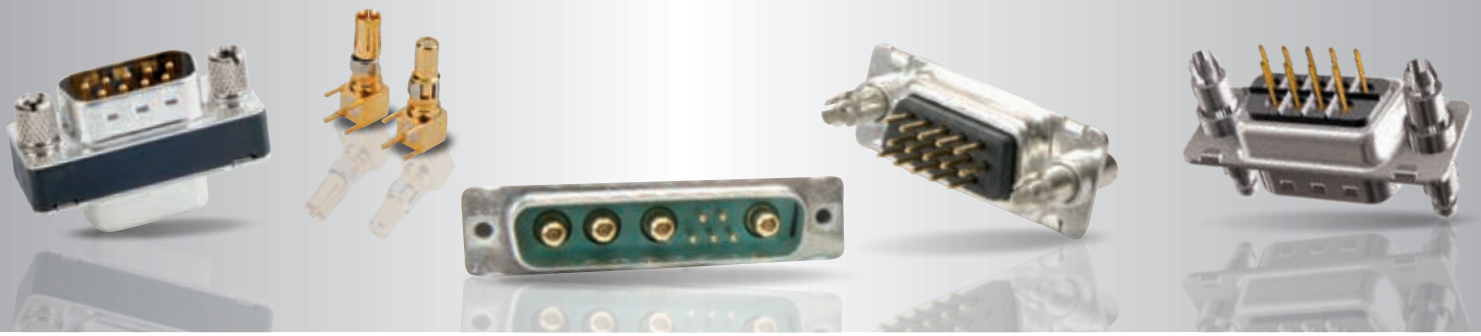
Applications

- Agricultural & construction machines
- Transport industry
- Emergency vehicles
- Process control



| Characteristics | Type S | Type M | Type L |
|---|-----------------|-----------------|---------------------------------------|
| Dimensions (L x W x H mm) | 66 x 30 x 15 | 66 x 40 x 15 | 76 x 55 x 22 |
| Cable entries | 1, 2 | 1, 2, 3 | 1 |
| Cable exits | 1, 2 | 1, 2, 3 | 3, 4 |
| Overmould | TPU UL94 V-0 | TPU UL94 V-0 | TPU UL94 V-0 |
| For use with connector series: | | | |
| DT | ✓ | ✓ | ✓ |
| Superseal | ✓ | ✓ | ✓ |
| M8 | ✓ | ✓ | ✓ |
| M12 | ✓ | ✓ | ✓ |
| D-Sub | ✓ | ✓ | ✓ |
| ISOBUS | | | ✓ |
| Cable quality | PUR (0.75 mm²)* | PUR (0.75 mm²)* | PUR (Hybrid)* |
| Max. cable diameter entry | 8 mm | 8 mm | 17 mm |
| Max. cable diameter exit | 8 mm | 8 mm | 13 mm (3 Outlets) 8 mm (4 Outlets) |
| Degree of protection (in mated condition) | IP67 | IP67 | IP67 |

* other cable qualities on request



Benefits

- One interface for power, RF and control signals
- Quick and easy locking and unlocking (SnapLock)
- Space-saving
- Cost saving – all in one connector
- Low magnetic versions
- Customer-specific solutions possible

Applications

- Process control
- Control systems
- Telecommunications
- Medical
- Power supplies
- Test and measurement devices
- Transport industry



| Characteristics | D-SUB Standard | D-SUB High Density | D-SUB Combination | D-SUB Combination High Density |
|--|---|--------------------|---------------------------------------|-------------------------------------|
| Shell | Steel tin plated, Brass tin plated, Stainless steel | | | |
| Number of poles | 9, 15, 25, 37, 50 | 15, 26, 44, 62, 78 | 21 different layouts | 19W1, 15W4, 45W2 |
| Solder pin straight | ✓ | ✓ | ✓ | ✓ |
| Solder pin angled | ✓ | ✓ | ✓ | ✓ |
| Press-fit contact straight | ✓ | ✓ | ✓ | |
| Solder cup | ✓ | ✓ | ✓ | ✓ |
| Wire Wrap | ✓ | | ✓ | |
| Crimp body (without contacts) | ✓ | ✓ | ✓ | |
| IDC for flat ribbon cable | ✓ | | | |
| Interface adapter | ✓ | ✓ | | |
| Current rating | up to 7.5 A | up to 3 A | up to 7.5 A (Signal), 40 A (Power) | up to 3 A (Signal), 40 A (Power) |
| Contact plating | Gold over nickel | | | |
| Quality class | 1 + 3 | | | |
| Degree of protection (in mated condition) | IP20 | | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Filtering directly at interface
- Can be used without PCB redesign
- Filter-adapter for retrofitting existing systems
- Up to 3-step low-pass filters
- Selective filtering
- Mixed capacitances
- Low magnetic versions

Applications

- Medical
- Telecommunications
- Test and diagnostic devices
- Power supplies
- Industrial interfaces
- Military



| Characteristics | Filter D-SUB Standard | Filter D-SUB High Density | Filter D-SUB Combination |
|---|------------------------------------|---------------------------|------------------------------------|
| Shell | Steel tin plated, Brass tin plated | | |
| Number of poles | 9, 15, 25, 37, 50 | 15, 26, 44, 62, 78 | 2W2C, 3W3, 3W3C, 5W5, 8W8 |
| Solder pin straight | ✓ | ✓ | ✓ |
| Solder pin angled | ✓ | ✓ | ✓ |
| Press-fit contact straight | | | ✓ |
| Solder cup | ✓ | ✓ | ✓ |
| Interface adapter | ✓ | ✓ | |
| C-Filter | up to 33 nF | up to 1000 pF | up to 100 nF |
| LC-Filter | up to 33 nF | up to 1000 pF | |
| Pi-Filter | up to 2600 pF | | |
| DWV | up to 1500 V DC | up to 300 V DC | up to 1500 V DC |
| Current rating | up to 7.5 A | up to 3 A | up to 7.5 A (Signal), 40 A (Power) |
| Rated voltage | 100 V DC | | |
| Contact plating | Gold over nickel | | |
| Quality class | 1 + 3 | | |
| Degree of protection (in mated condition) | IP20 | | |

The table just shows a general overview. Some variants might not be available.

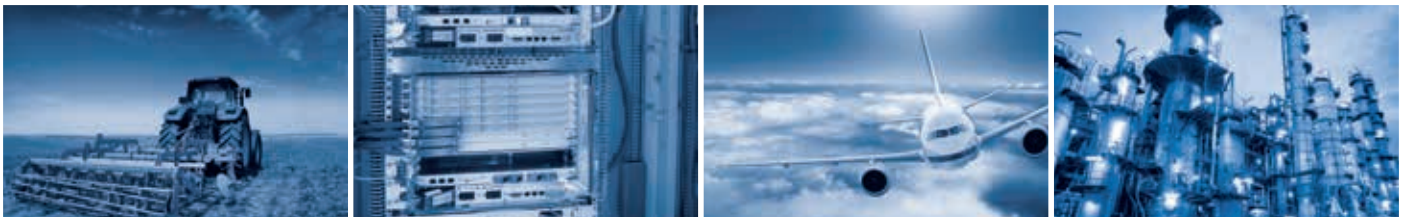


Benefits

- Cable entry: straight, lateral, multiple
- Large space for combination D-SUB
- CONEC SnapLock for fast and secured locking
- Screw latching or slide locking
- Touch protection of termination side
- For round and flat ribbon cables

Applications

- Aviation
- Telecommunications
- Industrial plants
- Transportation industry
- Cable assembly



| Characteristics | Metal Hood | Plastic Hood metallized | Plastic Hood | Protection cap plastic | Protection cap metal |
|---|-------------------|-------------------------|--------------|------------------------|----------------------|
| Shell size 1-5 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shielding | | | ✓ | | |
| Lanyard | | | | | ✓ |
| Large assembly space | | ✓ | ✓ | | |
| Cable entry | | | | | |
| Straight | ✓ | ✓ | ✓ | | |
| Side | ✓ | ✓ | ✓ | | |
| Multiple | ✓ | ✓ | ✓ | | |
| Degree of protection (in mated condition) | IP20 | | | | |
| Fastening | | | | | |
| Without screws | depending on type | | | | |
| Short screws | | | | | |
| Jack screws | | | | | |
| For flat ribbon cable | | | | | |
| Cable to cable connection | | | | | |
| With slide lock | | | | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Use in harsh environments
- Front and back panel mounting
- Solid body (robust, single-part connector housing)
- Increased corrosion protection
- Precision machined contacts
- SlimCon (compact size)
- Suitable for post overmolding (CONEC SlimCon Solder cup)

Applications

- GPS Navigation
- Renewable energy
- Security and surveillance systems
- Military
- Aviation
- Communications
- Industrial interfaces
- Cable assembly
- Housing and device production
- Medical
- Process automation
- Control systems
- Process control
- Transport industry



| Characteristics | IP67 D-SUB Standard | IP67 D-SUB High Density | IP67 D-SUB Combination | IP67 D-SUB Combination High Density |
|--|---------------------|-------------------------|---------------------------------------|-------------------------------------|
| Shell Brass tin plated | ✓ | ✓ | ✓ | ✓ |
| Shell Stainless steel | ✓ | ✓ | ✓ | ✓ |
| Solid Body (one piece shell) Zinc die-cast nickel plated | ✓ | ✓ | ✓ | ✓ |
| CONEC SlimCon (Size1 - 3) | ✓ | ✓ | ✓ | ✓ |
| Number of poles | 9, 15, 25, 37, 50 | 15, 26, 44, 62, 78 | 21 different Layouts | 19W1, 15W4, 45W2 |
| Solder pin straight | ✓ | ✓ | ✓ | ✓ |
| Solder pin angled | ✓ | ✓ | ✓ | ✓ |
| Solder cup | ✓ | ✓ | ✓ | ✓ |
| Interface adapter | ✓ | ✓ | | |
| Current rating | up to 7.5 A | up to 3 A | up to 7.5 A (Signal), 40 A (Power) | up to 3 A (Signal), 40 A (Power) |
| Contact plating | Gold over nickel | | | |
| Quality class | 1 + 3 | | | |
| Degree of protection (in mated condition) | IP67 | | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Filtering directly at interface
- Can be used without PCB redesign
- Use in harsh environments
- Selective filtering
- Mixed capacitance
- Low magnetic versions
- CONEC SlimCon either Silicone or EMC sealing

Applications

- Medical
- Telecommunications
- Test and diagnostic devices
- Power supplies
- Industrial interfaces
- Military
- Aviation



| Characteristics | IP67 Filter D-SUB Standard | IP67 Filter D-SUB High Density | IP67 Filter D-SUB CONEC SlimCon |
|---|----------------------------|--------------------------------|---------------------------------|
| Shell | Brass tin plated | | Zinc die-cast nickel plated |
| Panel sealing | O-Ring | | Sealing gasket |
| Number of poles | 9, 15, 25, 37, 50 | 15, 26, 44, 62, 78 | 9, 15, 25 |
| Solder pin straight | ✓ | ✓ | ✓ |
| Solder pin angled | ✓ | ✓ | |
| Solder cup | ✓ | ✓ | ✓ |
| Filter type | | | |
| C-Filter | up to 1300 pF | up to 1000 pF | up to 1200 pF |
| DVV | 424 V DC | 300 V DC | 424 V DC |
| Current rating | 7.5 A | 3 A | 5 A |
| Rated voltage | 100 V DC | | |
| Contact plating | Gold over nickel | | |
| Quality class | 1 + 3 | | |
| Degree of protection (in mated condition) | IP67 | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Compact design
- Integrated cable gland
- Large space for combination D-SUB
- With shield connection
- UV resistant
- Assembly without special tools

Applications

- Aviation
- Telecommunications
- Renewable energy
- Automation technology
- Security and surveillance systems



| Characteristics | Plastic Hood black | Plastic Hood metallized | Protection cap metal design |
|---|----------------------------------|----------------------------------|----------------------------------|
| Shell size 1-5 | ✓ | ✓ | ✓ |
| Suitable for | D-SUB, HD-SUB, Combination D-SUB | D-SUB, HD-SUB, Combination D-SUB | D-SUB, HD-SUB, Combination D-SUB |
| Lanyard shielded | | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | |
| Short screws | ✓ | ✓ | ✓ |
| Jack screws | ✓ | ✓ | ✓ |

The table just shows a general overview. Some variants might not be available.



Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Cable to cable connection
- High current transmission

Applications

- Telecommunications
- Renewable energy
- Transport industry
- Machine manufacturing
- Security and surveillance systems



| Characteristics | 2-pos. | 2+PE pos. |
|--|--|-------------|
| Cable connector socket | ✓ | ✓ |
| Panel connector socket | ✓ | ✓ |
| Cable connector plug | ✓ | ✓ |
| Panel connector plug | ✓ | ✓ |
| Shell | Plastic black | |
| Cable glands and fitting | Plastic black; UL94 V-0; UL(f1) rated | |
| Contact plating | Mating area: Gold over nickel Termination area: Tin over nickel | |
| Bayonet locking | ✓ | |
| Crimp termination | AWG 10 - 12 | AWG 12 - 14 |
| Current rating | 30 A | 20 A |
| Working voltage | 48 V | 300 V |
| Degree of protection (in mated condition) | IP67 | |

The table just shows a general overview. Some variants might not be available.

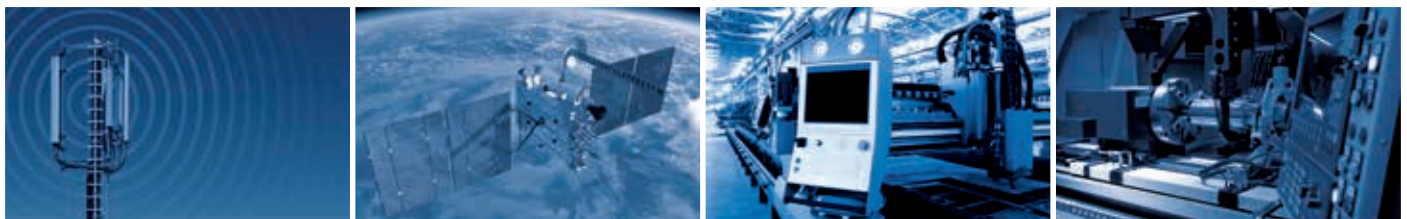


Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- UV resistant
- Light-weight versions
- Colored interface encoding available
- Cat. 6 A variants up to 10 GBit /s

Applications

- Machine manufacturing
- Security and surveillance systems
- Telecommunications
- Transport industry
- Renewable energy
- Test devices and instruments
- GPS Navigation



| Characteristics | Panel mount receptacle | Inline Coupler | Plug Connector Set | Patch cord | Protection cap |
|--|------------------------|----------------|--------------------|------------|----------------|
| Plastic | ✓ | ✓ | ✓ | ✓ | ✓ |
| Plastic metallized | ✓ | ✓ | ✓ | ✓ | ✓ |
| Zinc die-cast | ✓ | | ✓ | ✓ | ✓ |
| Bayonet locking | ✓ | double sided | ✓ | ✓ | ✓ |
| M28 thread | ✓ | | ✓ | ✓ | ✓ |
| Soldering termination | ✓ | | ✓ | | |
| IDC | ✓ | | ✓ | | |
| Screw termination | ✓ | | | | |
| Adapter | ✓ | ✓ | | | |
| Front panel mounting | ✓ | ✓ | | | |
| Back panel mounting | ✓ | ✓ | | | |
| UTP Cat. 5e Indoor/Outdoor | | | ✓ | ✓ | |
| STP Cat. 5e Indoor/Outdoor | | | ✓ | ✓ | |
| S/STP Cat. 6A | ✓ | ✓ | ✓ | ✓ | |
| With shielding | ✓ | ✓ | ✓ | ✓ | |
| Without shielding | ✓ | ✓ | ✓ | ✓ | |
| Degree of protection (in mated condition) | | IP67 | | IP20/IP67 | IP67 |

The table just shows a general overview. Some variants might not be available.



Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting (Type A)
- UV resistant
- USB memory Stick 2 GB integrated into protection cap
- Light-weight versions ideal for portable devices
- USB 3.0 variant

Applications

- Machine manufacturing
- Wireless controller
- Bluetooth adapter
- Process control



| Characteristics | USB 2.0 Type A | | Mini USB 2.0 Type B | USB 3.0 Type A |
|--|----------------|----------|---------------------|----------------|
| | Single | Dualport | | |
| Plastic | ✓ | ✓ | ✓ | ✓ |
| Plastic metallized | ✓ | | | ✓ |
| Metal | ✓ | | | |
| Panel mount receptacle | ✓ | ✓ | ✓ | ✓ |
| Inline Coupler bayonet locking double sided | ✓ | | | |
| Plug Connector Set | ✓ | | | ✓ |
| Patch cord | ✓ | | ✓ | ✓ |
| Protection cap | ✓ | ✓ | ✓ | ✓ |
| USB 2.0 with memory stick | ✓ | | | |
| Adapter | ✓ | | | ✓ |
| Bayonet locking | ✓ | | ✓ | ✓ |
| M28 thread | ✓ | ✓ | | |
| Solder termination | ✓ | | | |
| Adapter | ✓ | | | ✓ |
| PCB solder termination | | ✓ | ✓ | |
| Shielded | ✓ | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP67 | | | |
| IP20 [Patch cord] | ✓ | | ✓ | ✓ |
| IP67 | ✓ | | ✓ | ✓ |

The table just shows a general overview. Some variants might not be available.



Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Extended temperature range
- Interference-free safe data transmission
- Cost efficiency by integrated IP67 protection

Applications

- Telecommunications
- Industrial Ethernet
- Fiber to the home
- Fiber to the antenna
- Renewable energy



| Characteristics | Panel mount receptacle | Inline Coupler | Plug Connector Set | Patch cord | Protection cap |
|---|------------------------|----------------|--------------------|------------|----------------|
| Plastic | ✓ | ✓ | ✓ | ✓ | ✓ |
| Plastic metallized | | ✓ | | | |
| Zinc die-cast | ✓ | | ✓ | ✓ | ✓ |
| Bayonet locking | ✓ | double sided | ✓ | ✓ | ✓ |
| Single Mode | ✓ | ✓ | ✓ | ✓ | |
| Multi Mode | ✓ | ✓ | ✓ | ✓ | |
| APC Single Mode | ✓ | ✓ | ✓ | ✓ | |
| Front panel mounting | ✓ | ✓ | | | |
| Back panel mounting | ✓ | ✓ | | | |
| Degree of protection (in mated condition) | IP67 | | | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Hybrid adapters
- Clip or panel mounting
- Metal or plastic housings
- Ceramic or phosphor-bronze sleeves
- Shutter port protection (SC, LC)

Applications

- Telecommunications
- Network technology



| Characteristics | LC | SC | ST | FC | SC/FT | SC/FC | FC/ST |
|--|------|----|----|----|-------|-------|-------|
| Plastic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Zinc die-cast | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Version | | | | | | | |
| Simplex | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Duplex | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Sleeve | | | | | | | |
| Ceramic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multi Mode Ceramic, Phosphor bronze | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| APC Single Mode Ceramic | ✓ | ✓ | ✓ | ✓ | | | |
| Fastening | | | | | | | |
| Snap in | ✓ | ✓ | | | ✓ | ✓ | |
| Screw version | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Degree of protection (in mated condition) | IP20 | | | | | | |

The table just shows a general overview. Some variants might not be available.

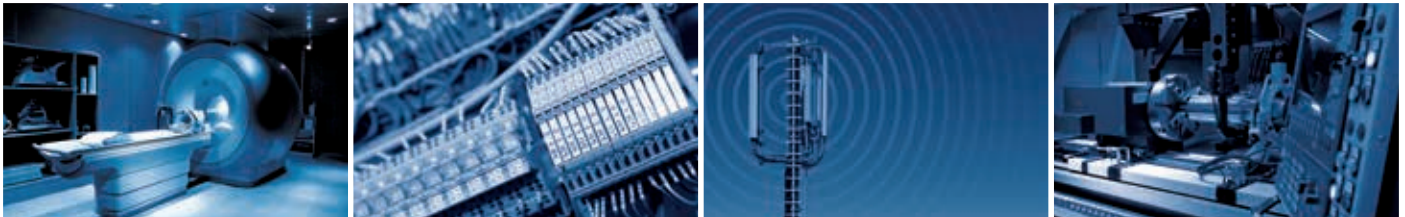


Benefits

- Stamped flexible press-fit zone
- Selective contact assembly upon request
- First and last mate contacts
- Inverted versions
- Touch-safe crimp connections

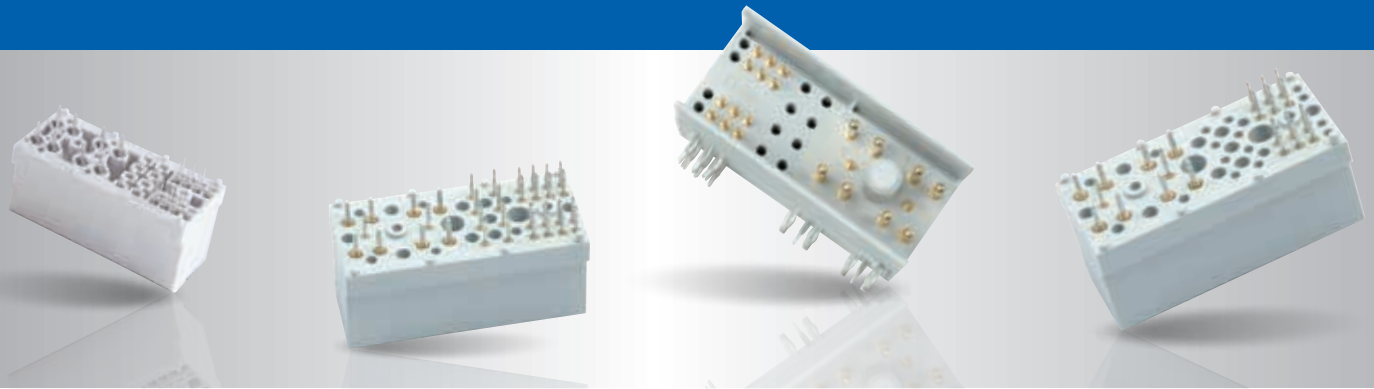
Applications

- IT
- Process control
- Medical
- Telecommunications



| Characteristics | 38-pos. | | 47-pos. | | 24-pos. | | 26-pos. | |
|-------------------------------|--------------------|--------|--------------------|--------|-------------------|--------|--------------------|--------|
| | Pin | Socket | Pin | Socket | Pin | Socket | Pin | Socket |
| Precision machined contacts | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| Stamped contacts | | ✓ | | ✓ | | ✓ | | ✓ |
| Current rating Power | up to 40 A | | | | up to 45 A | | up to 34 A | |
| Current rating Signal | up to 5 A | | up to 3 A | | up to 3 A | | up to 3 A | |
| Contact layout | 23 Power/15 Signal | | 23 Power/24 Signal | | 9 Power/15 Signal | | 11 Power/15 Signal | |
| Solder pin straight | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solder pin angled | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| Press-fit contact straight | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Crimp body (without contacts) | | ✓ | | ✓ | | | | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Compact design
- First and last mate contacts
- Stamped flexible press-fit zone
- Selective contact assembly upon request
- Reserve contacts for system expansion
- Safe mating by integrated GuidePin

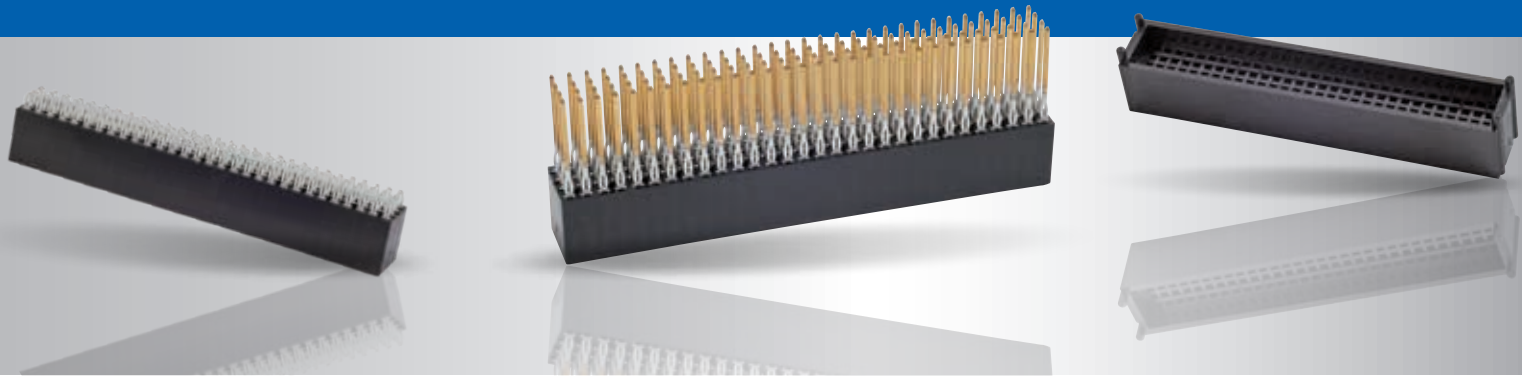
Applications

- Telecommunications
- Medical
- Network technology
- Server applications
- Electronic packaging



| Characteristics | 22-, 30-, 34-pos. | |
|-----------------------------|-------------------|--------|
| | Pin | Socket |
| Precision machined contacts | ✓ | ✓ |
| Stamped contacts | | ✓ |
| Current rating Power | up to 30 A | |
| Current rating Signal | up to 2 A | |
| Contact layout | 8 Power/26 Signal | |
| Solder pin straight | | ✓ |
| Solder pin angled | ✓ | |
| Press-fit contact | ✓ | ✓ |

The table just shows a general overview. Some variants might not be available.



Benefits

- Press-fit technology with flexible press-fit zone
- Stackable systems according to PC104 standard
- Different number of positions upon request

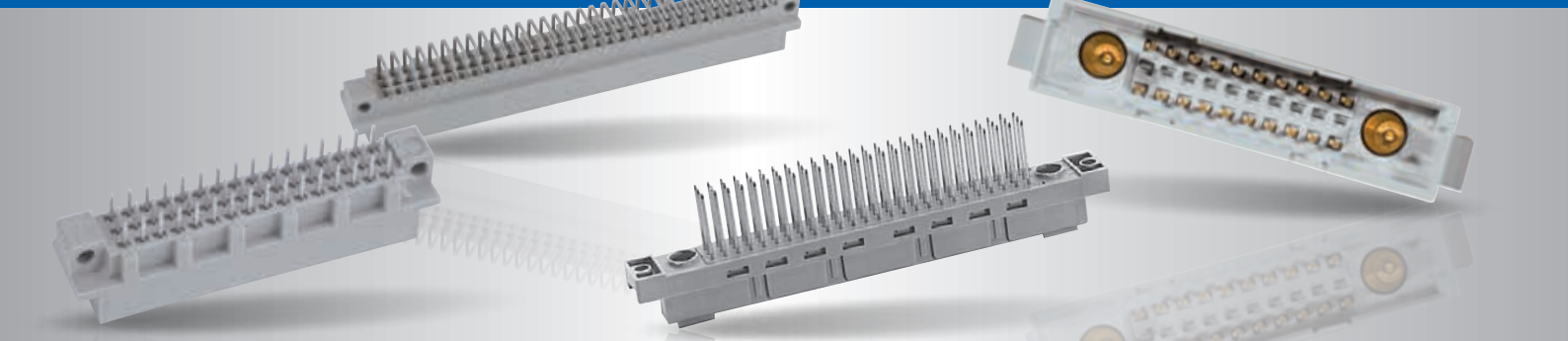
Applications

- Process control
- "Embedded computing"
- Industrial PCs
- Medical
- Military



| Characteristics | PC104 | PC104Plus |
|----------------------------|-------------------------|-----------|
| Number of positions | 40, 64, up to 100 | 120 |
| Insulator | PBT GF | |
| Contacts | Copper alloy | |
| Press-fit contact straight | ✓ | ✓ |
| Solder pin straight | ✓ | ✓ |

The table just shows a general overview. Some variants might not be available.



Benefits

- Special assemblies possible
- Various contact surface platings
- Compact design (mixed pin connector)

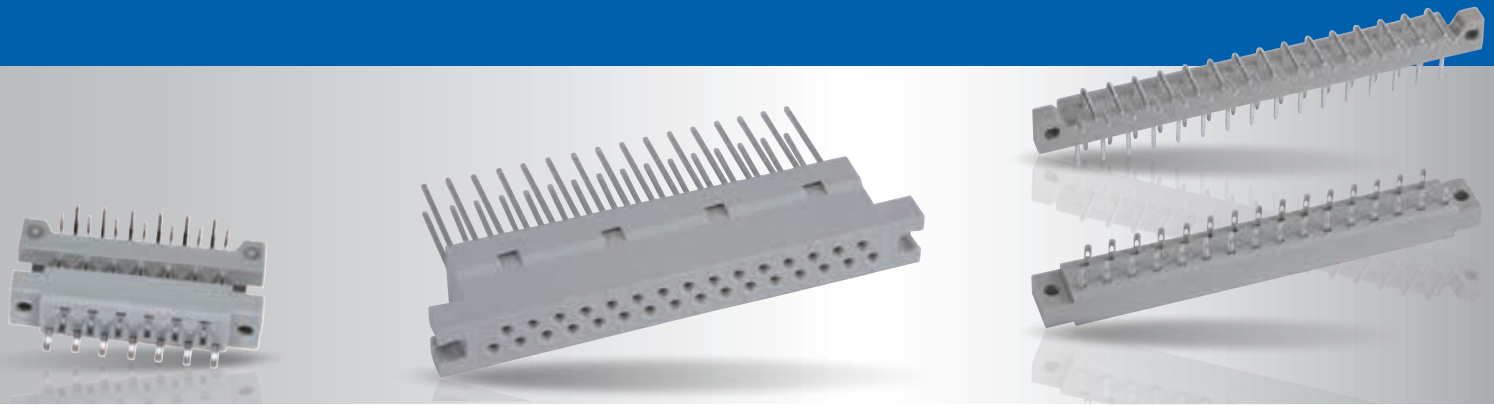
Applications

- Telecommunications
- Process control
- Test and measurement devices
- Electronic packaging



| Characteristics | Typ | | | | | | | | | | | Mixed pin connector | | | Type | | | | | | | | | | |
|---------------------|--|-----------|------------------|------------------|------------------|-----------|-----------------|-----------|-----------|-------|-------------|----------------------|--------|--|--|------|--|-------|--|------|--|-----|--|--------------------------|--|
| | B | B/2 | C | C/2 | R | R/2 | D | E | F | G | H | F H | | M | M/2 | | | | | | | | | | |
| Number of poles | 32, 64 | 16, 32 | 32, 64, 96 | 16, 32, 48 | 32, 64, 96 | 32, 48 | 16, 32 | 32, 48 | 32, 48 | 64 | up to 15 | 24 Signal 7 Power | | 78 Signal/ 2 Power/Koax 24 Signal/ 8 Power/Koax | 30 Signal/ 2 Power/Koax 12 Signal/ 4 Power/Koax | | | | | | | | | | |
| Insulator | PBT GF | | | | | | PC Polycarbonat | | | | | PBT GF | | | | | | | | | | | | | |
| Contacts | Copper alloy | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact plating | Gold over nickel | | | | | | | | | | Silver | Gold over nickel | Silver | Gold over nickel | | | | | | | | | | | |
| Working voltage | 250 V | | | | | 125 V | | | 500 V | 125 V | 500 V | 250 V | | | | | | | | | | | | | |
| | depending on the insulation coordination (refer to DIN VDE 0110/IEC 664-1) | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. current rating | 20°C | | 70°C | | 100°C | | 2 A | | | 1 A | | 0.5 A | | 5.5 A | | 15 A | | 5,5 A | | 15 A | | 2 A | | 40 A High power contacts | |

The table just shows a general overview. Some variants might not be available.



Benefits

- Robust connector system
- Converter connectors from DIN 41617 to DIN EN 60603 type D

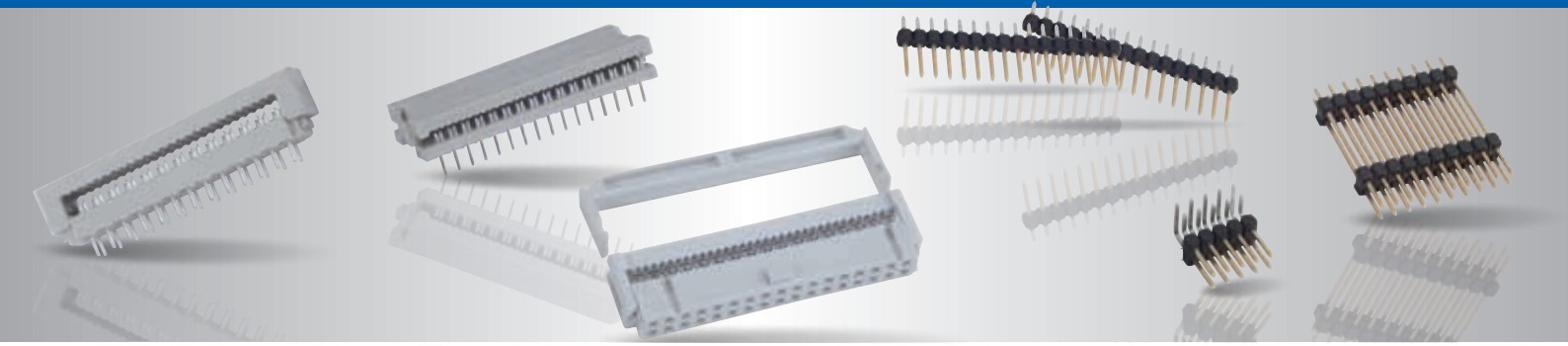
Applications

- Military
- Telecommunications
- Renewable energy



| Characteristics | DIN 41617 | DIN 41617 DIN EN 60603 |
|---------------------|--|---------------------------|
| Number of poles | 13, 21, 31 | 31, 32 |
| Insulator | PBT GF | |
| Contacts | Copper alloy | |
| Working voltage | 250 V | |
| Current rating | Quality class 1 up to 4 A Quality class 3 up to 2 A | 4 A |
| Solder pin straight | ✓ | |
| Solder pin angled | ✓ | |
| Solder cup | ✓ | ✓ |
| Wire wrap | | ✓ |

The table just shows a general overview. Some variants might not be available.

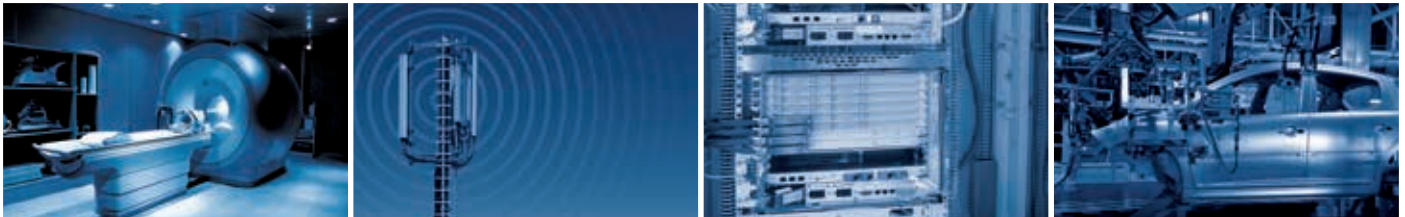


Benefits

- Flexible cable to circuit board connection
- With optional strain relief
- Compatible plug system
- Lever latching and ejection

Applications

- Process control
- Medical
- Telecommunications
- Machine manufacturing
- Electronic industry



| Characteristics | DIN 41651 | DIP + PCB | DIN 41612-IDC | CBL | CSU |
|-----------------------|------------------|--------------------------------|------------------|--------------------------------|-------|
| Number of poles | 6-64 | 4-64 | 64 | 5-40 | 5-100 |
| Pitch of the contacts | 0.100" | | | | |
| Insulator | PBT GF | | | PA | |
| Contacts | Copper alloy | | | | |
| Contact plating | Gold over nickel | Gold over nickel or tin plated | Gold over nickel | Gold over nickel or tin plated | |
| Working voltage | 250 V | | | | 250 V |
| Max. current rating | 1 A | | | 5 A | 5 A |
| Solder pin straight | ✓ | Solder pin to IDC | | ✓ | ✓ |
| Solder pin angled | ✓ | | | ✓ | ✓ |
| IDC | ✓ | | ✓ | | |

The table just shows a general overview. Some variants might not be available.

CONEC®

Despite a comprehensive product portfolio of industrial connectors, customer requirements cannot always be satisfied from standard products. In such cases, it is essential to develop custom specific solutions for mechanical and plant engineering as quickly as possible.



Are you looking for application-specific solutions?

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CONEC

Elektronische Bauelemente GmbH
Ostenfeldmark 16
59557 Lippstadt
Deutschland

Tel. +49 2941 765-0
Fax +49 2941 76565
E-Mail info@conec.de
www.conec.de



CONEC Corporation
125 Sun Pac Blvd.
Brampton Ontario
Canada L6S 5Z6
Tel. +1 905 790 2200
Fax +1 905 790 2201
E-Mail info@conec.com



CONEC
343 Technology Drive
Garner, NC, USA 27529
Tel. +1 919 460 8800
Fax +1 919 460 0141
E-Mail info@conec.com



CONEC Polska Sp. zo.o
ul.Szmaragdowa 10
52-215 Wrocław
Tel. +48 71 374 40 45
Fax +48 71 374 40 49
E-Mail info@conec.pl



CONEC s.r.o.
Loucka137
76325 Ujezd
Czech Republic
Tel. +420 577 350 132
Fax +420 577 350 134
E-Mail info@conec.cz



CONEC France SARL
202 Rue des Chevreuils
30320 Poulx
Tel. +33 9 75267217
Fax +33 4 66570916
E-Mail info@conec.fr



CONEC (Shanghai)
Int. Trading Co., Ltd.
Rm. 718 Yongding Bldg.
No. 3388 Gong He Xin Rd.
200436 Shanghai
Tel. +86 21 66300930
Fax +86 21 66300911
E-Mail info@conec.cn