INTE-AUTO

SHENZHEN INTE-AUTO TECHNOLOGY CO., LTD
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INTE-AUTO

UNIPOLE&MULTIPOLE CONNECTORS

SHENZHEN INTE-AUTO TECHNOLOGY CO., LTD

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About INTE-AUTO

HIGH-QUALITY
LOW-COST
RELIABLE&PERFECT
SUPERIOR CUSTOMER SERVICE
HOW DO WE DO IT?

INTE-AUTO, registered in 2013, is a company based in Shenzhen China engaged in the design, research, and manufacture of precision connectors and custom cable assemblies. Our mission goes beyond supplying connectors. The ultimate goal is to consistently provide top-notch, secure, cost-effective, and durable products for our esteemed clients worldwide.

Our high-quality connectors feature the reliable push pull self-latching connection system and are designed to endure the most extreme environments. These connector are widely used in a large variety of applications such as for medical, testing, measurement, military, sensor, NDT, and other machines and equipment.

INTE-AUTO has over 10,000 products, all of which are manufactured under the strictest quality standards. Our connectors are fully compatible and at par with the push pull connectors of other top brands—a testimony to the commitment we have to our quality management system.

Our facilities span over 5000 square meters, containing 23 production lines with 35 CNC working machines. Our mechanized work system improves efficiency, guarantees high quality, and controls production costs to comply with military and medical standards.

INTE-AUTO is RoHS, CE, ISO9001, and TUV certified. We are actively shaping the future of our company with creativity, imagination, and innovation to continually exceed the expectations of all our valued customers around the world.

Connector System and Application

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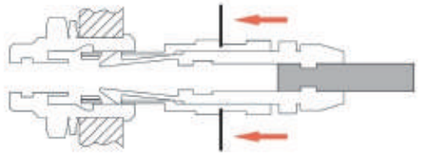
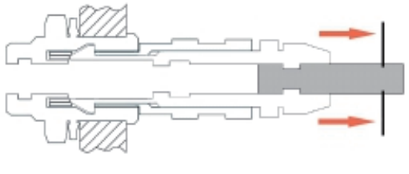
Drawing	Specification



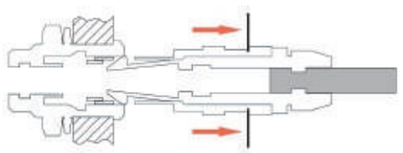
Engaging

The self–latching system allows the connector to be mated by simply pushing the plug into the receptacle.



Latched

Once firmly latched, connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.



Disengaging

When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengage the latches and then withdraws the plug from the socket.

Typical Applications

Automotive

Military

Test & Measurement

Research

Medical

Robot

Communication

Infomation System

INT13 B Series Connector

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Series B Metal Connector with the Following Main Features:

- 1. Secure push-pull self-latching system design
- 2. Multiple key options for aligned and blind mating
- 3. Keying system available (alpha=0/30/45/60/80/145/155)
- 4. 360° screening for full EMC shielding
- 5. Multipole types 2 to 48 contacts
- 6. Supply size 00B, 0B, 1B, 2B, 3B, 4B, 5B series
- 7. Solder contact, PCB contacts (straight or elbow)
- 8. Crimp contact can be customized
- 9. High-density configurations for blind mating even in tight spaces
- 10. Available customized cable assembly solution

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity : ⩽95% at 60℃ /140℉
- 3. Working Temperature: -40 ℃ ~ 150 ℃
- 4. Resistance to Vibration: 15 g [10 HZ-2000HZ]
- 5. Shock Resistance: 100 g, 6 MS
- 6. Salt Spray Corrosion Test: > 96 H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP50

Series B Metal Connector with Multiple Pins for Your Selection:

00B Series: 2, 3, 4, 5 Pins

0B Series: 2, 3, 4, 5, 6, 7, 9 Pins

1B Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 Pins

2B Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26, 32 Pins

3B Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

4B Series: 4, 6, 7, 10, 12, 16, 20, 24, 30, 40, 48 Pins

5B Series: 2, 4, 10, 14, 16, 20, 30, 40, 48 Pins

INT13 S and E Series Connector

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Series S and E Metal Connector with the Following Main Features:

- 1. Push-pull self-latching connection system
- 2. Multiple solder contact options: 2 to 18 pins
- 3. Polarization by stepped insert (half-moon) configuration for alignment
- 4. 360° screening for full EMC shielding
- 5. High-density installation for space-saving design

Note: Half-moon insert configuration with both male and female solder contacts

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: S Series: IP50, E Series: IP68

Series S and E Series Metal Connector with Multiple Pins for Your Selection:

0S / 0E Series: 2, 3, 4 Pins

1S / 1E Series: 2, 3, 4, 5, 6 Pins

2S / 2E Series: 2, 3, 4, 5, 6, 7, 8, 10 Pins

3S / 3E Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 14, 16, 18 Pins

INT13 2C Series Push Pull Connectors

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2C Series Connectors with the Following Main Features:

- 1. Secure push-pull self-latching system
- 2. Multiple solder contact options: 2 - 14 pins
- 3. Ultra-miniature series, with a length of less than 30mm
- 4. Polarization by stepped insert (half-moon) configuration for alignment
- 5. 360° shielding for full EMC protection
- 6. High-density installation for space-saving design

Note: Half-moon insert configuration with both male and female solder contacts

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP50

Series 2C Metal Connector with Multiple Pins for Your Selection:

2C Series: 2, 3, 4, 6, 8, 10, 12, 14 Pins

INT13 Coaxial & Triaxial Connectors

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Coaxial & Triaxial Connectors with the Following Main Features:

- 1. Secure push-pull self-latching system
- 2. Male and Female solder contacts
- 3. High packing density for space-saving installation
- 4. Impedance options: 50Ω or 75Ω
- 5. 360° shielding for full EMC protection
- 6. IP50 or IP68

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: S Series: IP50, E-F Series: IP68

Single-core Coaxial and Triaxial contacts for S and E Series:

Coaxial:

00 Series: 250（50Ω）

0S / 0E / 0C Series: 250（50Ω）

1S / 1E /1F Series: 250（50Ω）, 275（75Ω）

2S / 2E Series: 250（50Ω）, 275（75Ω）

3S / 3E Series: 250（50Ω）, 275（75Ω）

4S / 4E Series: 250（50Ω）, 275（75Ω）

Triaxial：

1S / 1E Series: 650（50Ω）

2S Series: 675（75Ω）

INT13 H Series Connector

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The HR10 series connectors are push–pull coupling type micro–connectors. They have been developed in response to customers' needs for miniaturization, high density, and easy handling. The HR10 series connectors offer light weight and assure high reliability and durability as well as easy "push–pull" operation. They are most suitable for portable electronic equipment, such as computers and peripherals,medical equipment, audio / video equipment, portable radio (wireless) apparatus, measuring equipment, etc.

Series H Metal Connector with the Following Main Features:

- 1. Easy "PUSH–PULL" Operation

  One touch "push–pull" coupling mechanism assures easy and quick connecting and disconnecting.

  You can couple it accurately just by pushing any part of the connector housing.
- 2. Polarization

  Five–key system permits only one way of coupling so that you can find right position to connect even when blind mating.
- 3. Protection of connection pin

  A connector pin is located to avoid any damage which may be caused when blind mating.
- 4. High density

  The space–saving "push–pull" mechanism facilitates multi–installation of connectors.
- 5. Easy wiring and mounting

  No use of screws makes wireing and mounting easier.
- 6. Simple and refined appearance

  Simple and well–designed connectors with matte finish enhance the appearance of the equipment.

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 1000 times
- 2. Working Temperature: -40 ° C ~ 125 ° C
- 3. Salt Spray Corrosion Test: > 48h
- 4. HR10 Series: 4, 5, 6, 10, 12 Pins
- 5. HR25 Series: 4, 6, 8, 12, 16, 20 Pins

INT13 K Series Connector

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Series K Metal Connector with the Following Main Features:

- 1. Security of the push-pull latching system
- 2. Watertight connection (IP 66～IP 68)
- 3. Multipole types 2 to 48 contacts
- 4. Solder, crimp or print (straight or elbow) contacts
- 5. Keying system («G» key standard) for connector alignment
- 6. Multiple key options to avoid cross mating of similar connectors
- 7. 360° screening for full EMC shielding
- 8. High packing density for space savings
- 9. Rugged housing for extreme working conditions
- 10. Available customized cable assembly solution

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP68

Series K Metal Connector with Multiple Pins for Your Selection:

0K Series: 2, 3, 4, 5, 6, 7, 9 Pins

1K Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 Pins

2K Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26, 32 Pins

3K Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

4K Series: 4, 6, 7, 10, 12, 16, 20, 24, 30, 40, 48 Pins

5K Series: 2, 4, 10, 14, 16, 20, 30, 40, 48 Pins

INT13 C Series Push Pull Connectors

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C Series Connectors with the Following Main Features:

- 1. Secure push-pull self-latching system
- 2. Multiple contact options: 2 to 48 pins
- 3. Solder contact, PCB contacts (straight or elbow)
- 4. Vacuum-tight insert structure, suitable for equipment requiring high sealing performance
- 5. 360° shielding for full EMC protection against electromagnetic interference
- 6. Multiple key options for aligned and blind mating
- 7. High-density installation saves space

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP68

Series C Metal Connector with Multiple Pins for Your Selection:

0C Series: 2, 3, 4, 5, 6, 7, 9 Pins

1C Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 Pins

2C Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26, 32 Pins

3C Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

INT13 T Series Push Pull Connectors

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T Series Connectors with the Following Main Features:

- 1. Secure push-pull self-latching system design
- 2. Multiple types 2 to 32 contacts
- 3. Solder contact, PCB contacts (straight or elbow)
- 4. High-density installation saves space
- 5. Multiple key options for aligned and blind mating
- 6. Keying system available (G, A, B, C, D, E, F, J, K, L……)
- 7. 360° screening for full EMC shielding (anti-electromagnetic interference)
- 8. Compatible with existing B sockets

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP68

Series T Metal Connector with Multiple Pins for Your Selection:

0T Series: 2, 3, 4, 5, 6, 7, 9 Pins

1T Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 Pins

2T Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26, 32 Pins

3T Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

INT13 W Series Connector

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Series W High Pressure Connectors with the Following Main Features:

- 1. Provide protection under high pressure liquid conditions
- 2. Rugged housing for extreme working conditions
- 3. Multipole types available from 2 to 32 solder contacts
- 4. Design a screw coupling system for watertightness
- 5. Keying system for connector alignment
- 6. Multiple key options available to prevent cross-mating of similar connectors
- 7. 360° screening for full EMC shielding
- 8. Suitable for various applications such as nuclear physics and the petroleum industry

Technical Characteristics: Mechanical and Climatical

- 1. Endurance: 5000 mating cycles
- 2. Temperature range: -40℃ ~ +125° C
- 3. Salt spray corrosion resistance: >96 h
- 4. Shielding effectiveness: 75 dB at 10 MHz and 40 dB at 1 GHz
- 5. Vibration resistance: 15 g [10 Hz - 2,000 Hz]

Series W High Pressure Connectors with Multiple Pins for Your Selection:

0W Series: 2, 3, 4, 5, 6, 7, 9 Pins
1W Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 Pins
2W Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26,
3W Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

INT13 WF Series Fast Locking Connector INTE-AUTO

Introduction:

INT13-WF series aviation connectors has the characteristics of high temperature resistance, water resistance, dust resistance, etc. They can work stably in harsh environments. With multi-size and multi-core options, it can be directly installed on the panel, compact and beautiful, and the connection form is push-in steel ball lock, quick and easy to insert and removal.

Application

This connector is mainly used in avionics equipment, such as airplanes, helicopters, aircraft and so on. They can be used to connect various electronic devices such as radars, communications equipment, navigators, flight controllers, etc.

Material and Specification:

- Connector Type: Push Pull Fast Locking
- Outer Shell Material: Brass Plated Chrome
- Insulator: Thermoplastic PPS, high Temp. resistance 260℃
- Configuration: Brass (gold plated)
- Contact Type: Solder
- Cable Diameter: INT13-WF6: 2 - 3mm, II 3 - 4mm (nonstandard)
- INT13-WF10: 3 - 4mm, II 4 - 6.5mm (nonstandard)
- INT13-WF12: 4 - 6.5mm (nonstandard), II 5 - 8mm
- IP Rating: IP67
- Endurance: 500 times
- Temperature Range: -40℃~+85℃
- Insulation Resistance: 2000MΩ

Series WF Metal Connectors with Multiple Pins for Your Selection:

INT13-WF6 Series: 2, 3, 4, 5 Pins

INT13-WF10 Series: 2, 3, 4, 5 Pins

INT13-WF12 Series: 2, 3, 4, 5, 6, 7, 9 Pins

INT13 WP Series Threaded Connectors INTE-AUTO

The INT13-WP13, INT13-WP17 and INT13-WP21 connectors are all IP68 connector, threaded coupling. These connectors can be used for both cable to cable (in-line) and cable to panel-mount connections. Each side can be male or female contact (plug or socket versions). The IP 68 sealing caps are available on both cable connector and panel connector.

Material and Specification:

- Coupling Type: Threaded Coupling
- IP Rating: IP68
- Material: Plastic
- Outshell Material: PA66 Nylon, fire resistance: V–0
- Insert Material: PPS,Max temperature 260℃,fire resistance:V–0
- Contact Material: Brass with gold plating
- Termination: Solder
- Mating Cycle: 500 times;
- Temperature Range: – 25℃~+85℃
- Insulation Resistance MΩ:2000

INT13-WP13 is the smallest plastic shell IP68 waterproof connector, this miniature connector is one of our most popular outdoor watertight connector.

1. Shell diameter(the panel hole cutout diameter): 13mm
2. Number of contacts: 2–9 gold plated contacts
3. Rated current and V: 13A–3A 250V–125V
4. Cable outer diameter acceptance:
   type Ⅰ : 4 – 6.5mm, type Ⅱ : 5 – 8mm

Compare to INT13-WP13, INT13-WP17 and INT13-WP21 has a larger shell and higher current range. It is a strong and tough connector designed for indoor/outdoor and underwater IP68 environments.

1. Shell diameter(the panel hole cutout diameter): 21mm
2. Number of contacts: 2–12 gold plated contacts
3. Rated current and V: 30A–5A 500V–400V
4. Cable outer diameter acceptance:
   type Ⅰ : 4.5 – 7mm, type Ⅱ : 7 – 12mm

Application for INT13-WP13, INT13-WP17 and INT13-WP21 (Threaded)

This miniature IP68 waterproof connector is ideal for indoor/outdoor and under water hush conditions, such as outdoor led lighting, LED panel screens, outdoor security cameras, solar energy inverter, medical device, communications, marine Equipment ,control systems, measuring equipment and testing equipment, for data and power.

Series INT13-WP Plastic Connectors with Multiple Pins for Your Selection:

INT13-WP13 Series: 2, 3, 4, 5, 7, 9 Pins

INT13-WP17 Series: 2, 3, 4, 5, 7, 9 Pins

INT13-WP21 Series: 2, 3, 4, 5, 7, 9, 12 Pins

INT13 M Series Circular Connector

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INTE-AUTO M series industrial connectors are a family of circular connectors designed for a variety of applications. They come in different sizes, such as M5, M8, M12, M16, and M23, each with their own unique features and applications.

M5	M8	M12	M16	M23
Apply to Sensor	Apply to Agriculture UAV	Apply to Rail Traffic, Medical and Industrial Camera	Apply to Commercial Transportation Automation Devices	Apply to Electric Power Industrial and Signal Transmission

Product parameters:

- 1. Endurance: 500 cycles
- 2. Temperature Range: -20° C ~ +80° C
- 3. Contact Impedance: ⩽5mΩ
- 4. Insulation Impedance: ⩾100mΩ

Product parameters:

M5 Series: 3, 4 Pins

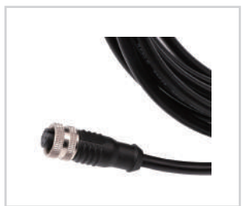
M8 Series: 3, 4, 5, 6, 8 Pins

M12 Series: 2, 3, 4, 5, 6, 8, 12, 17 Pins

M16 Series: 2, 3, 4, 5, 6, 8, 12, 14, 16, 19, 24 Pins

M23 Series: Signal – 6, 7, 9, 12, 17, 19 Pins

M23 Series: Power – 6, 8 Pins



INT13 P Series Connector

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Series P Plastic Connector with the Following Main Features:

- 1. The security rapid push–pull self–locking system
- 2. Soldering and PCB contacts (Straight or Elbow)
- 3. Keying system, (G key standard) for connector alignment
- 4. Multiple key option to avoid cross mating of similar connectors
- 5. High–temperature endurable plastic outshell（–25℃ ~ 125℃), suited for many environments
- 6. Series of multi–core, high–density installation for space–saving
- 7. Wide colorful choice for easy identification (blue, yellow, red, gray, green, black)

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 1000 times
- 2. Working Temperature: -25 ℃ ~ 125 ℃
- 3. IP Rating: IP 50

Alignment Key and Polarized Keying System

Keying(Plug front view)	0°	40°	60°	80°	170°	155°
Contact Type for plug	Male	Male	Male	Male	Female	Female
Contact Type for Receptacle	Female	Female	Female	Female	Male	Male
Key Code	G	A	B	C	H	J

Series P Plastic Connector with Multiple Pins for Your Selection:

0P Series: 2, 3, 4, 5, 6, 7, 9 Pins

1P Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14 Pins

2P Series: 2, 3, 4, 5, 6, 7, 8, 10, 12, 16, 18, 19, 26, 32 Pins

3P Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32 Pins

INT13 Hybrid Fluidic Connector

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Hybrid Connectors with Low Voltage Contacts and Fluidic Contacts Main Features

- 1. Secure original push-pull self-latching system
- 2. Multiple key options for aligned and blind mating
- 3. P1 fluidic contact can be combined with low voltage contacts for hybrid configurations in B, K Series and P series
- 4. The possible outer cable diameters range from 4.0mm to 16.0mm

The P1 fluidic contact is designed for use in B, K and P Series connectors. This hybrid fluidic connector is mainly used in medical and dental equipment, and is primarily intended for air or inert gas transmission.

B and K Series Connectors with Multiple Pins for Your Selection:

1B / 1K Series: 4LV + 1 Fluidic

2B / 2K Series: 4LV + 1 Fluidic, 6LV + 1 Fluidic, 10LV + 1 Fluidic

3B / 3K Series: 8LV + 1 Fluidic, 11LV + 1 Fluidic, 12LV + 1 Fluidic, 13LV + 1 Fluidic, 6LV + 2 Fluidic

4B / 4K Series: 9LV + 4 Fluidic, 12LV + 3 Fluidic

P Series Connectors with Multiple Pins for Your Selection:

2P Series: 4LV + 1 Fluidic, 6LV + 1 Fluidic, 10LV + 1 Fluidic

3P Series: 8LV + 1 Fluidic, 13LV + 1 Fluidic, 14LV + 1 Fluidic, 16LV + 1 Fluidic, 6LV + 2 Fluidic

INT13 Hybrid Coaxial Connector

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Hybrid Connectors with Low Voltage Contacts and Coaxial Contacts Main Features

- 1. Fast push-pull self-locking connection system
- 2. Multiple key options for aligned and blind mating
- 3. Combined transmission of multiple media in one interface, including signals, power, and data
- 4. The possible outer cable diameters range from 4.0mm to 16.0mm

Hybrid coaxial connectors combine low voltage contacts with coaxial contacts and are designed for B, K and P Series connectors. These compact, lightweight, and high-performance hybrid connectors are suitable for industrial equipment, medical technology, test and measurement applications, and other demanding connection interfaces. They are designed for harsh operating environments while ensuring reliable performance over a high number of mating cycles.

B and K Series Hybrid Coaxial Configurations for Your Selection:

2B / 2K Series: 6LV + 1 Coaxial, 10LV + 1 Coaxial

3B / 3K Series: 8LV + 1 Coaxial, 13LV + 1 Coaxial, 6LV + 2 Coaxial

P Series Hybrid Coaxial Configurations for Your Selection:

2P Series: 4LV + 1 Coaxial, 6LV + 1 Coaxial, 10LV + 1 Coaxial

3P Series: 8LV + 1 Coaxial, 13LV + 1 Coaxial, 6LV + 2 Coaxial

INT13 Fluidic & NIBP Connectors

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Main Features

With excellent sealing performance and a quick push-pull locking system, NIBP connectors are suitable for gas and water connections in medical devices and industrial applications. They are widely used in medical cables, patient monitors, blood oxygen probes and cables, oxygen meters, and related equipment.

Technical Characteristics Mechanical and Climatically

- 1. Material: Brass outshell for metal type, PC outshell for plastic type
- 2. Surface Treatment: Nickel plated brass outshell
- 3. Working Temperature: -30℃ ~ +60℃
- 4. Leakage Rate: No more than 3mmHg / 0.4kPa per minute when the pressure difference is 400mmHg
- 5. Pressure Resistance: 0.5MPa
- 6. Endurance: 1000 cycles
- 7. Applicable Tube: Silicone tube, PU tube, etc.

INT13 F Series Connector

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Series F Metal Connector with the Following Main Features:

- 1. Original push-pull self-locking system
- 2. Widely adopted by the industry
- 3. Unparalleled signal integrity
- 4. Fully secured against accidental disconnection
- 5. Designed for frequent connect disconnect operations
- 6. Ideal for compact product designs
- 7. Locking system integrated into the connector housing
- 8. Non-locking or emergency quick release solutions also available
- 9. Available over-molded injection and custom cable assembly

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ⩽95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP50 and IP68

Series F Metal Connector with Multiple Pins for Your Selection:

0F Series: 2, 3, 4, 5, 7, 9,10 Pins

1F Series: 2, 3, 4, 5, 6, 7, 8, 10, 12 Pins

1.5F Series: 10, 12, 19 Pins

2F Series: 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 16, 19, 27 Pins

3F Series: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 18, 19, 24, 27, 40 Pins

INT13 U Series Push Pull Connectors

INTE-AUTO

U Series Connectors with the Following Main Features:

- 1. Secure push-pull self-latching system
- 2. Multiple contact options: 2 to 16 pins
- 3. Solder and PCB contacts available, straight or elbow type
- 4. High-density installation for space-saving design
- 5. Available shell sizes: M7, M9, and M12
- 6. Design three keys and two half-shell pieces keying system for blind mating
- 7. 360° shielding for full EMC protection against electromagnetic interference
- 8. IP68 protection rating, with 5,000 - 10,000 mating cycles
- 9. Mainly used for low-frequency signal transmission in electronic equipment

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ≤95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP68

Series U Metal Connector with Multiple Pins for Your Selection:

00U Series: 2, 3, 4, 5, 6 Pins

0U Series: 2, 3, 4, 5, 7, 9, 10, 13 Pins

1U Series: 2, 3, 4, 5, 6, 7, 8, 10, 14, 16 Pins

INT13 Y Series Push Pull Connectors

INTE-AUTO

Y Series Connectors with the Following Main Features:

- 1. Available in push-pull self-latching and break-away locking versions
- 2. Compact and lightweight design for easy handling and operation
- 3. Mechanical keying and color coding for enhanced mismating prevention
- 4. Robust housing structure for harsh operating environments
- 5. Blind mating design available for convenient and accurate connection
- 6. Excellent shielding performance for stable signal and transmission

Technical Characteristics:

Mechanical and Climatically

- 1. Endurance: 5000 times
- 2. Humidity: ≤95% at 60℃ / 140℉
- 3. Working Temperature: -40℃ ~ 150℃
- 4. Resistance to Vibration: 15g [10 - 2000Hz]
- 5. Shock Resistance: 100g, 6 MS
- 6. Salt Spray Corrosion Test: >96H
- 7. Shielding Efficiency: 75dB at 10MHz, 40dB at 1GHz
- 8. IP Rating: IP68

Series Y Metal Connector with Multiple Pins for Your Selection:

0Y Series: 2, 3, 4, 5, 6, 7, 9, 10 Pins
1Y Series: 2, 3, 4 (High-speed), 5, 6, 7, 8, 10, 12, 14, 16, PD8 (High-speed) Pins
AY Series: 10, 19, PD8 (High-speed) Pins
2Y Series: 2, 3, 4 (High-speed), 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26, 32,
PD8 (High-speed), PD12 (High-speed), PD16 (High-speed) Pins

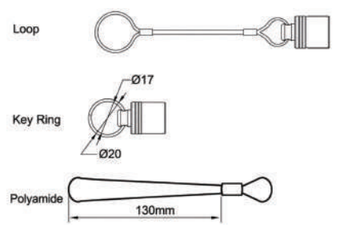
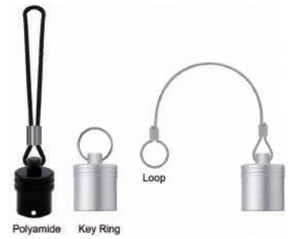
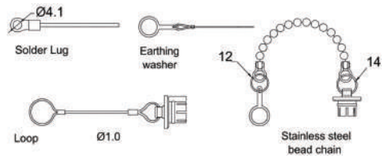
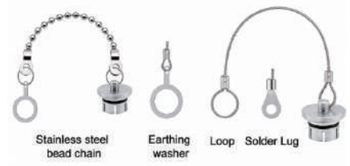
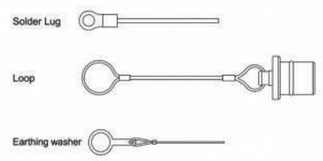
Note:

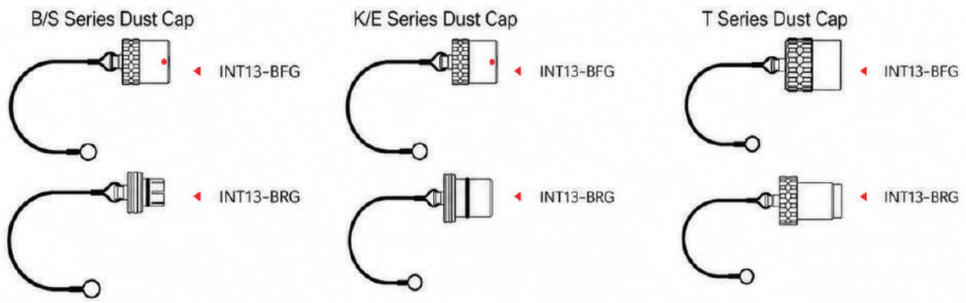
1Y Series:
4 (High-speed) - Ethernet Type CAT 5 up to 100 Mbit
PD8 (High-speed) - Ethernet Type CAT 5 up to 1 Gbit
AY Series:
PD8 (High-speed) - Ethernet Type CAT 5 up to 1 Gbit

2Y Series:
4 (High-speed) - Ethernet Type CAT 5 up to 100 Mbit
PD8 (High-speed) - Ethernet Class EA Channel up to 80 m, 10 Gbit
PDM (High-speed) - Ethernet Type CAT 5, 1 Gbit, USB 2.0
PD16 (High-speed) - HDMI

Dust Cap

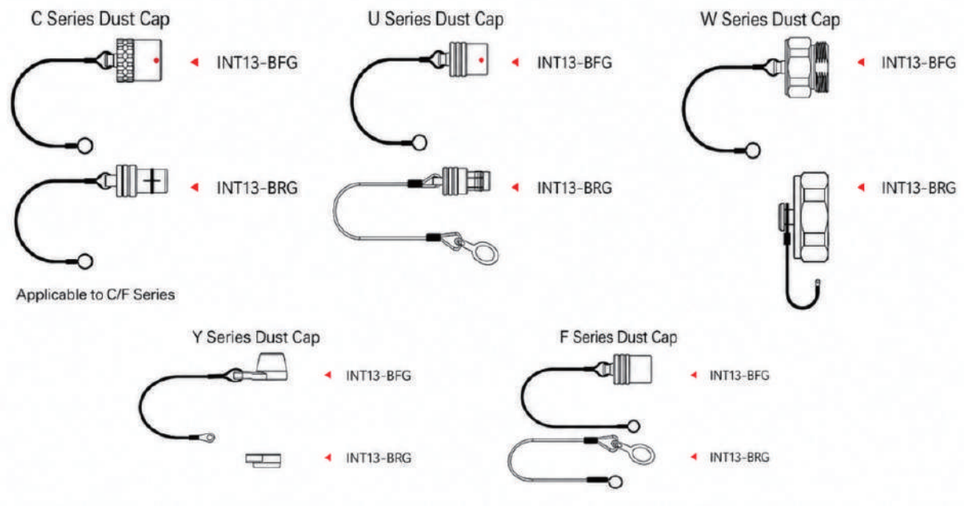
INTE-AUTO

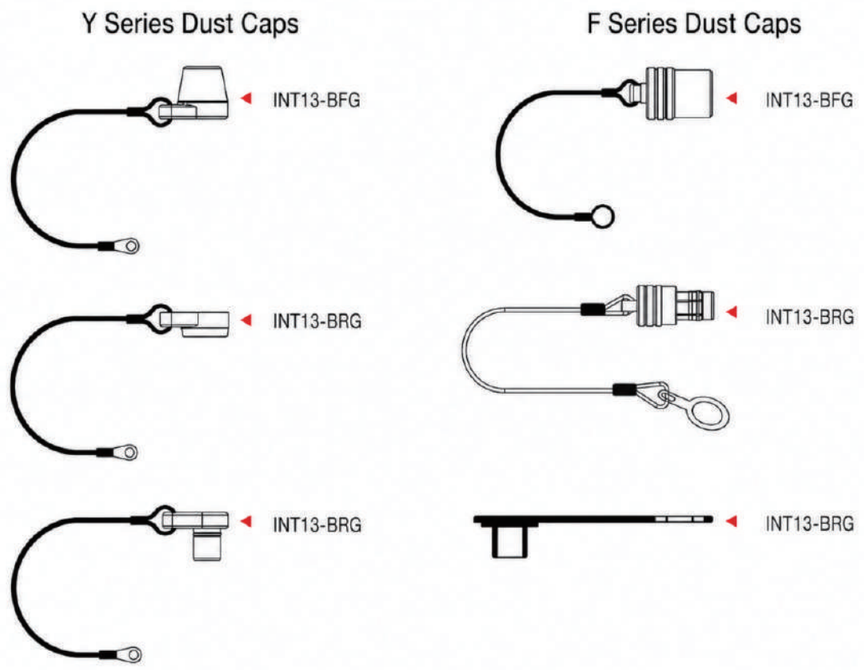
Caps Model	Product Drawing	Product Photo
Dust Caps for Plug with Keys		
Dust Caps for Receptacle		
Dust Caps for Receptacle		



Dust Cap

INTE-AUTO





Customized Cable Assembly