

STOCK CODE: 300351

CONNECTION TO FUTURE



YGC - AEROSPACE AND SPECIAL PURPOSE CONNECTOR HANDBOOK



Content



Circular Connector



Rectangular Connector



Explosion-Proof Connector



RF Coaxial Connector



Water-Tight Connector



Other Special Purpose Connector



Customized Service

Circular Connector

Circular Connector

Y50 Series



Product series: Inch Y50EX series, Metric Y50X series, Power Y50DX series

Compliant: MIL-C-26482, Metric compliant with Chinese domestic standard

Applicable environment: Suitable for ground, airborne, Shipborne electrical signal connection

Circular Connector

JY Series



Product series: JY31 and JY41 Series

Compliant: MIL-C-26482

Applicable environment: Suitable for harsh environments, the product has the performance of moisture, salt spray, mold, rain and dust.

Circular Connector

XC Series



Product series: XC series, XCD series, XCE series, XC158, XC filter series (π type or C type)

Compliant: Chinese Domestic Standard

Applicable environment:

1. suitable for the transmission of electrical signals or power in the airborne and shipborne fields.
2. Strong anti-RF interference (XC filter series)

Circular Connector

J599 Series



Product series: I, II, III, IV standard series, Hermetic Series filter series, Mixed series

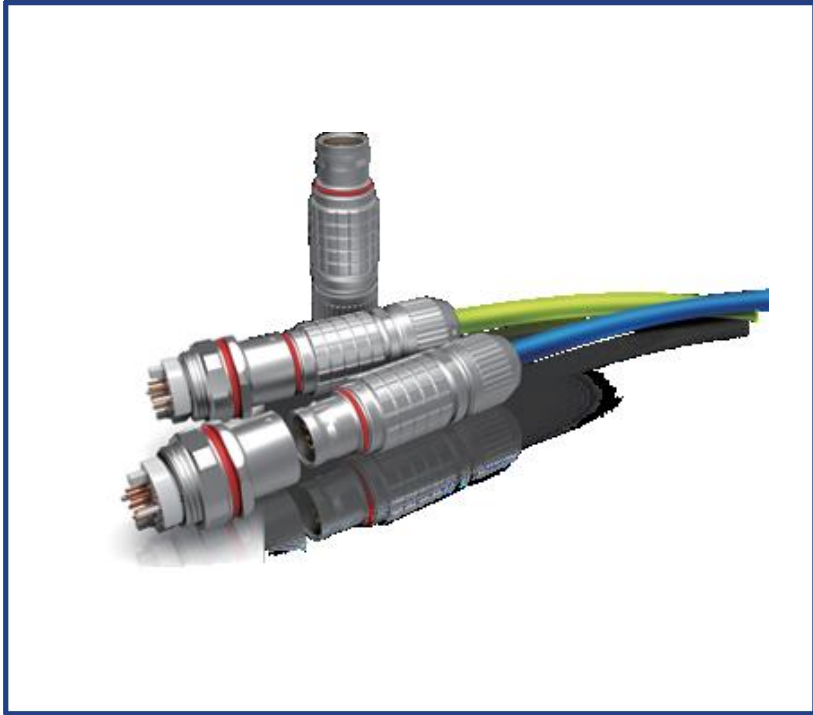
Compliant: MIL-C-38999

Applicable environment:

1. Aerospace, Harsh environments, Precision electronic equipment,
2. Strong anti-RF interference (filter series)
3. the integration of microwave signal, high-speed data, optical fiber and power

Circular Connector

Small Circular Push-Pull Series



Product series: B series, K series, S series, ferrule with coaxial, optical fiber and power signal integration

Compliant: Chinese Domestic Standard

Applicable environment: widely used in medical instruments, ground, airborne, broadcast communications, measurement and testing equipment and other professional occasions

Circular Connector

JY83723 III. Series



Product series: 9 shell sizes, 2-61 cores, a total of 31 contact layouts

Compliant: MIL-DTL-83723

Applicable environment: The product is threaded and has the function of thread stop locking, which is suitable for high temperature and high vibration environments such as aero engines, with a working temperature of $-65-260^{\circ}\text{C}$.

Circular Connector

JY32689 Series High Density, Light Weight, Micro Circular Connector



Product series: 801、802、803、804、805

Compliant: MIL-DTL-32689

Applicable environment: Compared with GJB599III series, the weight is reduced by about 30% and the volume is reduced by about 50%, while meeting the Marine environment, rain and solar radiation resistance

Mainly used in the aerospace and special industrial markets; Mixed with microwave signal, high-speed data, optical fiber and power signal integration

Circular Connector

Micro Circular Series



Product series: Micro Circular

Compliant: Chinese Domestic Standard

Circuits Number: 2/3/4/5/7/8/14/19

Applicable environment: 1. Twisted wire spring pins are adopted, and the product is light in weight and small in size
2. It is suitable for the electrical signal connection between equipment in airborne, shipborne, communication and other industries.

Circular Connector

High-speed Network Series



Product series: Built-in RJ45, HDMI, USB and 1394 standard interfaces.

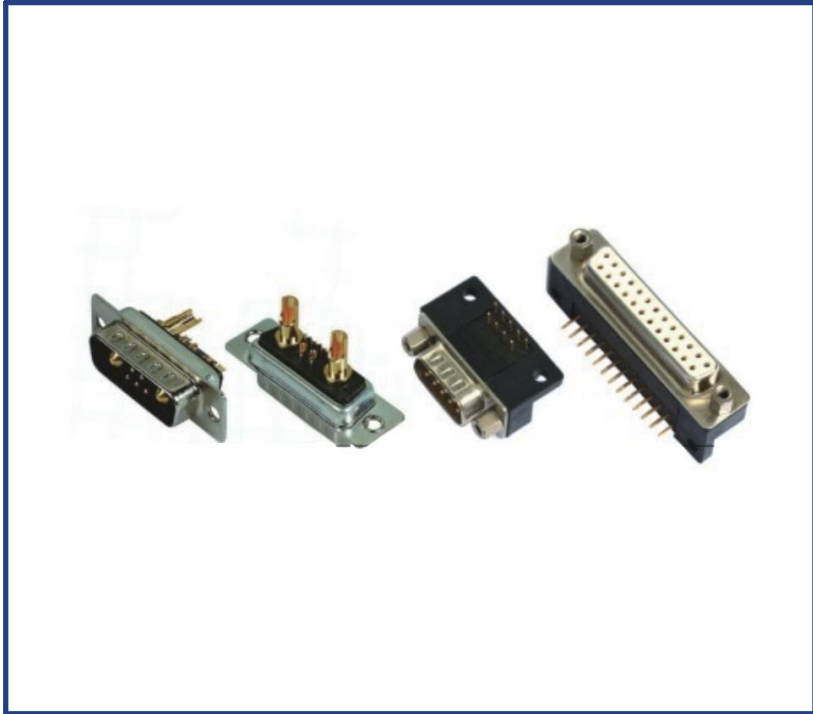
Compliant: MIL-DTL-26482, MIL-DTL-38999, TIA/EIA-568

Applicable environment: High Speed Signal Transmission with EMC

Rectangular Connector

Rectangular Connector

D-SUB Series



Product series: Standard Series, High-density Series
Mixed Series

Compliant: MIL-C-24308

Circuits Number: 9/15/25/37/50--Standard
15/26/44/62/78--High-density
2V2/3V3/2W2/3W3/5W5--Mixed

Applicable environment: Suitable for signal or power transmission in communications, electronics, electrical appliances, instruments and other equipment, international general electrical connectors.

Rectangular Connector

Micro Rectangular Series (Micro D) -- J29A Series



Product series: J29A Series

Compliant: MIL-DTL-83513

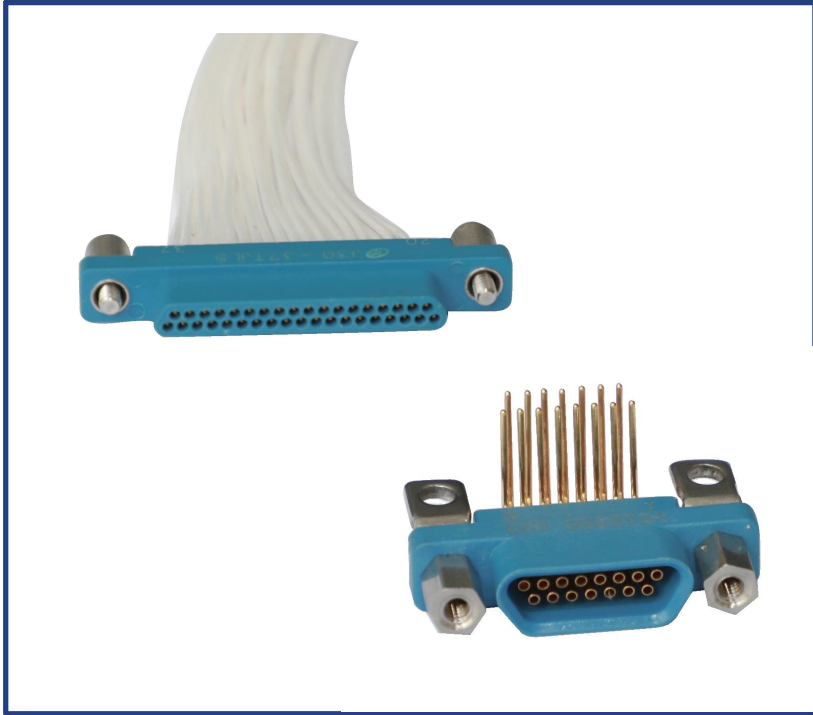
Circuits Number: 9/15/21/25/31/37/51/66

Pitch: Point Pitch 1.91mm, Row Pitch 1.65mm

Applicable environment: 1. Apply Twist Wire Spring Pin

Rectangular Connector

Micro Rectangular Series (Micro D) -- J30 Series



Product series: J30 Series

Compliant: MIL-DTL-83513

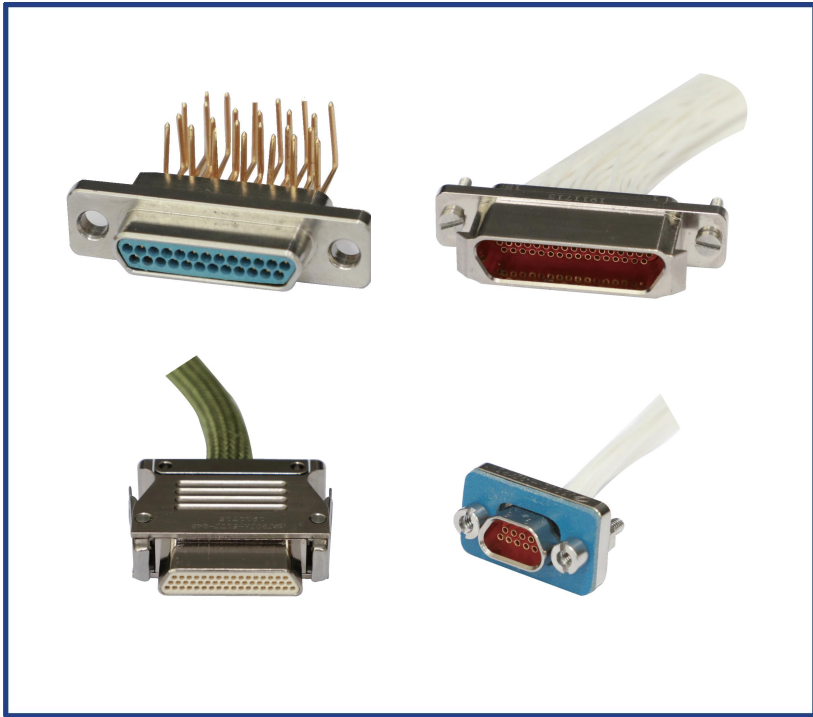
Circuits Number: 9/15/21/25/31/37/51

Pitch: Point Pitch 1.27mm, Row Pitch 1.91mm

Applicable environment: 1. Apply Twist Wire Spring Pin

Rectangular Connector

Micro Rectangular Series (Micro D) -- J30J Series



Product series: J30J, J30JA quick-lock, J30JZ series

Compliant: MIL-DTL-83513

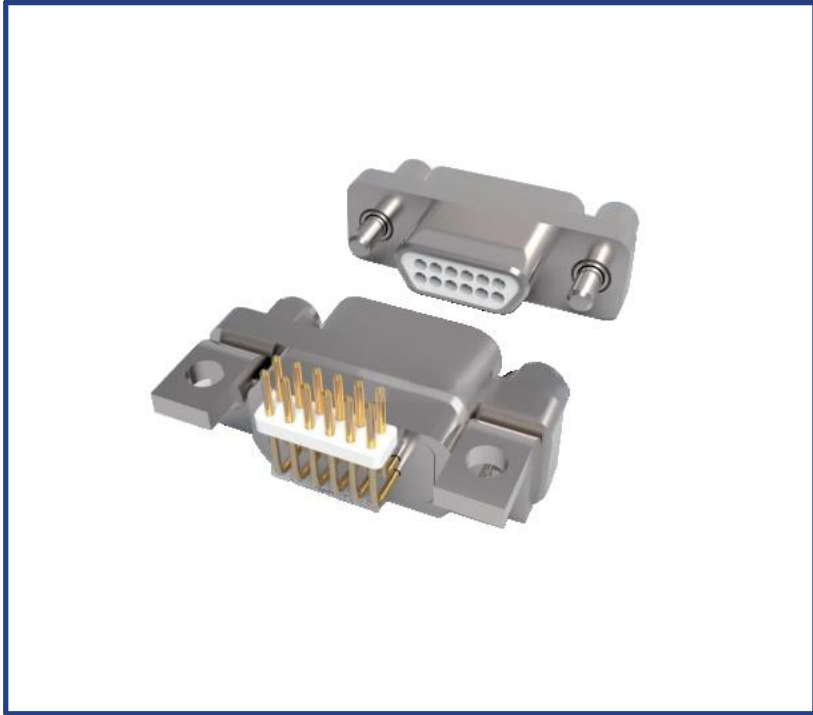
Circuits Number: 9/15/21/25/31/37/51/66/74/100/144

Pitch: Point Pitch 1.27mm, Row Pitch 1.1mm

Applicable environment: 1. Apply Twist Wire Spring Pin

Rectangular Connector

Micro Rectangular Series (Micro D) -- HJ30J Series



Product series: High Speed Series

Compliant: MIL-DTL-83513

Circuits Number: 12/18/24/30/36/55/100

Pitch: Point Pitch 1.27mm, Row Pitch 1.27mm

Applicable environment: 1. Apply Twist Wire Spring Pin
2. no less than 30dB within 100ps

Transmission characteristics: the transmission rate is 1.65Gbps

Rectangular Connector

Micro Rectangular Series (Micro D) -- Space class Series



Product series: 5 types of shell, 5 Standards Contact Layouts, 5 High Density Contact Layouts and 19 Mixed Layouts

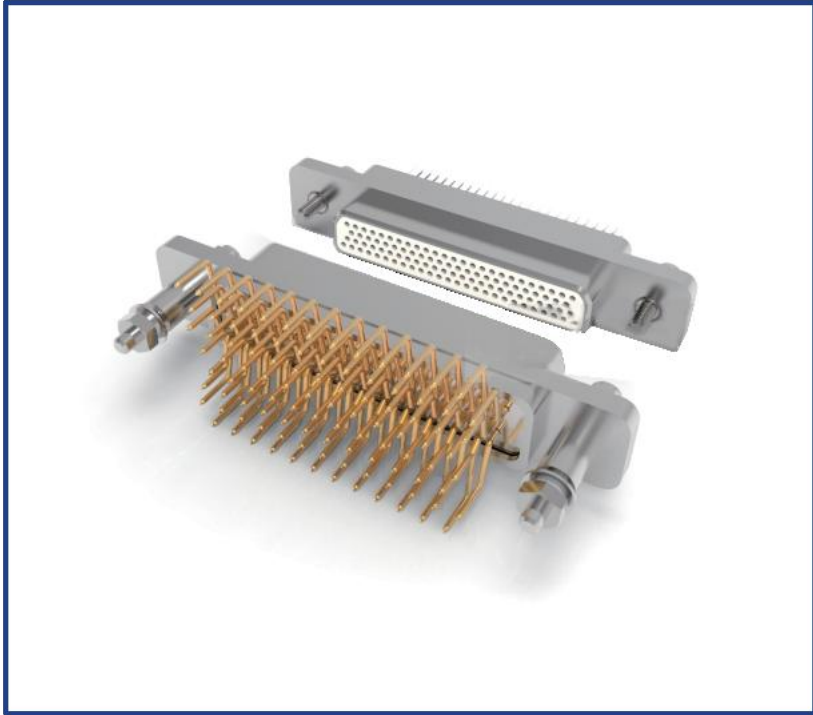
Compliant: MIL-DTL-24308

Applicable environment:

Applicable to space equipment, launchers, satellite wiring harnesses and effective payload, avionics fields, with radiation resistance in the space environment, resistant of heat vacuum gas release, remanent magnetic many special environmental requirements

Rectangular Connector

Micro Rectangular Series (Micro D) -- J30JL Series



Product series: Filter Series

Compliant: MIL-DTL-83513

Applicable environment: C-type low-pass filter with strong radio frequency interference resistance

Rectangular Connector

Micro Rectangular Series (Micro D) -- QuaDrax Series



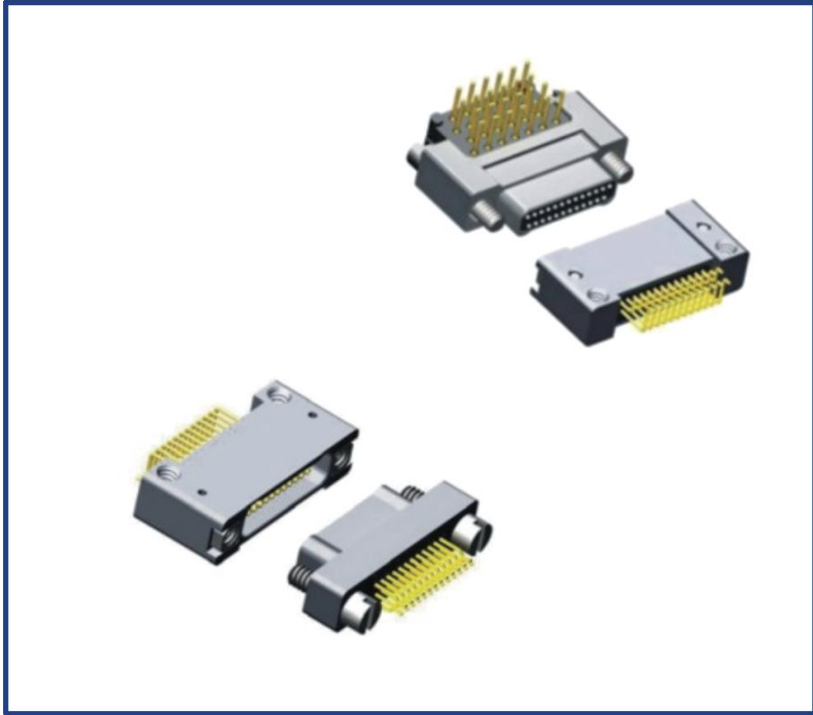
Product series: QuaDrax Series

Compliant: MIL-DTL-83513

Applicable environment:

Rectangular Connector

Micro Rectangular Series (Nano Micro D) -- J63A Series



Product series: J63A

Compliant: MIL-DTL-32139A

Circuits Number: 9/15/21/25/31/37/51/65/69

Pitch: Point Pitch 0.635mm, Row Pitch 1.27mm

Applicable environment: 1. Apply Twist Wire Spring Pin

Rectangular Connector

High-density Surface Mount High-speed Connector



Product series: J63A

Compliant: MIL-DTL-32139A

Circuits Number: 20/30/40/50/60/64/70/80/90/100/120

Pitch: 1mm × 1.5mm

Transmission Rate: 40Gpbs

Rectangular Connector

1900 Series Connector



Product series: 9 Contact Layouts

Compliant: EN3545

Circuits Number: 9 Contact Layouts

Characteristics:

Plastic housing, lightweight design, suitable for transmission of low frequency , power supply, radio frequency and optical fiber signals

Rectangular Connector

ARINC 600 Series



Product series: 3 Types of Shell, 40+ Contact Layouts

Compliant: ARINC600

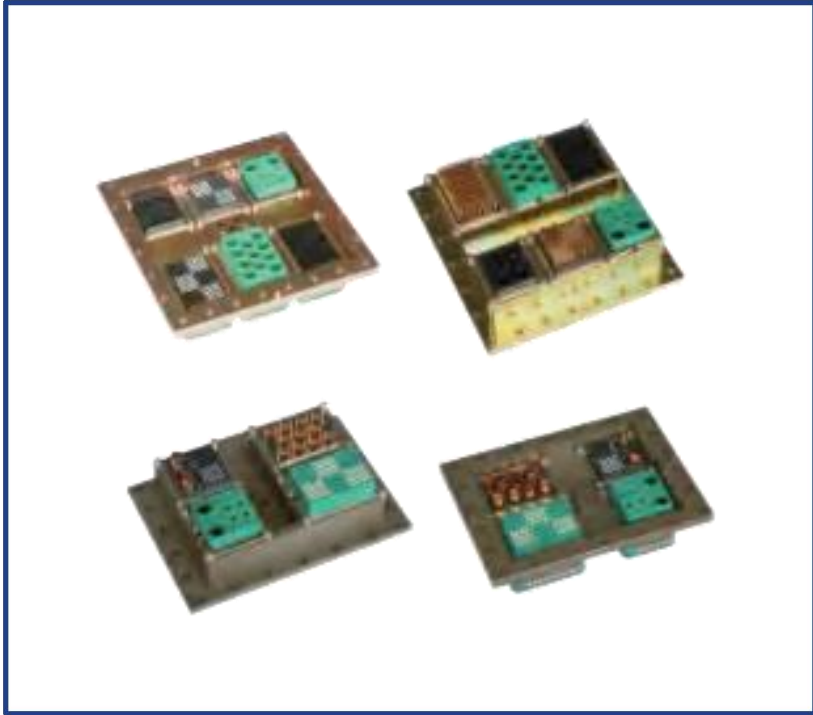
Feature: Mixed Modulization

Applicable environment:

Suitable for aviation products and equipment cabinet,
Good environmental resistance

Rectangular Connector

ARINC 700 Series



Product series: 4 Types of Shell, 40+ Contact Layouts

Compliant: MIL-DTL-83527

Feature: Mixed Modulization

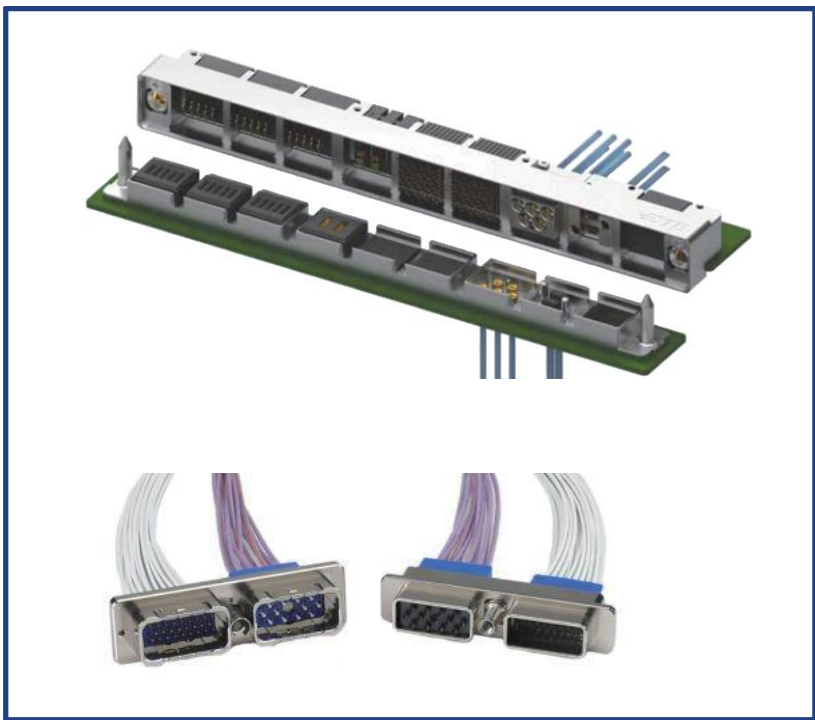
Applicable environment:

Used for low frequency, power supply, radio frequency, optical fiber signal integrated transmission

Widely used in chassis cabinets

Rectangular Connector

Modular Series



Product series: LRM series, EPX series

Compliant: LRM, ARINC600, MIL-STD-1389D/ARINC650 and ASAAC
EPX, ARINC810, EN4644

Feature: Modulization

Applicable environment:

Explosion-Proof Connector

Explosion-Proof Connector

Explosion Proof Signal Series



Compatible with ExdII.BT4Gb

Number of cores: 3/4/5/6/7/10/14/20/27

Voltage 60V, electricity 8~10A

Explosion-Proof Connector

Explosion Proof Power Supply Series



Compatible with ExdII.BT4Gb

EX1A, voltage 250V, current 16~63A, number of cores: 3/8/12

EX1B, voltage 400V, current 16~200A, number of cores: 5/20

EX1C, voltage 500V, current 16~200A, number of cores: 4

EX1D, voltage 1000V, current 800A, number of cores: 1

Explosion-Proof Connector

Increased Safety Signal Series



Exell.T4Gc is applicable

The number of cores is 5/6/7/8/9/10/12/14/20/27/37/60

Voltage 60V, electricity 6~16A

Explosion-Proof Connector

Increased Safety Power Supply Series



Exell.T4Gc is applicable

Voltage 250V, current 16~63A, number of cores: 3/8/12/20

Voltage 400V, current 16~200A, number of cores: 5

Voltage 500V, current 16~200A, number of cores: 4

Voltage 1000V, current 300~1000A, number of cores: 1

RF Connector

RF Connector

Radio Frequency Coaxial Series



series	impedance	frequency
PD4 type	50Ω	1GHz
DB4 type	50Ω	2GHz
C4 type	50Ω	2GHz
BNC type	50/75Ω	3GHz
Q9 type	50/75Ω	3GHz
SSMB type	50Ω	3GHz
MCX type	50Ω	6GHz
MMCX type	50Ω	6GHz
7/16 type	50Ω	7.5GHz
N type	50Ω	11GHz
TNC type	50Ω	11GHz
4.1/9.5 type	50Ω	12GHz
SMA type	50Ω	12.4GHz
BMA type	50Ω	18GHz
SBMA type	50Ω	28GHz
SSMA type	50Ω	30GHz
2.92 type	50Ω	40GHz
SMP type	50Ω	40GHz
SMB type	50Ω	3GHz
	75Ω	2GHz
CC4 type	50Ω	4.8GHz
	75Ω	1.65GHz
L9 type	75Ω	1GHz
SMZ type	75Ω	3GHz

Water-Tight Connector

Water-Tight Connector

Metal Case Series



Product series:

YM and SM series,
signal, power, fiber optic communication and network communication

Two categories:

universal sealing and glass sintering sealing

Application environment:

Suitable for 0-3000 meters
(Max) marine application environment.

Water-Tight Connector

Rubber and Plastic Product Series



Product series:

SH series, with integral vulcanization, for signal transmission

Application environment:

Suitable for 0-7000 meters (Max) marine application environment.

Other Special Purpose Connector

Other Special Purpose Connector

Port Shore Power Series



Type:
DC, AC

Electric current:
300A~800A

Other Special Purpose Connector

Nuclear Power Series



Suitable for environments such as nuclear power plants and facilities

Waterproof: 100 meters

Radiation resistance: 2.5×10^5 Gy

Customized Service

Customized Service

- **Customized connectors**



High voltage
electrical
connector



Nuclear power
connector



Deep sea
electrical
connector



Oil drilling
electrical
connector

- Fiber optic connectors
- Fluid connectors
- Gas electric hybrid connectors

Customized Service

- **Cable Assembly**



Differential signal
integrated wiring
harness



RF wiring harness



J63 wiring harness

Customized Service

- **Personalized customization**

Customize and develop personalized products according to customer requirements; Modify standard products based on customized solutions



YONGGUI