

Circular Connectors



Circular Connectors



Metal Connectors

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Small Multi-contact connectors	5,10	12,15,21,24,31	RM	17
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JIS C 5432 (Japanese industrial standard) Waterproof connectors	3,5,10,30	13,16,21,25	JR*W	18
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Metal Connectors

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Plastic Connectors

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RP17 type Push-pull lock connectors	5A(AWG#18 to 22),2A(AWG#24 to 30)	13	RP17	27
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RP type connectors	5A: 3,6 and 7 pos., 1A: 4 pos.	7,12	RP	28

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AC power supply Connectors

Type	Current rating	Shell Size (mm)	Series Name	Page
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RP34 type connectors for the AC power supply	3A	8	RP34	30

Small Multi-contact connectors

RM Series



Features

- Hirose's unique multi-pin circular connector to satisfy the high-performance and downsizing demands of all equipment.
- Excellent electrical and mechanical performance is ensured by diallyl phthalate resin applied for insulation.
- The lock mechanisms with thread coupling type, bayonet sleeve type (size 12 only), or quick detachable type (size 15) are available.
- Metal shell circular connectors, plugs, receptacles and jacks, available in different shell size, number of contacts, locking mechanism, etc.

Applications

Measurement equipment, FA and control equipment, Broadcast equipment, Mobile communications base stations, Radio communications equipment

Specifications

Item	Requirements
No. of Positions	2-3-4-5-6-7-8-10-12-15-20-31-40-55
Current rating (A)	5-10
Shell Size (dia.)	12-15-21-24-31
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Diallyl phthalate (UL94V-0, Color: Black)
Applicable Cable (mm)	Cable clamp Dia.:5 to 8,6.5 to 11.5, Dia.:4,5,6,7,8,9,12,14,16,18, Solder pot inner dia.:1.1,1.7, Conductor:AWG#20 to #24,#24 to #28, Applicable cable dia.:15,19,26,
Termination Type	Crimp, solder
Accessories	Cable bushing, cap for plug, cap for receptacle
Remarks	Square flange receptacle available, automatic crimp machine, crimp tool, extraction tool

Small Multi-contact Waterproof connectors

RM-W Series



Features

- Wide variety of types are available to use the most suitable connectors for each application.
- Plug engaged with a receptacle meets IP67 waterproof standards. (Waterproof receptacle also satisfies IP67 standards)
- Assembly right angle plug can be extracted the cable to every direction of 360-degree.

Applications

Mobile communications base station, FA and control equipment, Measurement equipment.

Specifications

Item	Requirements
No. of Positions	2-3-4-5-6-8-10-12-15-20-26-31-40-55
Current rating (A)	5-10
Shell Size (dia.)	12-15-21-24-31
PCB Mount Type	Through hole
Contact Plating	Gold, Silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Diallyl phthalate (UL94V-0, Color: Black)
Applicable Cable (mm)	Cable clamp Dia.:7 to 10
Termination Type	Crimp, solder
Remarks	Mating waterproof (IP67)

JIS C 5432 (Japanese industrial standard) connectors

JR Series



Features

- Meeting JIS C 5432 (Japanese industrial standard) for Electronic Equipment Circular Connectors.
- Excellent performance both electrically and mechanically.
- Five-key in the fitting section to ensure smooth mating.

Applications

Machine tools, FA-related equipment, Communications equipment

Specifications

Item	Requirements
No. of Positions	3-4-5-7-8-10-14-16-24-26
Current rating (A)	3-5-10-30
Shell Size (dia.)	13-16-21-25
Contact Plating	Silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Phenol (UL94V-0, Color: Black), epoxy (Color: greenish brown)
Applicable Cable (mm)	Solder pot inner dia.:1.1,1.7,3.4,Conductor:AWG#16 to #20,#20 to #24,#24 to #28(Crimp)
Termination Type	Crimp, solder
Industry Standard	JIS
Accessories	Cap for receptacle, cable clamp
Remarks	Bayonet mating type available, automatic crimp machine, crimp tool, extraction tool

JIS C 5432 (Japanese industrial standard) Waterproof connectors

JR*W Series



Features

- Meeting JIS C 5432 (Japanese industrial standard) for Electronic Equipment Circular Connectors.
- Waterproof structure (IP67 or more), so that water will not penetrate inside when placed underwater to a depth of 1.8m for 48 hours.
- Provided with outer metal plated with black chromium to prevent corrosion.
- Five-key in the fitting section to ensure smooth mating.
- A versatile variety of models with four types of shell size, and the number of pins selectable from 12 types.

Applications

Machine tools, FA-related equipment, Communications equipment

Specifications

Item	Requirements
No. of Positions	3-4-5-7-8-10-16-24
Current rating (A)	3-5-10-30
Shell Size (dia.)	13-16-21-25
Contact Plating	Silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Phenol (UL94V-0, Color: Black), epoxy (Color: greenish brown)
Applicable Cable (mm)	Solder pot inner dia.:1.1,1.7,3.4,Conductor:AWG#20 to #24,#24 to #28,#16 to #20(Crimp)
Termination Type	Crimp, solder
Accessories	Cable clamp
Remarks	Mating waterproof (IP67), automatic crimp machine, crimp tool, extraction tool

JIS B 6015 connectors compliant to MIL-C-5015

H/MS Series



Features

- Conforming to MIL-C-5015 (US army standard) requirements; models JIS B 6015 (Electric Equipment for Machine Tools); Compatible with MS connectors.
- Models incorporating a protective circuit (grounding terminal) complying with T-V (DIN VDE 0627) requirements available.
- Right angle plug ensuring ease of wiring with a sectioned shell.
- Waterproof male contacts receptacle prevents penetration of water into the interior of the equipment.
- Plug and receptacle perfectly satisfies IP67F waterproof requirements or more.

Applications

NC machine tools, FA-related equipment, Communications equipment, Measurement equipment, Vehicles, vessels, Computers and related equipment, Medical equipment, Broadcast equipment

Specifications

Item	Requirements
No. of Positions	2-3-4-6-7-8-17-19
Current rating (A)	13-23-46
Shell Size (dia.)	10-18-20-22-24
Contact Plating	Silver
Operating Temperature Range (°C)	-40 to 125
Insulator	PPS, PBT (UL94V-0, Color: Black), Silicone rubber (Color: Black)
Applicable Cable (mm)	Solder pot inner dia.:1.8,2.6,2.9,4,4.5,5.3,Conductor:AWG#24 to #28(Crimp)
Termination Type	Crimp, solder
Industry Standard	MIL
Accessories	Cable clamp
Remarks	Mating waterproof, waterproof receptacle (IP67F), non-waterproof type available, automatic crimp machine, crimp tool, extraction tool

Metal connectors

HS Series



Features

- Generally called metal connector and most widely used as standard multi-pin circular connector.
- Sturdy and simple in construction.
- Mechanically and electrically stable.
- Employed as standard parts by NTT and set manufacturers.

Applications

Power supplies for industrial equipment, Devices for communications stations

Specifications

Item	Requirements
No. of Positions	2-3-4-5-6-7-8-10-12-16-20
Current rating (A)	2-3-4-7-10-20-30-40
Shell Size (dia.)	12-14-16-21-25-28-35
Contact Plating	Silver, nickel
Operating Temperature Range (°C)	-25 to 85
Insulator	PPS (UL94V-0, Color: Black), Phenol (Color: Brown)
Applicable Cable (mm)	Solder pot inner dia.:1.2,1.5,1.8,2.0,5.0(Receptacle side6),1.8(Receptacle side1.5),4.0(Receptacle side5),Crimp terminal inner dia.4.7,Solder pot inner dia.4.0(Receptacle side3.0)
Termination Type	Solder
Accessories	Cap for receptacle

Multi-contact connectors for FA-related equipment

HR22 Series



Features

- Models of waterproof structure (compatible with models not of waterproof structure) are available, so that water will not penetrate inside when placed underwater to a depth of 1.8 m for 48 hours.
- Locking mechanism with an anti-loosening spring in a screw coupling.
- Receptacle that can be mounted quickly on the panel surface by tightening a nut.
- Shell with a cord bushing for increased cable curvature and protection against wire breakage when the cable is bent.
- Designed with a maximum plug diameter of 21mm for high-density mounting of 20-pin connectors.

Applications

NC machine tool, FA-related equipment, Communications equipment, Measurement equipment

Specifications

Item	Requirements
No. of Positions	20
Current rating (A)	2
Shell Size (dia.)	12
Contact Plating	Silver
Operating Temperature Range (°C)	-25 to 85
Insulator	PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:8.5(Non-waterproof),10(Waterproof),Conductor:AWG#24 to #28(Crimp)
Termination Type	Crimp, solder
Remarks	Mating waterproof type available, automatic crimp machine, crimp tool, extraction tool

Waterproof connectors for power distribution equipment

HR21 Series



Features

- Waterproof plug and receptacle prevent penetration of water into the interior of the equipment, so that the resin filling time is contracted with an increase in work efficiency.
- Stopper maintaining the clearance between the female terminals and insulator, preventing the female terminals from wobbling, and providing stable contact construction.
- Terminal solder pot in the same direction insuring improvement in wiring work.
- Thermoplastic resin used for the insulator in consideration of the resistance of fall impact.
- Chrome-plated connector sheath in consideration of environment resistance.

Applications

Power distribution equipment, Switches, Substation, Control equipment

Specifications

Item	Requirements
No. of Positions	2-3-4-5-6-7-8
Current rating (A)	10-15
Shell Size (dia.)	26
Contact Plating	Gold, nickel
Operating Temperature Range (°C)	-25 to 85
Insulator	PPS (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:12.5 to 14,Conductor:3.5mm ² max.(2pos only),2mm ² max.
Termination Type	Solder
Accessories	Waterproof cap, cap
Remarks	Waterproof plug, waterproof receptacle (IP67)

Small push-pull connectors (General purpose type)

HR10A Series



Features

- Inexpensive, economical connector compatible with the HR10.
- Comes with rubber bushing to prevent damage from cable bending.
- Special hand tool to uniformly crimp the cable clamp to ensure increased cable clamp force.
- Connection ring incorporating a grid knurl is slip preventive.
- Provided with silver-plated standard terminals. Gold-plated terminals are available as well.

Applications

Computers, Peripheral and terminal equipment, Medical equipment, AV equipment, Radio equipment, Measurement equipment, CCD cameras

Specifications

Item	Requirements
No. of Positions	4-5-6-10-12-20
Current rating (A)	2
Shell Size (dia.)	7-10-13
PCB Mount Type	Through hole
Contact Plating	Gold, silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Polyamide (Color: Black), PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:5,7,Solder pot inner dia.:0.8,Conductor:AWG#26 max.(Solder),AWG#26 to #30(Crimp)
Termination Type	Crimp, solder
Accessories	Cap
Remarks	Connection tools, automatic crimp machine, crimp tool, extraction tool

Small push-pull connectors

HR10 Series



Features

- The most compact model is as slender as a cigarette, in consideration of compactness, high-density mounting, high reliability, light weight, rigidity, and ease of transportation.
- One-touch, push-pull coupling mechanism ensuring easy and quick insertion and extraction.
- The shell incorporates five-key mating guide to prevent insertion mistakes.
- Provided with gold-plated standard terminals.

Applications

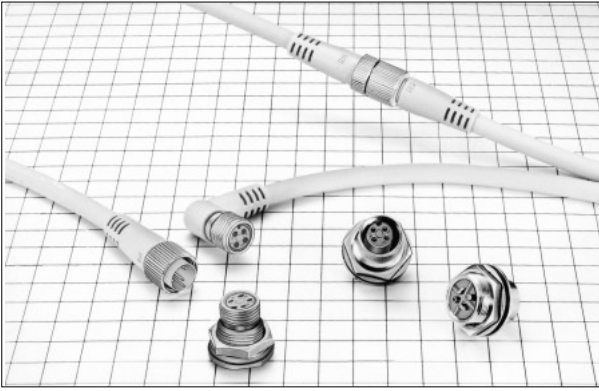
Computers, Peripheral and terminal equipment, Medial equipment, AV equipment, Radio equipment, Measurement equipment, CCD cameras

Specifications

Item	Requirements
No. of Positions	4-6-12
Current rating (A)	2
Shell Size (dia.)	7-10
PCB Mount Type	Through hole
Contact Plating	Gold
Operating Temperature Range (°C)	-25 to 85
Insulator	Polyamide (Color: Blue)
Applicable Cable (mm)	Dia.:5,7,Solder pot inner dia.:0.8,Conductor:AWG#26 max.(Solder)
Termination Type	Solder
Accessories	Cap
Remarks	Connection tools, automatic crimp machine, crimp tool, extraction tool

Waterproof multi-contact connectors conforming to 4202 (FA sensor connectors) standards

HR24 Series



Features

- General purpose connector conforming to 4202 (FA sensor connector) standards of the NECA (Nippon Electric Control Equipment Industries Association).
- Plug engaged with a receptacle or a jack meets IP67 waterproof standards, and also oil proof.
- Insulating wall provided between receptacle terminals to prevent short circuiting resulting from barbed wires at the time of wire soldering.
- DC and AC connectors available; straight and right-angle connectors with cable available with a cable diameter of 4.4 or 6.8mm.
- Receptacles are mounted to panels in two ways (i.e., front mounting and back mounting) and directly to sensors with or without screws.

Applications

Sensors, Limit switches, Proximity switches, Photoelectric switches, Pressure switches

Specifications

Item	Requirements
No. of Positions	4-5
Current rating (A)	3
Shell Size (dia.)	8-9
PCB Mount Type	Through hole
Contact Plating	Gold, silver
Operating Temperature Range (°C)	-40 to 85
Insulator	PBT (UL94V-0, Color: Gray)
Applicable Cable (mm)	Solder pot inner dia.:1,1.1,1.4
Termination Type	Solder
Industry Standard	NECA, Device Net
Accessories	Cap
Remarks	Mating waterproof (IP67)

Connectors for audio equipment

HA Series



Features

- Latch-lock circular connector for audio equipment.
- Provided with a grounding function to prevent external noise.
- Two types of plug-side cable clamp mechanisms are selectable along with the receptacle-side connectors in four sizes according to the design and mounting space requirement.
- The lock release levers in the plug receptacle come in two types that are selectable according to the application.
- An high-fidelity model is available, using terminals made from 6N high-purity oxygen-free copper.

Applications

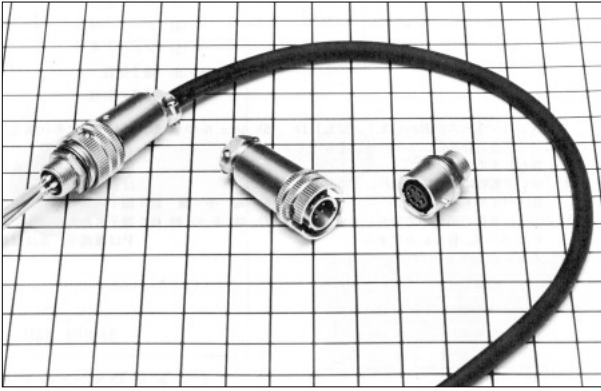
Microphones, Microphone mixers, Broadcasting equipment

Specifications

Item	Requirements
No. of Positions	3-4-5-7
Current rating (A)	3-4-5-15
Shell Size (dia.)	16
PCB Mount Type	Through hole
Contact Plating	Gold, silver
Operating Temperature Range (°C)	-25 to 70
Insulator	Polyamide or PBT or synthetic rubber (Color: Gray or Black)
Applicable Cable (mm)	Dia.:4 to 6
Termination Type	Solder
Remarks	Cannon plug type, High sound quality type (3 pos.) available

Small bayonet lock connectors

HR11 Series



Features

- Compact, lightweight, sturdy, and highly reliable multi-pin circular connector with a connector outside diameter of 14.7mm.
- Bayonet lock mechanism ensuring high insertion and extraction operability.
- Five-key mating guide to prevent insertion mistakes.
- Plugs, receptacles, and jacks of male and female terminal types are available.
- Enhanced packaging density using hexagon headed nut tightening mechanism to fix the receptacle to the panel.

Applications

Communications equipment, Broadcast equipment, Measurement equipment, Radio equipment

Specifications

Item	Requirements
No. of Positions	4-6
Current rating (A)	2
Shell Size (dia.)	9
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polyamide (Color: Black)
Applicable Cable (mm)	Dia.:4.5 to 5.5,Solder pot inner dia.:0.8
Termination Type	Solder

World smallest multi connectors

HR25 Series



Features

- Compact, high-density circular connector with a maximum of 20 contacts into a maximum outside diameter of 12.5mm.
- Connector with a push-pull locking mechanism in consideration of operability and a screw locking mechanism with vibration resistance.
- Structure with the pins located safely so that pins will not be damaged if male pins are inserted incorrectly.
- Rubber gasket to the panel mounting part of the receptacle to prevent the penetration of water into the interior of the set.
- Gold-plated contacts to maintain contact stability.

Applications

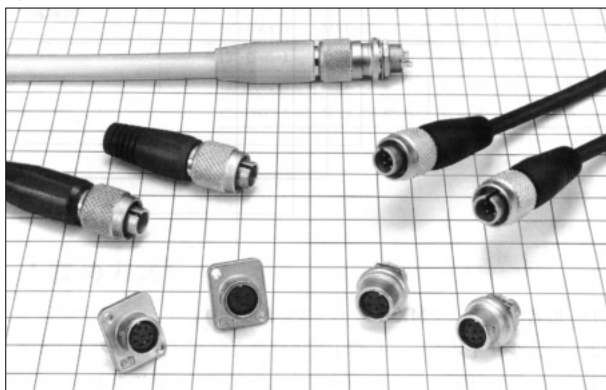
CCD cameras, Measurement equipment, A variety of sensors, On-vehicle radio communications equipment, Medical equipment

Specifications

Item	Requirements
No. of Positions	4-6-8-12-16-20
Current rating (A)	1
Shell Size (dia.)	7-9
PCB Mount Type	Through hole
Contact Plating	Gold
Operating Temperature Range (°C)	-25 to 85
Insulator	PPS (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:.5,Conductor:AWG#28 max.(Solder),Dia.:.7,Conductor:AWG#28 max.(Solder),AWG#30,32(Crimp)
Termination Type	Crimp, solder
Remarks	Automatic crimp machine, crimp tool, extraction tool

Small push-pull lock connectors with grounding

MXR Series



Features

- Use of aluminum alloy for the shell contributing to the compact lightweight design with an outside diameter of 13.9mm and a ground terminal provided.
- One-touch, push-pull locking mechanism for quick insertion and extraction and high-density mounting.
- The metal portion of the shell forms part of the contacting structure to satisfy FCC requirements.
- Sequential construction with one of the three pins designed to come in contact before the other two pins.
- Models include plugs that can be cable clamped by just tightening the cable tube with no special tools required.

Applications

VTR cameras, System cameras, Audio equipment

Specifications

Item	Requirements
No. of Positions	3-4-6-8
Current rating (A)	2
Shell Size (dia.)	8
PCB Mount Type	Through hole
Contact Plating	Gold
Operating Temperature Range (°C)	-25 to 85
Insulator	PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:5,8,Solder pot inner dia.:0.9
Termination Type	Solder
Remarks	Connection tools, automatic crimp machine, crimp tool, extraction tool,Cable crimp tool, tightening tool

Small screw lock connectors

SR30 Series



Features

- Compact circular connector for use in the microphone circuitry of compact wireless communications equipment.
- Maximum outside diameter of 15mm.
- Streamlined design well suited for compact devices.
- Bushings are provided for the cable ends to prevent disconnection damage from bending.

Applications

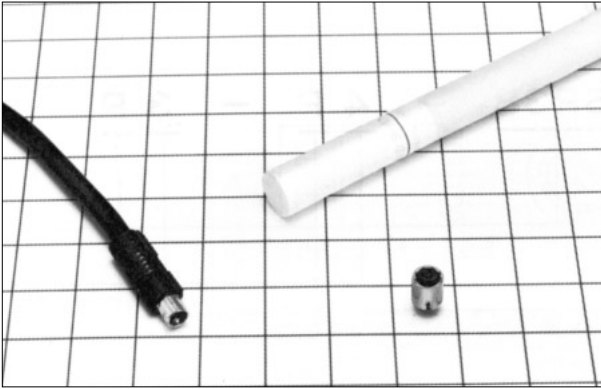
High-grade transceivers, ITV cameras, Radio equipment, Compact electronic devices

Specifications

Item	Requirements
No. of Positions	4-6-7
Current rating (A)	1
PCB Mount Type	Through hole
Contact Plating	Gold, silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polyacetal (Glass reinforced)
Applicable Cable (mm)	Dia.:4,3,5,2,5,7,5,5,Solder pot inner dia.:0.8(Plug),0.9(Jack, receptacle)
Termination Type	Solder
Accessories	Metal clamp, cap
Remarks	Crimp tool, connection tools

Small push-on connectors

SR38 Series



Features

- Connector with a standard outside diameter of 5.3mm (excluding protruding parts) for compact interfaces allowing space-saving installation.
- Simple locking mechanism.
- With contact surfaces on both plug and receptacle in consideration of shielding performance.
- Provided with a plug that can be assembled with no special tools required, thus ensuring ease of wiring.

Applications

AV equipment, Measurement equipment, Sensors, A variety of electronic devices

Specifications

Item	Requirements
No. of Positions	3
Current rating (A)	0.5
Shell Size (dia.)	4
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-15 to 60
Insulator	PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:3.5,Solder pot inner dia.:0.5
Termination Type	Solder

Miniature waterproof plastic connectors

HR30 Series



Features

- Compact and low height yet meeting IP67 waterproof requirements.
- Plastic shell is lightweight and less expensive than conventional metal connectors.
- Easy to operate with push-pull locking mechanism.
- Cable clamp construction with the cable tube tightened.
- Five guide keys and white mark painted at the mating position assuring quick insertion and extraction with ease.

Applications

Measurement equipment, Communications equipment, Compact electronic devices

Specifications

Item	Requirements
No. of Positions	3-6-10-12
Current rating (A)	2-5
Contact Plating	Gold
Operating Temperature Range (°C)	-25 to 85
Insulator	PPS (UL94V-0, Color: Black), PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:3.5 to 4.3,4.2 to 5,6.2 to 7,Solder pot inner dia.:0.8,1.1,Conductor:AWG#26 to #30(Crimp)
Termination Type	Crimp, solder
Accessories	Cap
Remarks	Mating waterproof, (IP67), Tightening collar for back shell, connection tools, automatic crimp machine, crimp tool, extraction tool

One-piece molding connectors

HR12 Series



Features

- Plugs with an outside diameter range from 12 to 16mm respond to the compact, lightweight, and high-density mounting needs of electronic devices.
- Shield mechanism with built-in metal parts; HR12 (20 pins) and HR212 are models of reinforced EMI protection.
- Snap-lock mechanism ensuring ease of insertion and extraction, and prevents the connector from disconnection due to shock or vibration.
- The plug cable ends has a bellows of mono-block construction preventing conductor disconnection damage from bending.
- A versatile assortment of models with both straight and right angle plugs and receptacles available.

Applications

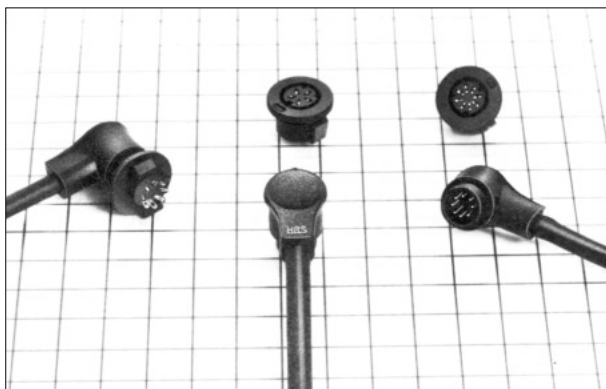
Office equipment, VTR, Audio equipment, Communications equipment, Automobile equipment

Specifications

Item	Requirements
No. of Positions	4-5-8-10-20
Current rating (A)	1,5
Shell Size (dia.)	10-14
PCB Mount Type	Through hole
Contact Plating	Gold, silver, tin
Operating Temperature Range (°C)	-15 to 60
Insulator	PBT (UL94V-0, Color: Black), polycarbonate (UL94V-1, Color: Black)
Applicable Cable (mm)	Conductor:AWG#26 to #30(Crimp),Dia.:4.8mm,Conductor:AWG#26 max.(Solder)
Termination Type	Crimp, solder
Accessories	Stopper plate, spacer
Remarks	Plug assembly type available, automatic crimp machine, crimp tool, extraction tool

One-piece molding connectors

RP6 Series



Features

- L-shaped plug featuring low height coupling with receptacle of approximately 15mm above the mounting panel.
- Receptacle not protruding from the equipment.
- Receptacle connected to the panel by one-touch pushing without any screws required.
- Plug shell designed for ease of holding for insertion and extraction.
- Cable length and end treatment finished according to the customer's specifications.

Applications

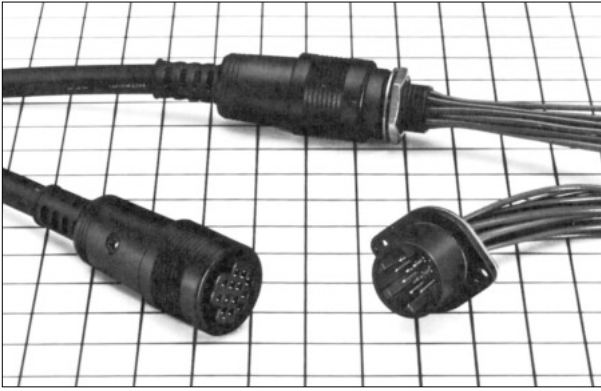
Electronic view finders of VTR cameras connection, VTR remote control equipment connection, AV equipment

Specifications

Item	Requirements
No. of Positions	5-8-10
Current rating (A)	1
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polyamide (UL94V-1, Color: Black)
Applicable Cable (mm)	Conductor:AWG#26 to #30
Termination Type	Crimp, solder
Remarks	Automatic crimp machine, crimp tool, extraction tool

RP13 type Push-pull lock connectors

RP13 Series



Features

- Compact, lightweight, rigid, highly reliable circular connector with an outside diameter of 16.9mm developed in response to increasing needs for more compact equipment.
- One-touch, push-pull locking mechanism for quick insertion and extraction and high-density mounting.
- Multi-slot key mating guide to prevent insertion mistakes.
- Lightweight yet rigid outer shell made of strong glass fiber polycarbonate resin.
- Models with electrostatic measures available.

Applications

VTR equipment, Office equipment, Radio communications equipment, Industrial equipment, VTR monitors

Specifications

Item	Requirements
No. of Positions	13-15-20
Current rating (A)	2
PCB Mount Type	Through hole
Contact Plating	Gold, silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polycarbonate (UL94V-0, Color: Black)
Applicable Cable (mm)	Solder pot inner dia.:4.7,5.7,6.1,6.4,7.1,7.5,8.1, Conductor:AWG#18 to #22,AWG#24 to #28
Termination Type	Crimp
Remarks	Right angle through hole type available, electrostatic protection type available, automatic crimp machine, crimp tool, extraction tool

RP17 type Push-pull lock connectors

RP17 Series



Features

- One-touch, push-pull locking mechanism for quick insertion and extraction and high-density mounting.
- Using 5A cable to 3 pins out of the 12 pins, and 2A cable to the rest of the pins (9 pins).
- Multi-slot key mating guide to prevent insertion mistakes.
- Simple and slender appearance with a cable clamp built in.
- Indicates the mating position mark white, thus assuring quick connection and disconnection with ease.

Applications

Camcorder, portable Radio communications equipment, Remote control equipment, Audio equipment, Measurement equipment, Copying machines, Printers

Specifications

Item	Requirements
No. of Positions	12
Current rating (A)	2-5
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polycarbonate (UL94V-0, Color: Black) or PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Cable clamp inner dia.:5.3,6.1, Conductor:AWG#18 to #22,#24 to #30
Termination Type	Crimp
Remarks	Electrostatic protection type available, automatic crimp machine, crimp tool, extraction tool

RP31 type connectors with coaxial switch

RP31 Series



Features

- Compact, lightweight, and rigid circular plastic connector developed for mobile telephones.
- 10-pin circular compound connector with a built-in coaxial switch.
- One-touch push-pull coupling mechanism ensuring easy and quick insertion and extraction.
- Five-key mating guide to prevent insertion mistakes.
- One-touch, push-pull lock for high-density mounting.

Applications

Mobile telephone

Specifications

Item	Requirements
No. of Positions	10
Current rating (A)	2
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polycarbonate (UL94V-0, Color: Black)
Applicable Cable (mm)	Cable clamp inner dia.:5.2, Conductor:AWG#26 to #30
Termination Type	Crimp
Remarks	Automatic crimp machine, crimp tool, extraction tool

RP type connectors

RP Series



Features

- Plastic connector for consumer electronic equipment.
- Low-cost, light-weight, and stable consumer electronic equipment.
- One-touch, push-on locking mechanism ensures ease of insertion and extraction.

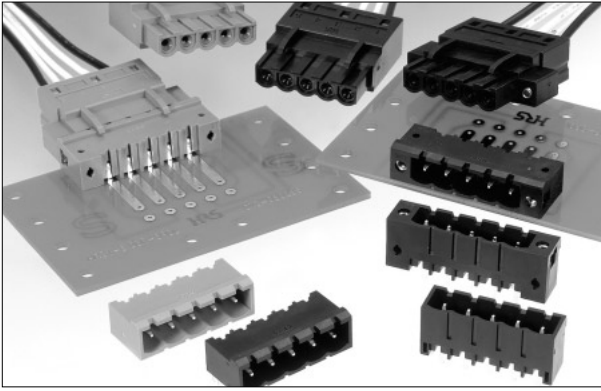
Applications

Consumer electronic equipment

Specifications

Item	Requirements
No. of Positions	3-4-6-7
Current rating (A)	5-1(4 pos.)
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polyamide (Color: Black or Blue), polyacetal (Color: Black or Gray)
Applicable Cable (mm)	Solder pot inner dia.:1.4,0.9
Termination Type	Solder

Interface connectors for factory automation network compliant to Device net HR31 Series



Features

- Conforming to Device-Net standards as FA network standards (Terminal contact block: Gold plated).
- Crimping wiring connects the connector securely by just inserting the connector into the housing after crimping wiring.
- Housing with pin numbers specified in order to prevent mistakes in wiring.
- Plug connector 4.8mm lower than that of any other manufacturers' competitive products, thus achieving the height as low as 10.2mm.
- Screw lock model ensures perfect locking.

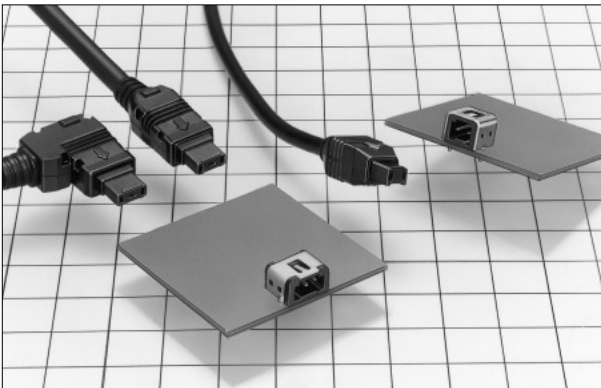
Applications

Power supply and communications blocks of FA-related equipment

Specifications

Item	Requirements
No. of Positions	5
Current rating (A)	10-12
PCB Mount Type	Through hole
Contact Plating	Tin-lead
Operating Temperature Range (°C)	-40 to 100
Insulator	PBT (UL94V-0, Color: Black or Green)
Applicable Cable (mm)	Conductor:1.04 to 2.63mm ² ,0.25 to 1.65mm ²
Applicable PCB Thickness (mm)	1.6
Industry Standard	Device Net
Remarks	Crimp tool, extraction tool

RP34L type connectors for the AC power supply (Low profile type) RP34L Series



Features

- Compact, lightweight plastic connector for the AC power supply adapter interfaces of notebook PCs.
- Compact low-profile receptacle with an installation height of 6.1mm (2-pin type) or 5mm (3-pin type) and a depth of 7mm.
- Snap-locking mechanism with a click audible when the connector is fully mated.
- Strong against cable twisting and scooping.
- Sequential construction with one of the three pins designed for a grounding terminal that comes in contact before the other two pins.

Applications

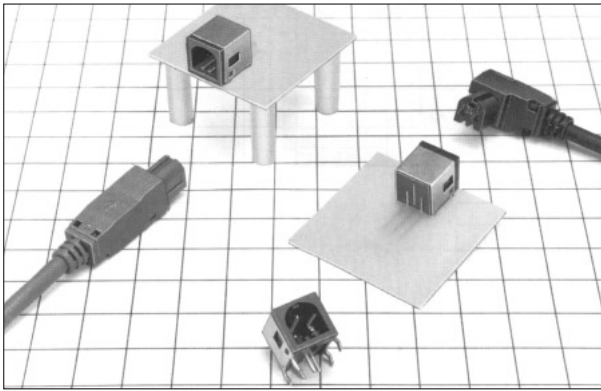
Notebook PCs, Portable terminal equipment, AV equipment

Specifications

Item	Requirements
No. of Positions	2-3
Current rating (A)	5
PCB Mount Type	Through hole
Contact Plating	Palladium, silver
Operating Temperature Range (°C)	-25 to 85
Insulator	Polyamide (UL94HB, Color: Black), PPS (UL94V-0, Color: Black)
Applicable Cable (mm)	Dia.:4, Conductor:AWG#18 to #22
Termination Type	Crimp
Remarks	Automatic crimp machine, crimp tool, extraction tool

RP34 type connectors for the AC power supply

RP34 Series



Features

- Compact, lightweight, 3- and 4-pin plastic connectors for the AC adapter interfaces of notebook PCs.
- Snap-locking mechanism for ease of insertion and extraction.
- PCB-mounting receptacle with a mating side of 10 x 10mm (for 3 pins) or 10 x 11mm (for 4 pins) with a depth of 11.3mm.
- Sequential construction with one of the three or four pins designed for a grounding terminal that comes in contact before the other two or three pins.
- A snap-fit assembling method for plug, thus eliminating the use of screws and ensuring ease of assembling.

Applications

Notebook PCs, Portable terminal equipment, AV equipment, Office equipment, Communications equipment

Specifications

Item	Requirements
No. of Positions	3-4
Current rating (A)	3
PCB Mount Type	Through hole
Contact Plating	Silver
Operating Temperature Range (°C)	-10 to 60
Insulator	Polycarbonate (UL94V-0, Color: Black), PBT (UL94V-0, Color: Black)
Applicable Cable (mm)	Cable clamp inner dia.:4.4, Conductor:AWG#18 to #22
Termination Type	Crimp
Remarks	Automatic crimp machine, crimp tool, extraction tool

Circular Connectors

Rectangular Connectors

Coaxial Connectors

Memory Card

Modular Connectors

Card Edge Connectors

Board-to-Board Connectors

Board-to-Wire Connectors

FPC/FFC Connectors

Optical Connectors and Devices

Microwave Components