

CABLE & CONNECTOR CATALOGUE

JOIN TEK CORPORATION CO., LTD



JOIN TEK

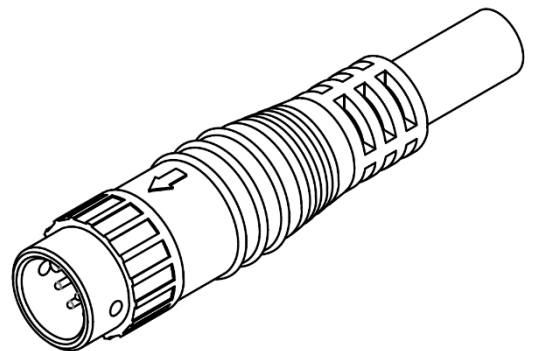
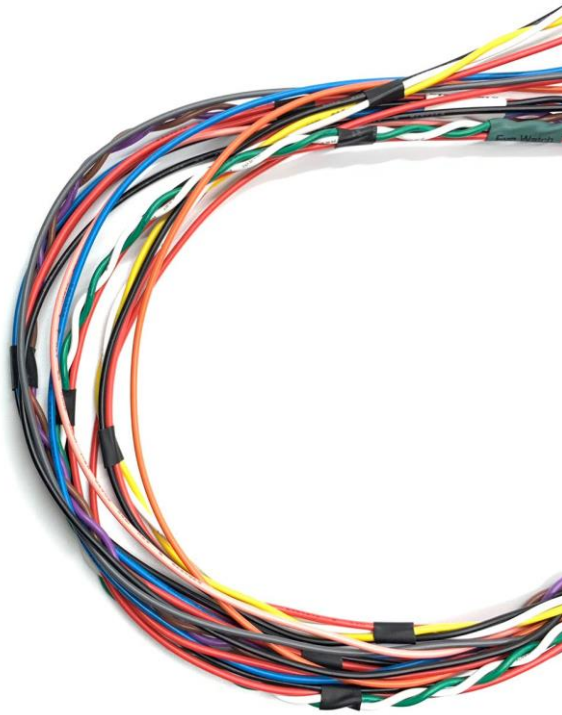


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Cable Assembly

Cable assemblies for automotive sector is required by high capacity and excellent quality. Join tek's unlimited services certified by IATF 16949 has the experience and manufacturing capability to supply wire harness and cable assemblies. Cable assemblies include simple jumper to complex high-end harness for automotive systems. Our cable assemblies include the latest industry innovations in high-speed data transfer for the newest systems and applications. In addition, our broad portfolio of cable connectors and accessories can be used in our cable assemblies to provide a complete solution.



Cable Assembly for Automobile

Overview-IATF 16949 Certified

Join Tek is specialized in the automotive industry, by providing an excellent quality of cable assembly for different module and system of automotive parts. The over-molded technology may provide a robust connectivity, with a wide-range temperature resistance to perform in harsh environment.



Feature

1. Specialized in cable assembly of ADAS System (Advanced driver-assistance systems)
2. Wide range of temperature resistance
3. Comply to requirements of IPC-A-620 to have secured terminals
4. High-tech Glue dispensing
5. Sophisticated soldering technique
6. Complex wire harness assembly

Automotive Application

1. Automotive ADAS System
2. Automotive Lighting system
3. Automotive Rearview mirror
4. Automotive Cooling fan System
5. IVI system
6. Power Seat System

Other Application

1. Medical
2. Military
3. Consumer

Spec

Customized

Technique

1. Reliable Soldering technique
2. Water-proof air-tight test
3. Glue Dispensing
4. Pulling force test between terminal, wire and housing
5. High-tech over-molded technique







Water-proof Connector



Water proof connector is crucial for automotive industry now days. We need to consider all the aspect of connectors! like water-proof level, stability, electric current or even the user story for the e-bike assembly process.

There are also different types of connectors that fit in different part of Ebike, like controller, display, brake, motor or battery.



Water-proof Connector Table

Item no.	JT-05	JT-Beetle	JT-06	JT-07	JT-08	JT-10
Photo						
Dimension	M5	M5	M6	M7	M8	M10
Contacts	2-4 pin	2-6 pin	2-6 pin	2-6 pin	2-6 pin	2-6 pin
Type	Screw	Direct Plug	Direct Plug	Direct Plug	Direct Plug	Direct Plug
Rated Current	3A (Depends on the cable)	3A (Depends on the cable)	3A (Depends on the cable)	3A (Depends on the cable)	3A (Depends on the cable)	3A (Depends on the cable)
Rated Voltage	250V	250V	250V	250V	250V	250V
Insulation resistance	$\geq 20M\Omega$	$\geq 20M\Omega$	$\geq 20M\Omega$	$\geq 20M\Omega$	$\geq 20M\Omega$	$\geq 20M\Omega$
Contact resistance	$\leq 10m\Omega$	$\leq 10m\Omega$	$\leq 10m\Omega$	$\leq 10m\Omega$	$\leq 10m\Omega$	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles
Ingress Protection	IP67	IP67	IP66	IP66	IP66	IP66
Temp. Range	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C

Item no.	JTWP-12	JT Motor			
Photo					
Contacts	2-8 pin	9 Pin			
Type	Screw	Direct Plug			
Rated Current	3A (Depends on the cable)	3A/15A (Depends on the cable)			
Rated Voltage	250V	250V			
Insulation resistance	$\geq 20M\Omega$	$\geq 20M\Omega$			
Contact resistance	$\leq 10m\Omega$	$\leq 10m\Omega$			
Durability Repeated	Insert and withdraw up to 200 cycles	Insert and withdraw up to 200 cycles			
Ingress Protection	IP66	IP66			
Temp. Range	-40°C~85°C	-40°C~85°C			

M5 Screw Lock



Overview

M5 Screw-Lock connectors are airy but a smart solution for harsh environments. M5 Screw-Lock connectors also carry reliable signal, airtight tested for the environmental protection and 96 hours spray salt tested.

M5 Screw Lock Feature

1. M5 connector easily installable connector system
2. Environment protection IP67
3. Light weight
4. M5 connector Airtight Tested
5. 96 hours spray salt tested
6. M5 connector also available with gold-flash plated contacts for higher conductivity
7. M5 connector Lock Shield reliable
8. Quick and secure connection
9. Compact, reliable, and environmentally protected connection system
10. M5 Screw Lock Includes signal and terminated cable assemblies of over-molded construction
11. UL 94V-0 flammability rating

Application

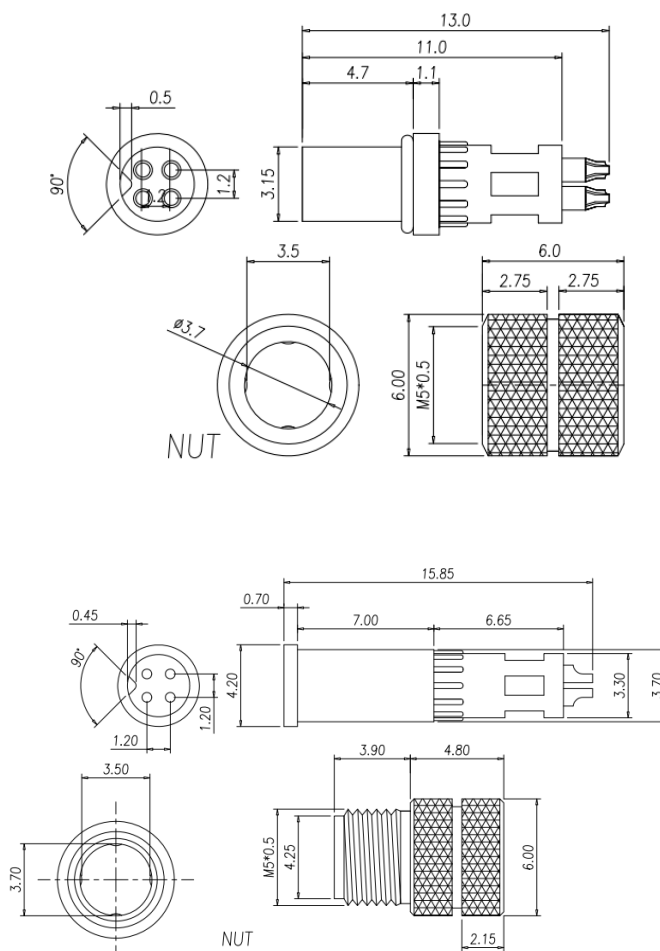
1. Transportation
2. LEV
3. Industrial
4. Illumination
5. Test Equipment
6. Medical Equipment
7. Mobile devices
8. Renewable energy
9. Military

Spec

Item Number	JT-05 (M5 Screw Lock)
Contacts	2pin, 3 Pin, 4Pin
Dimension	M5

Type	Screw Lock
Rated Current	3A (Depends on the cable)
Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP67
Temperature Range	-40°C~85°C

Diagram



M6 Direct-Plug



Feature

Easily installable connector system

Environment protection IP67

All connectors also available with gold-flash plated contacts for higher conductivity

Shield reliable

Quick and secure connection

Compact, reliable, and environmentally protected connection system

Includes signal and terminated cable assemblies of over-molded construction

Compatible with Julet e-bike cable

Application

TRANSPORTATION (E-bike)

INDUSTRIAL

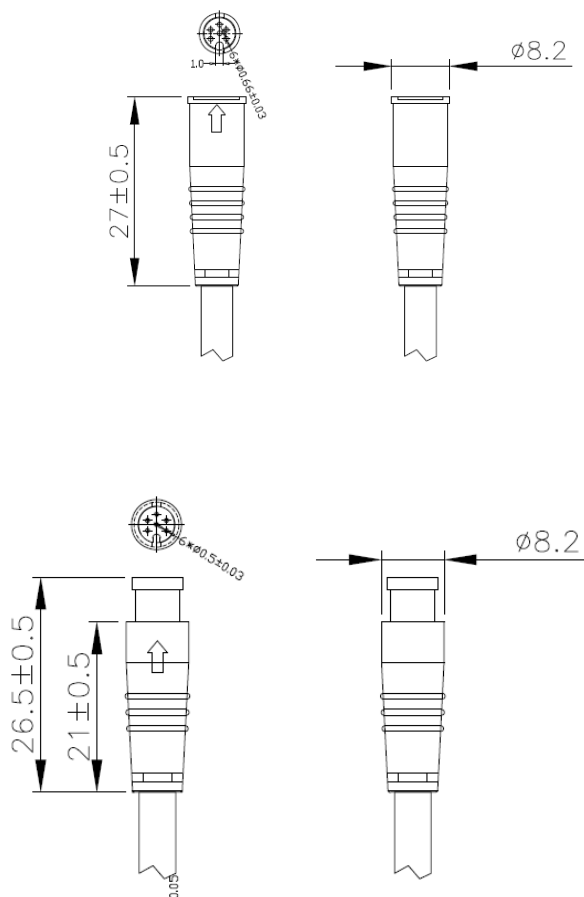
ILLUMINATION

Spec

Item Number	JT-06
Contacts	2-6 Pins
Dimension	M8
Type	Direct-Plug
Rated Current	3A (Depends on the cable)
Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$

Contact Resistance	$\leq 10\text{m}\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP66
Temperature Range	$-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

Diagram



JT Beetle *NEW RELEASE*



Overview

JT-Beetles are trusted solution for an extensive range of applications, including LEV, Industrial, Marine, Test Machine etc.

JT Beetle plug connectors are airy but a smart solution for easy-assembly. JT Beetle connectors also carry reliable signal, with tiny and lighting connectivity solution.

JT Beetle Feature

1. JT Beetle easily installable direct plug-in connector for signal transmission
2. Environment protection IP67
3. Easy installation with advance poka-yoke system
4. Light weight
5. JT Beetle also available with gold-flash plated contacts for higher conductivity
6. Quick and secure connection
7. Compact, reliable, and environmentally protected connection system
8. UL 94V-0 flammability rating

Application

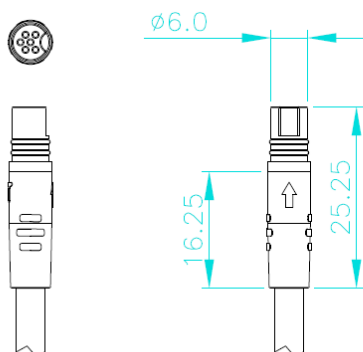
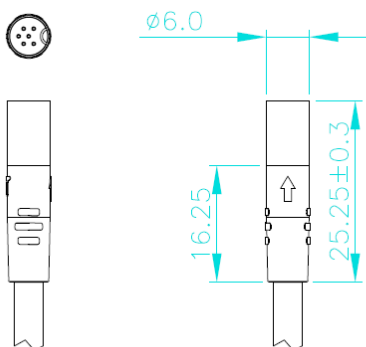
1. LEV
2. Industrial
3. Illumination
4. Test Equipment

Spec

Item Number	JT Beetle
Contacts	2 Pin, 3 Pin, 4 Pin, 5 Pin, 6 Pin
Dimension	M6
Type	Direct Plug
Rated Current	3A (Depends on the cable)
Rated Voltage	250V

Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP67
Temperature Range	$-40^{\circ}C \sim 85^{\circ}C$

Diagram



M7 Direct-Plug



Feature

1. Easily installable connector system
2. Environment protection IP67
3. All connectors also available with gold-flash plated contacts for higher conductivity
4. Shield reliable
5. Quick and secure connection
6. Compact, reliable, and environmentally protected connection system
7. Includes signal and terminated cable assemblies of over-molded construction
8. Compatible with Julet e-bike cable

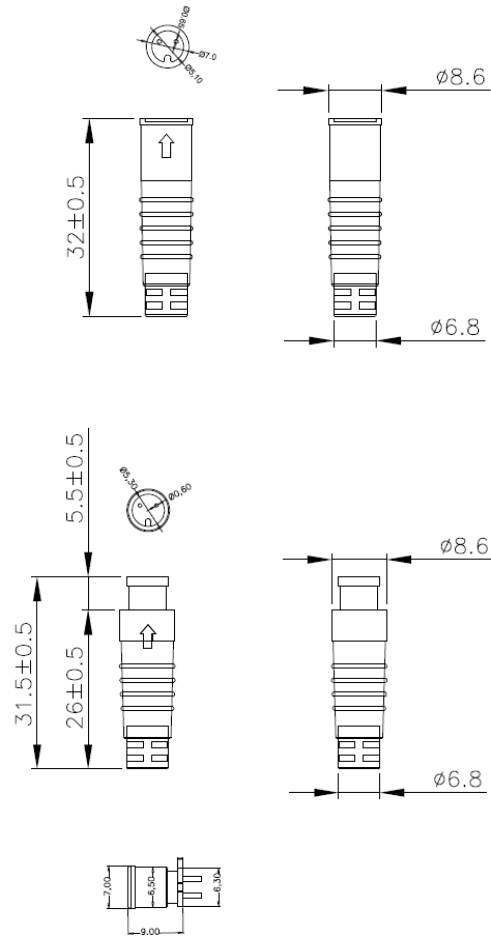
Application

1. TRANSPORTATION (E-bike)
2. INDUSTRIAL
3. ILLUMINATION

Spec

Item Number	JT-07
Contacts	2-6 Pins
Dimension	M7
Type	Normal & Screw
Rated Current	3A (Depends on the cable)
Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP66
Temperature Range	-40°C~85°C

Diagram



M8 Direct-Plug



Overview

Excellent connectivity solution for LEV for its quick installation in the production line, with intuitive assembly will definitely be a great way to start a E-bike design for all the e-bike designer.

With its reliable performance, they offer a tight, waterproof connection. There are quite a few different types based on the number of pins to provide an intuitive way for the operator in the production line.

Feature

1. M8 Plugin Easily installable connector system
2. M8 Plugin Environment protection IP66
3. All connectors also available with gold-flash plated contacts for higher conductivity
4. Shield reliable
5. Quick and secure connection
6. M8 Plugin Compact, reliable, and environmentally protected connection system
7. Includes signal and terminated cable assemblies of over-molded construction
8. M8 Plugin RoHS Compliant

Application

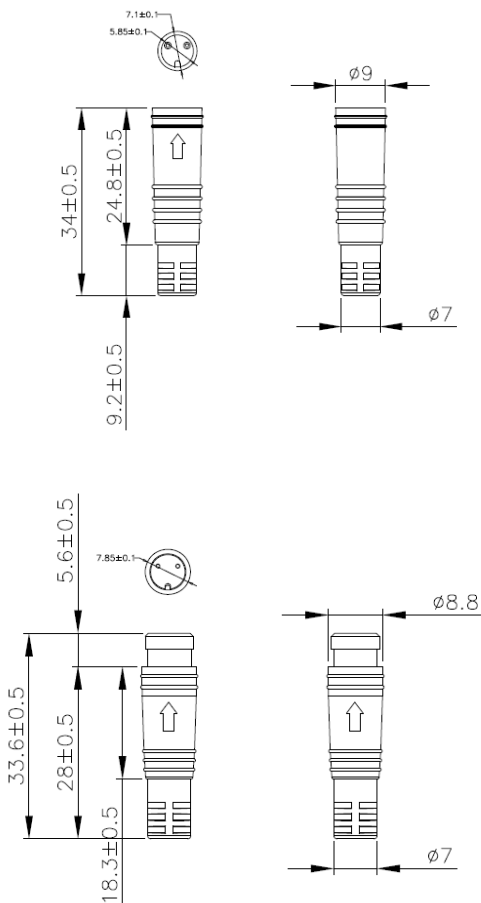
1. LEV
2. ILLUMINATION

Spec

Item Number	JT-08 M8 Plugin
Contacts	2-6 Pins
Dimension	M8
Type	Plugin
Rated Current	3A (Depends on the cable)
Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$

Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP66
Temperature Range	-40°C~85°C

Diagram



M10



Overview

Excellent connectivity solution for LEV for its quick installation in the production line, with intuitive assembly will definitely be a great way to start a E-bike design for all the e-bike designer.

With its reliable performance, they offer a tight, waterproof connection. There are quite a few different types based on the number of pins to provide an intuitive way for the operator in the production line.

Feature

1. M10 Plugin Easily installable connector system
2. M10 Plugin Environment protection IP66
3. All connectors also available with gold-flash plated contacts for higher conductivity
4. Shield reliable
5. Quick and secure connection
6. M8 Plugin Compact, reliable, and environmentally protected connection system
7. Includes signal and terminated cable assemblies of over-molded construction
8. M8 Plugin RoHS Compliant

Application

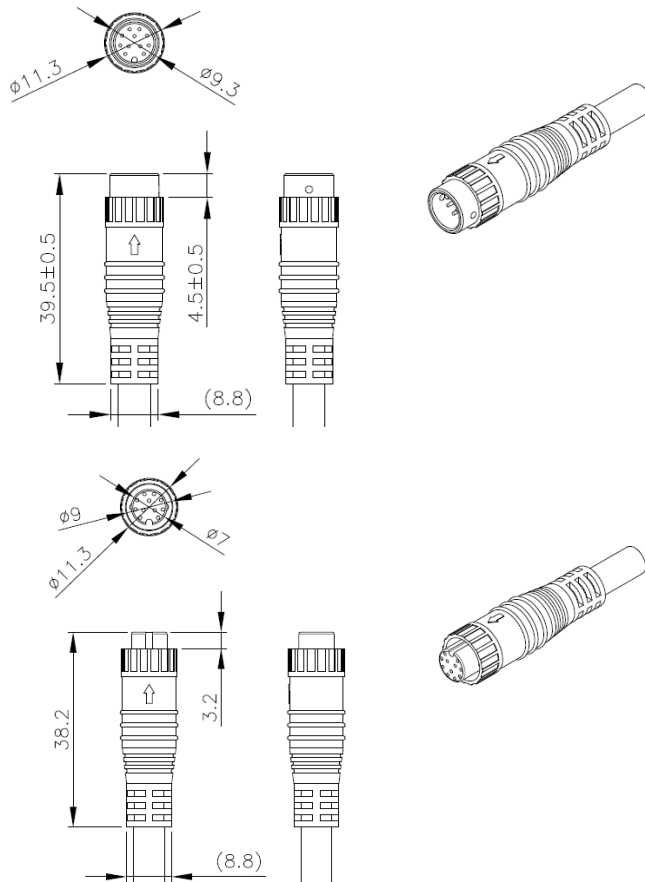
1. LEV
2. ILLUMINATION

Spec

Item Number	JT-10 M10
Contacts	2-6 Pins
Dimension	M10
Type	Screw
Rated Current	3A (Depends on the cable)

Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP67
Temperature Range	$-40^{\circ}C \sim 85^{\circ}C$

Diagram



M12



Overview

Excellent connectivity solution for LEV for its quick installation in the production line, with intuitive assembly will definitely be a great way to start a E-bike design for all the e-bike designer.

With its reliable performance, they offer a tight, waterproof connection. There are quite a few different types based on the number of pins to provide an intuitive way for the operator in the production line.

Feature

9. M10 Plugin Easily installable connector system
10. M10 Plugin Environment protection IP66
11. All connectors also available with gold-flash plated contacts for higher conductivity
12. Shield reliable
13. Quick and secure connection
14. M8 Plugin Compact, reliable, and environmentally protected connection system
15. Includes signal and terminated cable assemblies of over-molded construction
16. M8 Plugin RoHS Compliant

Application

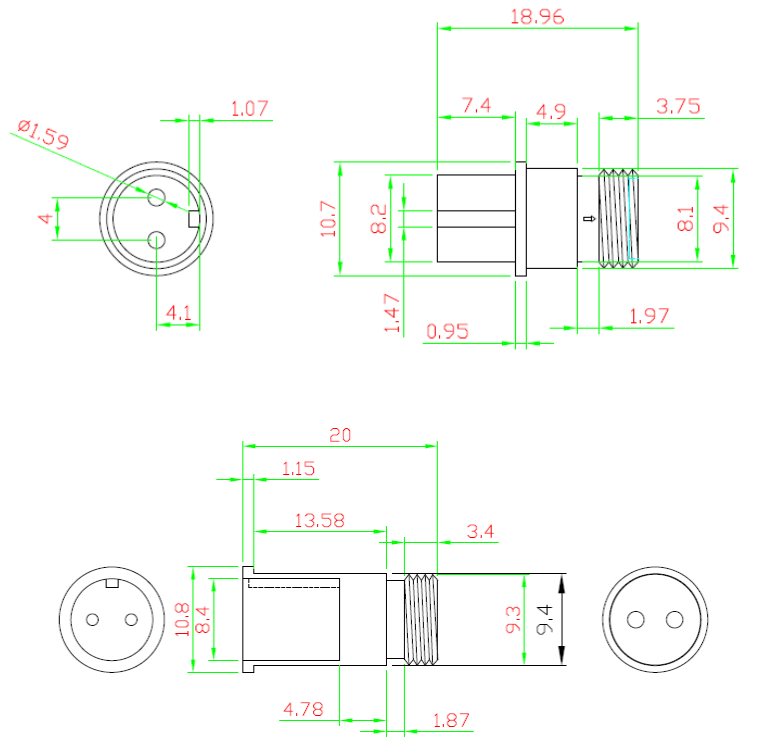
3. LEV
4. ILLUMINATION

Spec

Item Number	JT-12 M12
Contacts	2-10 Pins
Dimension	M10
Type	Screw
Rated Current	3A (Depends on the cable)
Rated Voltage	250V

Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP67
Temperature Range	$-40^{\circ}C \sim 85^{\circ}C$

Diagram



JT Bullet



Feature

1. Easily connect with only one $\varnothing 2.35$ connector pin.
2. General option for the electricity module.

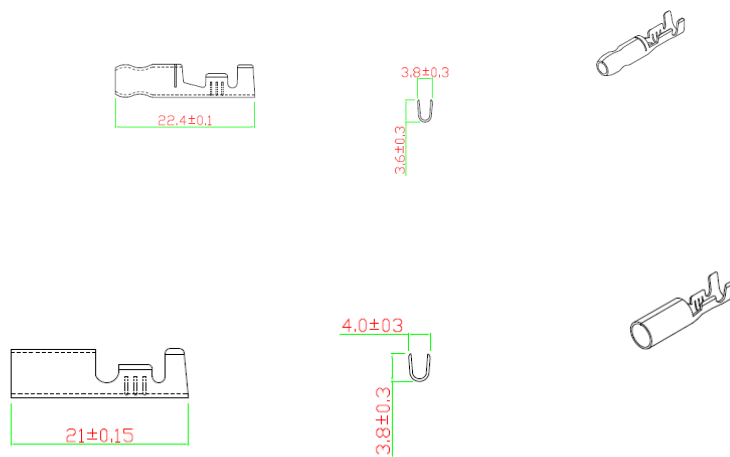
Application

1. TRANSPORTATION
2. INDUSTRIAL

Spec

Item Number	JT-Bullet
Contacts	1 Pin (Ø2.35)
Diameter of Cable	18 to 14 AWG (0.75mm ² ~2.5mm ²)
Type	Bullet Connector
Rated Current	10A to 15A (14 AWG)
Rated Voltage	
Insulation Resistance	
Contact Resistance	
Durability Repeated	
Ingress Protection	
Temperature Range	-25°C~85°C

Diagram



JT Motor



Feature

1. Easily connect for E-bike Motor with high rated current
2. General option for the electricity module.

Application

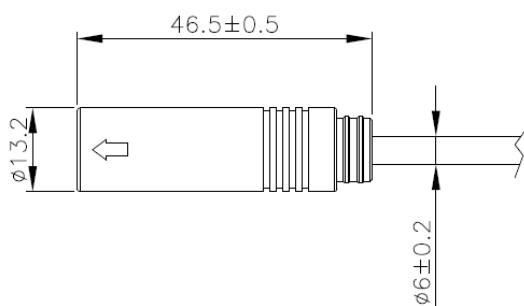
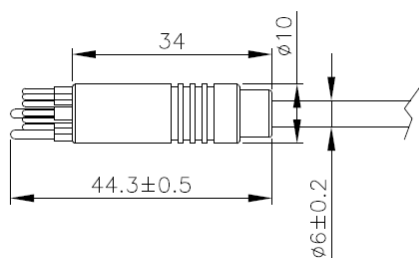
1. TRANSPORTATION (Ebike)
2. INDUSTRIAL

3.

Spec

Item Number	JT-Motor
Contacts	9 Pin
Type	Direct Plug
Rated Current	3 Pin 15A, 6 Pin 3A
Rated Voltage	250V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP66
Temperature Range	$-25^{\circ}C \sim 85^{\circ}C$

Diagram



JT SAE



Feature

1. Easily connect with neutral connectors.
2. General option for the electricity module.

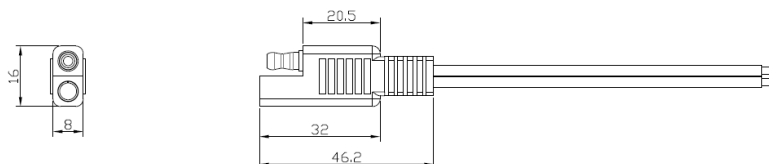
Application

1. TRANSPORTATION (Ebike)
2. INDUSTRIAL

Spec

Item Number	JT-SAE
Contacts	2 Pins
Dimension	See Diagram
Type	Normal
Rated Current	10A to 12A (16 AWG)
Rated Voltage	12V/ 24V
Insulation Resistance	$\geq 20M\Omega$
Contact Resistance	$\leq 10m\Omega$
Durability Repeated	Insert and withdraw up to 200 cycles
Ingress Protection	IP66
Temperature Range	-25°C~85°C

Diagram



Splitter



Overview

Jointek Splitter is a customized combination for all kinds of wires for LEV solution.

Feature

1. Light and small
2. Easy installation
3. Customized shape SR.
4. PCB included for the reliable connection

Application

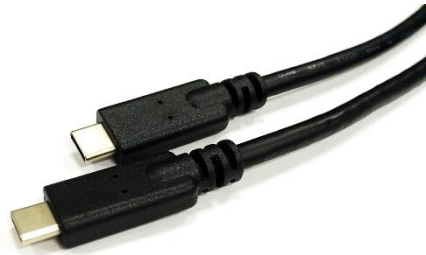
1. LEV
2. ILLUMINATION

Spec

Customized

USB Cable

USB C to USB C



Overview

Type C is the future of the USB technology providing multifunction, single cable solution for Data, Power, Audio and Video. The slim form factor supports the evolving design trends. The reversible design enables quick and easy connections no matter which way it is inserted. It supports scalable power delivery up to 100W and performance speed up to 10Gb/s.

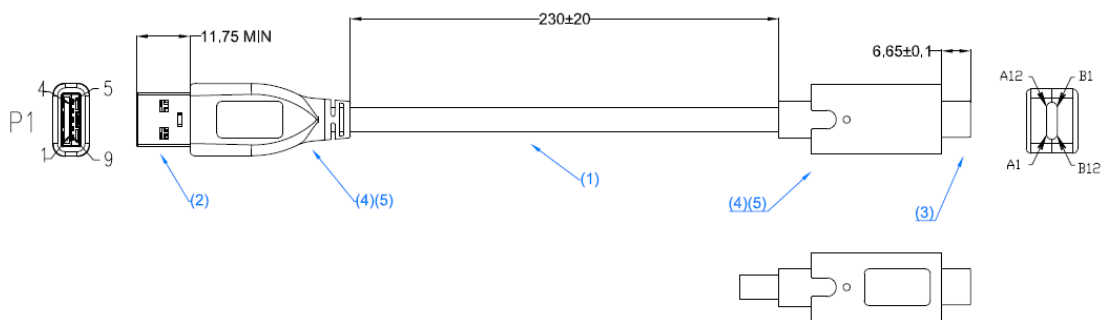
Feature

1. 10Gbps Super Speed Data Transmission
2. Alluminium-Alloy Shell
3. Small form factor
4. Reversible plug orientation
5. Scalable with various I/O connectors Up to 10,000 mating cycle

Application

1. Consumer
2. Automotive (Check with Join tek Sales agent for further details)
3. Industrial (Check with Join tek Sales agent for further details)
4. Medical (Check with Join tek Sales agent for further details)

Diagram



USB A to USB C



Overview

Type C is the future of the USB technology providing multifunction, single cable solution for Data, Power, Audio and Video. The slim form factor supports the evolving design trends. The reversible design enables quick and easy connections no matter which way it is inserted. It supports scalable power delivery up to 100W and performance speed up to 10Gb/s.

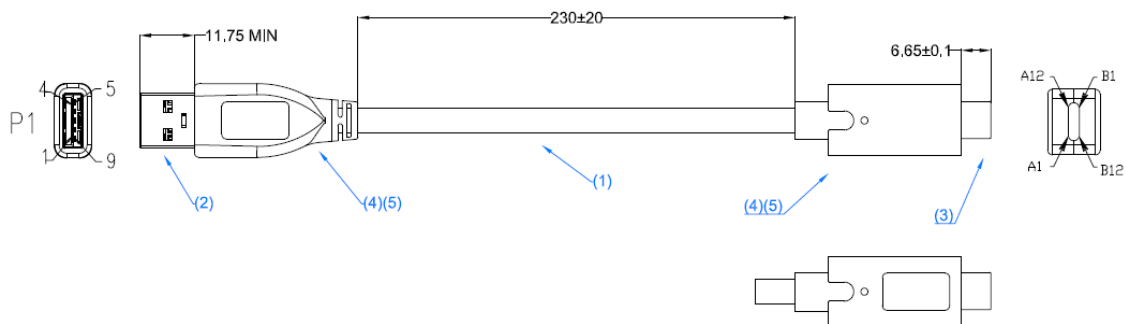
Feature

6. 10Gbps Super Speed Data Transmission
7. Alluminium-Alloy Shell
8. Small form factor
9. Reversible plug orientation
10. Scalable with various I/O connectors Up to 10,000 mating cycle

Application

5. Consumer
6. Automotive (Check with Join tek Sales agent for further details)
7. Industrial (Check with Join tek Sales agent for further details)
8. Medical (Check with Join tek Sales agent for further details)

Diagram



USB Connector

USB 3.1 C Type Female 24PIN

Overview

Join Tek provides wide range of USB solutions for different types. Strong and reliable for the SMT solutions.

Feature

1. Excellent Speed
2. Flammability Rating: UL 94V-0
3. Flag Type
4. RoHS Compliant
5. Strong and Durable: 1000 Cycles

Application

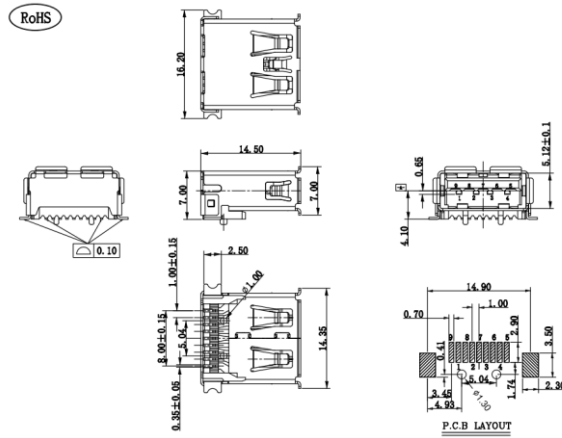
1. Automotive
2. Mobile Devices
3. Monitor Devices
4. Telecommunication
5. Medical
6. Consumer Market
7. LEV

8.

Spec

Product Name	USB 3.1 C Type Female 24PIN 180° Flag Type
Flammability Rating	94V-0
Durability Mandatory	1000 Cycle
Current Rating	1.25A for CC Pin
Voltage	30V Max
Insulation Resistance	100 Megahms Min
Mating Force	0.5 KGf to 2 KGf
Unmating Force	0.8 KGf to 2.0KGf
Temperature	-40°C to 85°C

Diagram



USB 3.1 A Type Female

Overview

Join Tek provides wide range of USB solutions for different types. Strong and reliable for the SMT solutions.

Feature

1. Excellent Speed upto 800 MBps
2. 90 degree SMT Type/Surface Mount
3. Flammability Rating: UL 94V-0
4. RoHS Compliant
5. Strong and Durable: 5000 Cycles

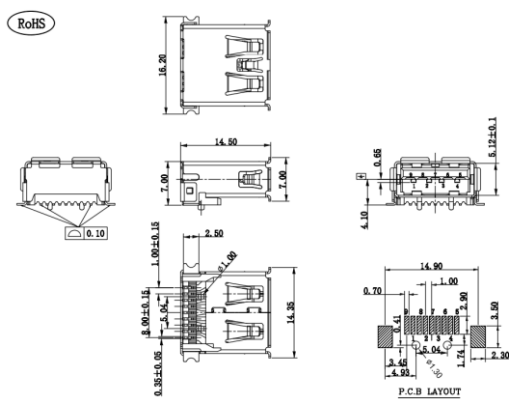
Application

1. Automotive
2. Mobile Devices
3. Monitor Devices
4. Telecommunication
5. Medical
6. Consumer Market
7. LEV

Spec

Product Name	USB 3.1 A Type Female 90° SMT
Material of Insulator	LCP UL 94V-0
Durability Mandatory	5000 Cycle
Current Rating	1.5A
Dielectric Withstanding Voltage	100V AC R.M.S
Insulation Resistance	100 Megahms Min
Mating Force	3.57 Kgf
Unmating Force	0.82 Kgf Min
Temperature	-40°C to 85°C

Diagram





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