KARSON TECHNOLOGY

KARSON TECHNOLOGY LIMITED

CABLES WHICH FIT YOU MOST

CATALOG

KARSON TECHNOLOGY LIMITED

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* Karson certifies that all products produced by Karson conforms to agreed standards, but will not be liable for all direct or indirect legal responsibilities whatsoever, Karson reserves the right to alter all Karson parts without notice.



CABLE ASSEMBLY

Introduction

公司簡介

About Us

Karson Technology was established in 1990 in Hong Kong. Over the years, we have been dedicated to designing, marketing and manufacturing various types of high-grade electronic components for our valuable customers. Our range includes terminal blocks, sub-lines in cable assemblies, plasma surge arresters, connectors and more.

Today, we focus our experience on manufacturing terminal blocks with a continuously growing capacity. We offer a wide range of services with contracted OEM and ODM manufacturers. We are aiming to extend our market boundaries all over the world through service and product quality to meet our customers' requirements.







Vision and Values

- To provide the most comprehensive services to meet the expectation of our valued customers
- To improve our product quality on a continuing basis within the dynamic and turbulent business environment, through continuous innovation and absolute quality control with every member involved in our team
- To ensure Total Quality Management (TQM) is applied to all functions and positions at all levels within the entire organisation, i.e. Quality must comes first under any circumstances
- To enhance values to our stakeholders; intend to keep our clients, suppliers, employees and parties related in high satisfaction

Testimonials

Karson have obtained VDE Certificates, UL Certificates, ISO 9001:2000 Certificates at an internationally recognised standard, and all our products are of RoHS Compliance.

Our Factory

By now, Karson has over 10 years manufacturing experience with modern facilities and advanced machineries to produce first-grade electronic components. Our factory is supported by our outstanding team of engineers and technicians dedicated to enhance production efficiency and effectiveness.

Having set up our own production plant at Wenzhou, we could now enjoy the benefit from a low production cost and have it shared with our customers. Moreover, our Sales Team and Management in Hong Kong have constantly interacted with the production line at Wenzhou, which have thus structured a more cohesive bonding and enhanced our development continuously.

有關我們

嘉盛科技有限公司成立於 1990 年。 過去, 嘉盛一直致力拓展開發電子零件的設計、銷售及生產, 務求向各尊貴客戶提供高質素的電子零件產品, 當中包括端子座、電線組裝、放電管及連接器等等。 此外, 隨著業務不斷增長, 嘉盛亦於90年初在溫州自設廠房, 主力生產端子座, 至今已有多達 300 名員工。

時至今日, 嘉盛已累積了生產端子座的豐富經驗, 且產量持續遞增。而其他電子產品, 則由合約加工廠生產, 並為信心保証。故此, 藉著透過採用以滿足客戶為大前題的產品及服務質素管理, 嘉盛希望能把業務充分地擴展到海外市場, 遍佈全世界。

展望與價值

- 提供最全面的服務以滿足尊貴客戶的需求
- 透過團隊不斷創新的精神及嚴密的品質監控, 持續於動蕩的營商環境中提升產品質素
- 確保公司每一個部門、架構及層次均實行全面品質管理 – 令 “品質” 成為每一個行動及每一件產品的基本要求
- 保持及增加客戶、供應商、員工及相關參與者的投放價值

認証

嘉盛科技有限公司已榮獲國際認可的 VDE 証書、UL 証書、ISO 証書; 所有產品均屬 RoHS 認証。

生產設備

至今, 嘉盛科技已累積了超過10年的廠房經驗, 以最先進的儀器及最新穎的設備生產出最優質的電子零件。加上工程及技術部團隊的配合及支持, 工廠的產量及效率均得以大大提升。

自於溫州設立廠房後, 我們現能與客戶共同享有以低成本作生產的利潤。 此外, 香港的管理層及業務部與溫州的生產部經常保持緊密聯系, 從而加強雙方的凝聚力及讓持續發展變得更為鞏固。

Cable Assemblies

FOR CUSTOMIZED APPLICATIONS

產品目錄

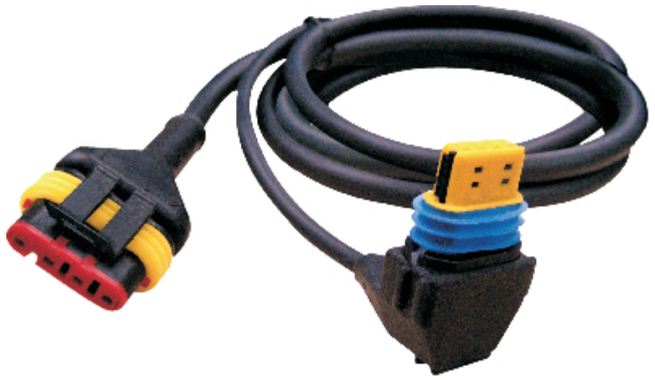
We provide cables exact to whatever your requirements

Karson Technology, we intelligently provide cable solutions. No matter what cables you ask for, we are capable to offer. That's why the most grueling cable applications in the world go for Karson cable assemblies.



Design and manufacture cables directly

One -stop service. From beginning to end, we totally handle the development of your cable assemblies. Because our in-house abilities cover everything you might need, we have no engineering limitation. We do our own tooling and prototyping, so flexible and speedy delivery. We manufacture our own cables. No matter how complicated and blur your requirements are, our intelligent engineering can convert it ti solid solutions. Customized to your specifications, we manufacture, test and ship the complete solution to get your job done. You should visit us sometime. Our large scale and comprehensive production plant located in China will fascinate you.



Our cables overwhelm the punishing operating conditions.

Cables are increasingly required to have performance and conquer the punishing operating condition. So, when engineering your cables, we ruminate every single demand that could be a possibility, including the ones you may not have thought of. We break through cable limitations with our persistence in:

- High- flex applications
- Resilience after repeating rolling, bending, stretching and pressing
- Combining diverse functions into a single cable
- Shaping into space constraints
- Innovating the unprecedented connectors and assemblies
- Resistance to environmental tortures like abrasion, extreme temperature, water intrusion, chemicals and vicious forces.

Rich experience in cable solutions:

Our team has rich experience in designing and manufacturing highly specialized cables, connectors and assemblies:

- Machine and motion control cables
- Integrated cables
- Multi-connector control cables
- High-flex waterproof cables
- Data communication cables
- Molded and pre-molded cable assemblies
- Flat cables
- Precision coaxial cables
- IC-embedded cables

Our cables are used to transmit power and data in diverse applications:

- Agricultural machines
- Automobiles
- Communication and monitoring devices
- Process controls
- Robotics
- TV and radio broadcasting
- Architectural lighting
- Aircraft operations
- Military vehicles
- Computers
- Surveillance systems



Karson To Free You Fix the Problem, extra benefits

Repeatedly, workers needed to plug and unplug wires one-by-one into/out of the control panel. They suffered the problems of time-consuming for termination connections; terminals being torn away from the wires; and susceptible to short-circuit for the twisted wires.

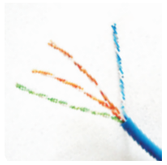
We solved the problems by inventing a tailor-made nylon housing. It embedded the two twisted-wire terminals with a current barrier at the middle. Developing new tooling, prototyping, manufacturing and testing, our exceptionally talented work groups highly skilled engineers smoothed away the problem.

With Karson, plugging and unplugging wires two-by-two saved half working time. The housing protected the wire and terminal from being torn away. Short circuit was prevented with use of a current barrier in the housing. Karson not only solved this customer's initial problems, but also polarized the two wires - all at minimal cost. The customer was so pleased with the results that we offered since she turned to us, and freed her by throwing us the other difficult cable assembly problems.

Introduction of Cable & Wire

Cable Types:


Coaxial Cable


Paired Cable


Flat Cable


Hook-up & Lead Wire


Multi-Conductor Cables

Shielding

- An important aspect in the cable's design.
- Contains electrical energy so that signal on the cable does not radiate and interfere with signals in other nearby cable and circuitry.
- Protect the signal from external interference.

- Different Kind of Cable's Shielding:
  - Foil Shield
  - Braid Shield
  - Drain Wire
  - Spiral or Serve Shield
  - Combination Fiol & Tinned Copper Braid
  - Foil Braid Combination

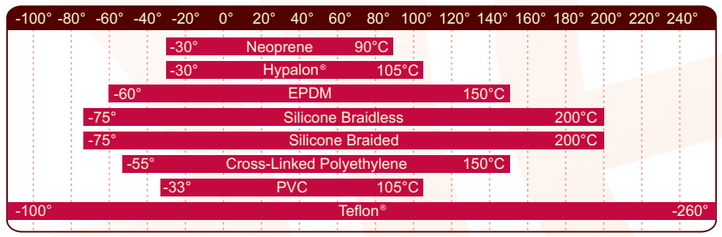


Spiral or Serve Shield

Drain Wire

Insulation

- Insulation separates conductors, electrically and physically, within a cable.
- Insulation Material:
  - Neoprene
  - Hypalon
  - EPDM
  - Silicone Braidless
  - Silicone Braided
  - Cross-Linked Polyethlene
  - PVC
  - Teflon



Main Components of a cable assembly

- Usually but not necessarily, cable assemblies contains two connectors and a cable which link them both
- However, they may require many more connectors or cables for a single cable assembly.
- Sometimes though they can be very simple.

Understand normal terms of cable harness cable harness (Wire assembly)

Molding
- In the event that the connector or cable does not exist. we are very capable of custom building and designing the part for you, based on your specifications, method of use and any specific requirements.
- Usually, this would be in a form of mold production for the specific connector and cable manufacturing.

Crimping
- Using termination equipment recommended by the connector manufacturer, the crimp section is deformed so it can be securely attached to a wire. Ideally, all the work that you do to crimp a terminal onto a wire occurs
- only in the Crimp Section.

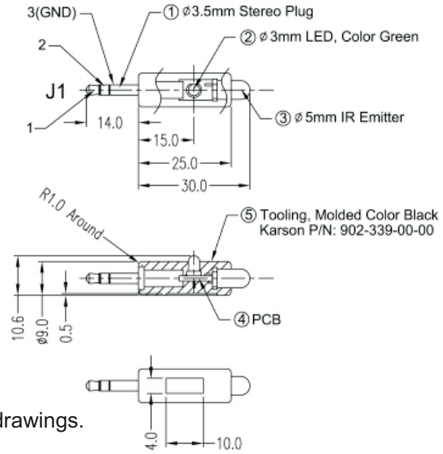
Workflow :

Overview : Audio-to-Infrared Plug

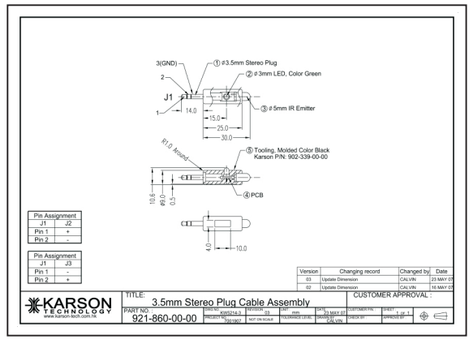
Step 1 : Receive Enquiry From Customer
Information provided by customer:

Step 2 : Information Collection
- Hand Sketch Drawings by Engineer
- Collect sample, engineer drawings, description etc.





Step 3 : Drawings by Engineer
- When Customer confirm the proposal, engineers will provide for drawings.



Step 4 : Confirmation by Customer
- If customer confirm drawing, purchasing department will solicit market price.

Step 5 : Making of Prototype
- Molded finished product



Step 6 : Project Approval
- Customer confirm prototype and provides all necessary approval documents
- Approval from customer.

Step 7 : Mass Production
- Production line in Wenzhou

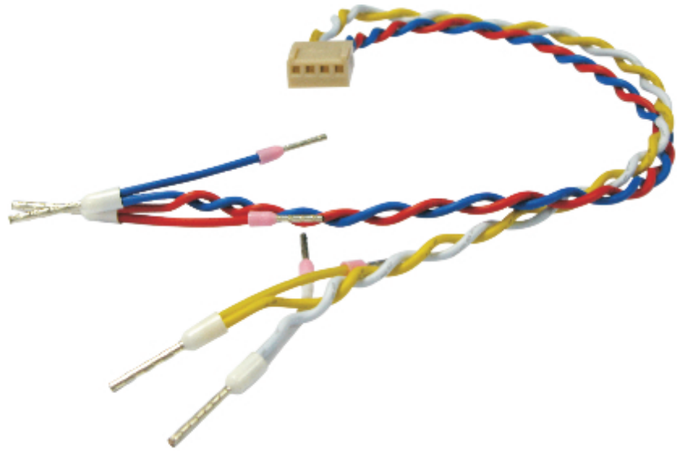
Step 8 : Delivery
- Finished products delivered by couriers.

Paired Cable

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4 Ways Cable Assembly

Cable insulation material: PVC
Connector(s): Custom
Cable color & size: Custom
Length & Pin Assignment: Custom

Hook-up & Lead Wire









Cable Assembly

Cable insulation material: PVC
Connector(s): Custom
Cable color & size: Custom
Length & Pin Assignment: Custom





















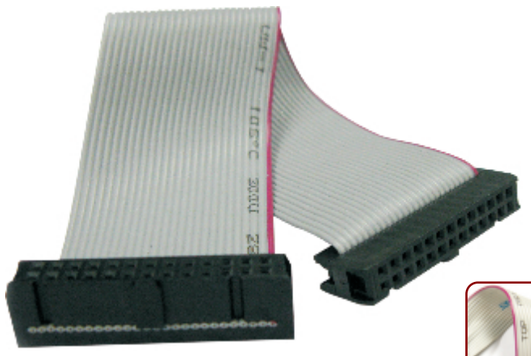






Flat Cable

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26 Ways Flat Cable Assembly

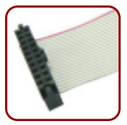
Flat cable pitch: 1.0 , 1.27mm
UL Approval: UL2561
Number of contact: Custom
Length & Pin Assignment: Custom











Multi-Conductor Cable

4 Ways Cable Assembly

Cable insulation material: PVC
Connector(s): Custom
Cable color & size: Custom
Length & Pin Assignment: Custom























Connector & Tooling

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Molding

In the event that the connector or cable does not exist. we are very capable of custom building and designing the part for you, based on your specifications, method of use and any specific requirements.
Usually, this would be in a form of mold production for the specific connector and cable manufacturing.

Example of Custom made connectors using injection molding

