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Germany

Metal Parts

Conductive Silicon Rubber

Conductive Fabric Over Foam





Company Profile

Founded in 2008, RTS Connect specializes in components and related products, providing both standard and customized solutions for industries including industrial control, automotive, and medical. Guided by a philosophy of rapid response, we collaborate closely with clients to deliver high-quality, consistent product design and manufacturing services, enabling the swift implementation of our clients' projects. Since our establishment, RTS Connect has built long-term, stable partnerships with numerous domestic and international customers.



Clients



FAW Fusheng



Gentherm



Lear



Bosch



Draxlmaier



Harman

Services

From the project initiation phase through to the end of the product lifecycle, RTS CONNECT will provide high-level expertise in the following areas:

- Integrated design / cost target design
- Technical consulting
- PPAP documentation and validation
- Quality management and assurance
- Mass production
- Logistics

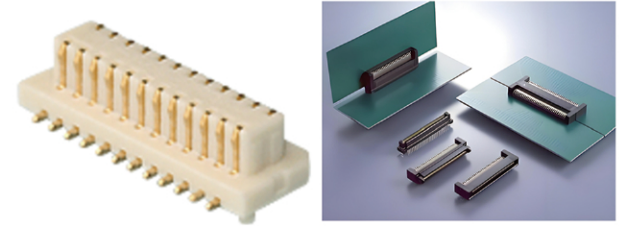
CequalsC is a product brand of RTS Connect. RTS Connect is the sole representative and exclusive sales channel for CequalsC products. To provide transparency and favorable terms to our corporate clients and consumers during the procurement process, we kindly request that you prioritize products registered under the RTS Connect trademark. We guarantee this will offer the best assurance for the security and integrity of your transactions.



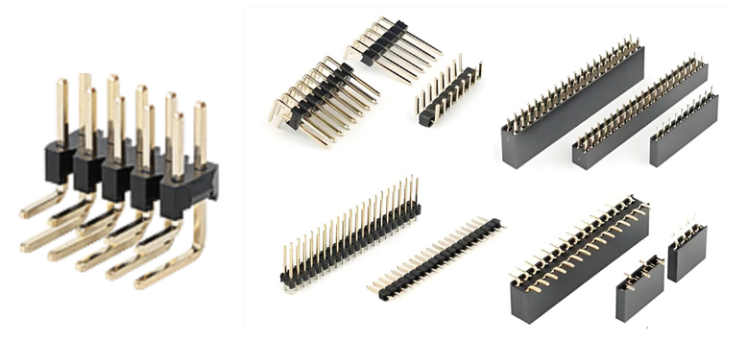
Product Scope

Connectors

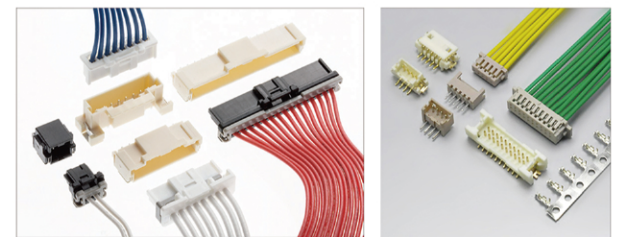
Connectors are used to link different electrical systems, ensuring the stable transmission of current and signals. RTS Connect offers a diverse range of connectors, including board-to-board, wire-to-board, wire-to-wire, and high-current types. We also provide professional customized solutions based on customer requirements, enabling us to efficiently address our clients' challenges in a short time frame.



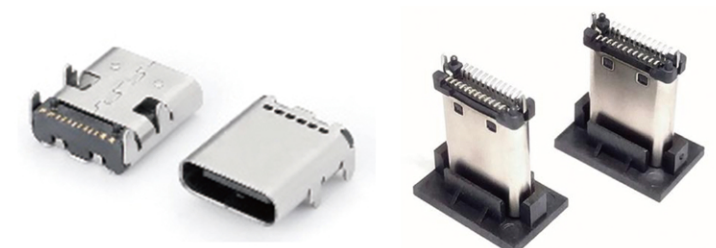
Board-to-Board Connectors



Pin Headers & Sockets



Board-to-Wire Connectors



I/O Connectors



Floating Connectors



Camera Module Solutions



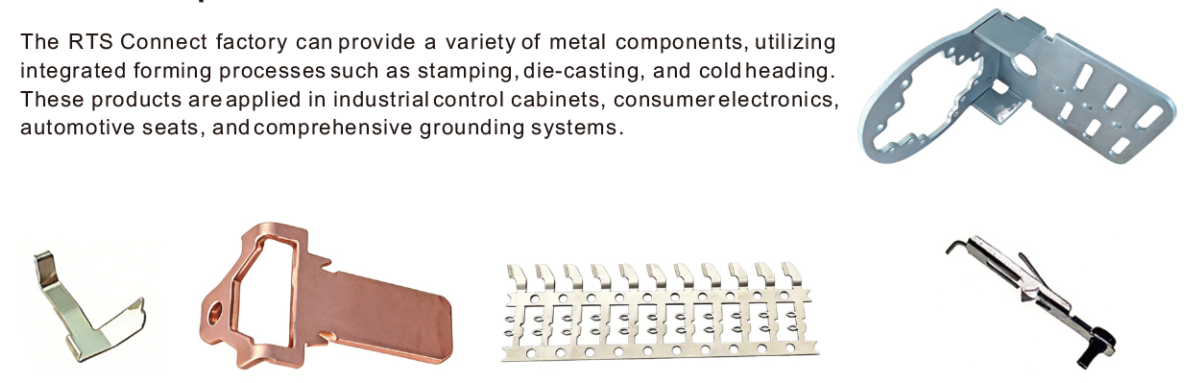
Automotive Ethernet Connectors



Customization Services

Metal Components

The RTS Connect factory can provide a variety of metal components, utilizing integrated forming processes such as stamping, die-casting, and cold heading. These products are applied in industrial control cabinets, consumer electronics, automotive seats, and comprehensive grounding systems.



Conductive Silicone Rubber

Conductive silicone rubber offers ideal shielding effectiveness and is suitable for a wide range of scenarios. It can serve both as EMI shielding and environmental sealing. We particularly recommend products with enhanced corrosion resistance and flame-retardant properties. Using our proprietary conductive filler technology, we precisely control the composition, size, and structure of conductive particles to ensure their uniform distribution in the resin binder, resulting in consistent electrical and physical properties. We offer extruded parts, co-extruded parts, sheets, moldings, molded components (including molded O-rings/D-rings), and on-site fabricated parts. We provide a series of products with standard specifications and can also conduct custom production according to customer drawings. Our extensive product engineering team is always ready to assist with your inquiries.



Conductive Fabric Gaskets & Conductive Foam

Conductive fabric gaskets are a type of lining material that provides electromagnetic shielding. The inner core is typically made of polyurethane foam or thermoplastic rubber, while the outer layer is covered with various metalized fabrics. They are usually installed using pressure-sensitive adhesive on both sides.

- At a frequency range of 20MHz-10GHz, the shielding effectiveness exceeds 80dB (MIL-G-83528)
- Low surface resistance (<0.05Ω/sq) ensures excellent electrical conductivity
- Excellent wear resistance; frequent use does not affect the actual shielding performance. Operating temperature: -35°C to 75°C
- Halogen-free and flame-retardant, meeting UL94-V0 and UL94HB-HF1 standards through UL certification



Metal Parts

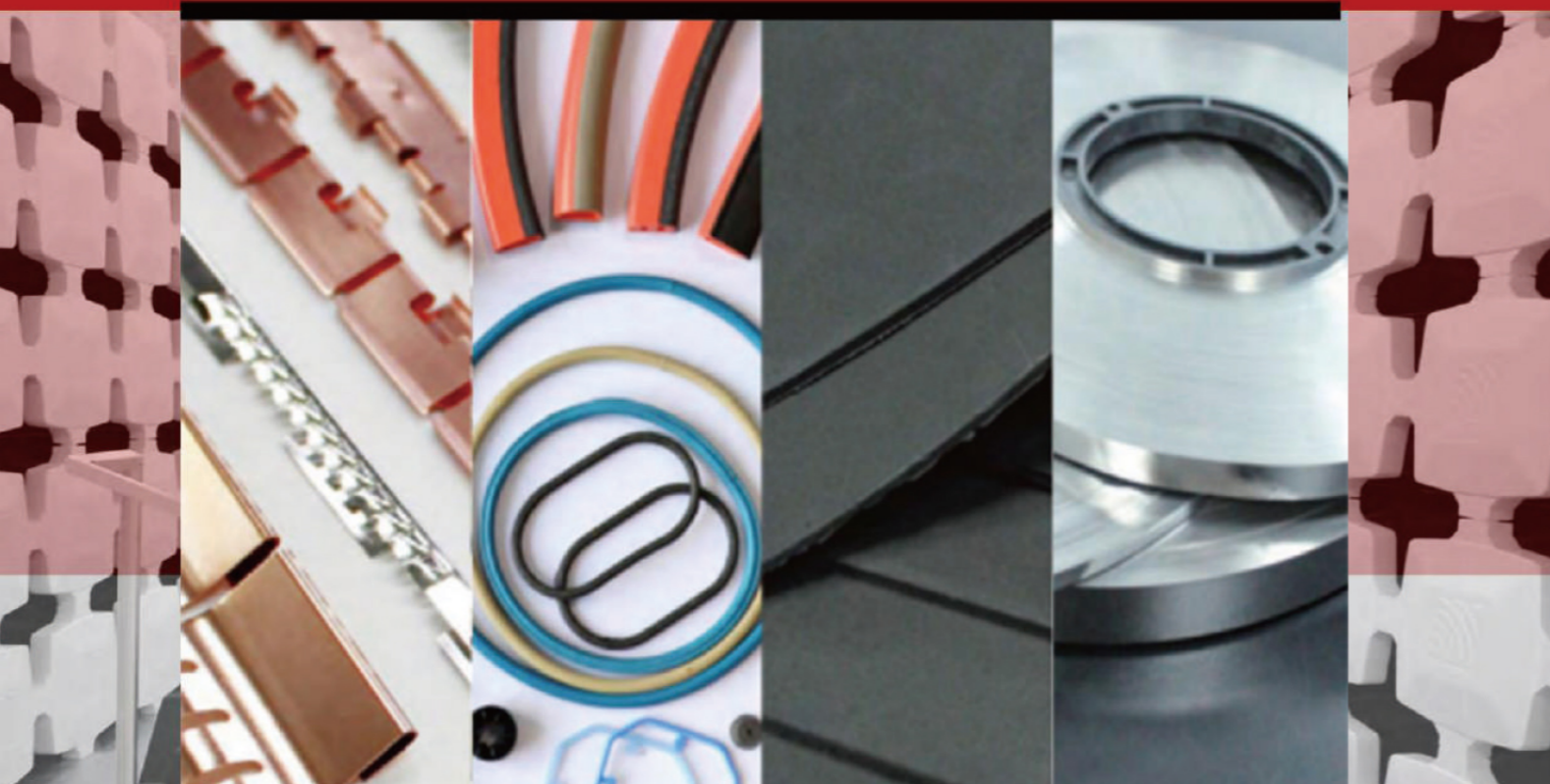
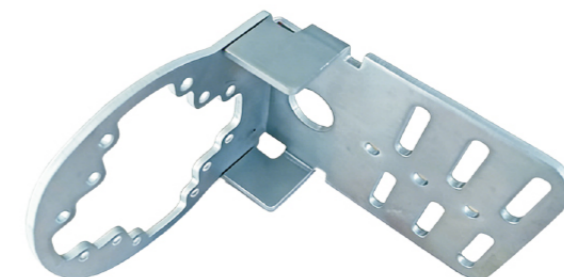
Product material: Aluminum
Forming process: Single stamping



Product material: Aluminum
Forming process: Single stamping



Product material: Aluminum
Forming process: Single stamping



Product material: Aluminum
Forming process: Single stamping



Product material: Stainless steel
Forming process: Continuous progressive stamping tooling



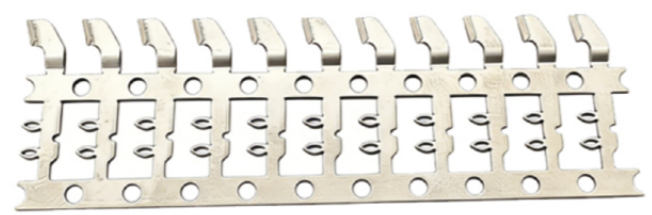
Product material: Copper ally



Product material: Iron material
Forming process: Continuous charge



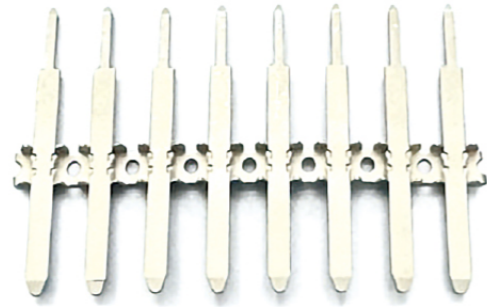
Product material: Copper
Forming process: Continuous progressive stamping tooling



Product material: Stainless steel
Electroplating: Gold plating
Forming process: Continuous charge



Product material: Copper alloy
 Electroplating: Tin plating
 PIN specification: Square PIN, 0.6* 1.5*18.9mm
 PIN pitch: 4.0mm
 Forming process: Extrusion forming



Product material: Copper alloy
 Electroplating: Tin plating
 PIN specification: Square PIN, 0.8* 2.75*42.9mm/fisheye
 PIN pitch: 6mm
 Forming process: Stamping forming



Product material: Brass
 Forming process: Continuous charge



Product material: Copper alloy
 Electroplating: Tin plating
 PIN specification: Square PIN, 0.8* 2.75*42.9mm/fisheye
 PIN pitch: 3mm
 Forming process: Stamping forming



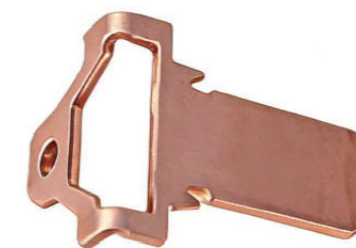
Product material: Red copper
 Forming process: Cold heading / turning



Product material: Copper alloy
 Electroplating: Silvering
 Forming process: Cold heading / turning/CNC



Product material: Brass
 Forming process: Continuous charge



Product material: Brass
Forming process: Continuous charge



Product material: Brass
Forming process: Cold heading / turning



Product material: Brass
Electroplating: Galvanize
Forming process: Cold heading / turning



Product material: Brass
Forming process: Continuous charge



Product material: Iron material
Electroplating: Galvanize
Forming process: Stamping



Product material: Iron material
Forming process: Continuous charge



Conductive Silicon Rubber

Product material: Iron material
Forming process: Cold heading



Product material: Iron material
Forming process: Stamping/assembly



Product material: Iron material
Forming process: Turning





In addition to the dimensions and shapes of electronic component casings and their connection parts, the following design elements usually need to be taken into account during the application design of conductive silicone rubber:

1. Shielding Effectiveness

In the design process, consideration should be given to the strength and frequency of the interference source, the dominance of electric or magnetic fields, the system's power and signal attenuation requirements, as well as certain properties and thickness requirements of the material.

2. Closing Force

Solid conductive silicone rubber can withstand relatively high closing force and environmental pressure, and meet the requirements of repeated opening and closing. It adapts to the applied pressure by changing its shape rather than its volume, thereby achieving a sealing effect. Therefore, during the design, it is necessary to consider the potential space required for the shape change of solid conductive silicone rubber under heating or pressure conditions. The required closing force varies depending on the sealing requirements. For instance, only 6 psi of force is needed when electromagnetic sealing alone is required; if waterproofing is also required alongside electromagnetic sealing, a pressure of over 8 psi must be applied to meet the requirements. In addition, if a lower closing force is needed, extruded conductive rubber strips with a hollow cross-section (such as hollow O-shaped or hollow D-shaped profiles) can be adopted, which can save a significant amount of raw materials.

3. Volume Fill Ratio

For most static sealing applications, it is essential to calculate the sealing volume and the space that the sealing strip will occupy to determine whether the latter can accommodate the sealing ring. Thus, the design of the volume fill ratio is particularly important. Both over-filling and under-filling may lead to sealing failure.



The required fill ratio should be determined based on application requirements. If only EMI sealing is needed, a fill ratio between 70%-85% is sufficient; if both EMI sealing and waterproofing are required, the fill ratio should be between 95%-98% with adequate closing force to meet the requirements.

4. Compression Rate

The compression rate provides designers with a qualitative comparison of the deformation capacity of conductive silicone rubber strips with different cross-sectional shapes. It is a function of the hardness and cross-sectional shape of the conductive silicone rubber material. The compression rate ranges for conductive silicone rubber strips of different shapes are as follows:

Cross-sectional shape	Compression amount%
Rectangular rubber strip	5~10
Solid O type	20~25
Solid D type	15~20
Hollow O type	20~50
Hollow D type	25~50
Hollow P type	25~50
Interference filling	15~25

Note: Interference fit filling means that the width of the conductive silicone rubber strip is slightly larger than the width of the groove to provide support, eliminating the need for adhesive to fix the strip.

Generally, the compression rate of conductive silicone rubber strips should not be less than 10%.

However, when calculating this value, the impact of uneven contact surfaces on the height of the sealing strip and the wall thickness of hollow cross-sections must be considered.

5. Electrochemical Compatibility

In the design of sealing strips, appropriate attention must also be paid to the electrochemical compatibility between the strip and the mating surface. Three conditions are indispensable for electrochemical corrosion to occur:

- Two different conductive materials are in contact or connected by a conductor;
- A conductive environment exists between them, such as electrolyte solutions, salt spray, water vapor, etc.;
- There is a large electromotive force difference between the two materials. Electrochemical corrosion will only occur when these three conditions are met simultaneously, affecting sealing performance. In addition, the permeability of polymer materials also affects electrochemical corrosion. By restricting the immersion of electrolyte solutions into the conductive silicone rubber, electrochemical corrosion is prevented.

6. Others

• During the assembly process, avoid stretching the conductive silicone rubber strip by more than 5%. Excessive stretching will prevent the conductive particles inside the rubber from forming sufficient conductive paths, which will affect electrical conductivity and thus the shielding effectiveness of the strip.

• If shear force exists, do not use conductive silicone rubber strips with an O-shaped cross-section; instead, select D-shaped, P-shaped, or C-shaped cross-sections.

• The compression set of the conductive silicone rubber strip used should be as small as possible, generally controlled within 30%.

Environmental Factors for Conductive Silicone Rubber

The appropriate selection of EMI shielding materials depends on the overall environment in which the shielding material is located. Material selection should be analyzed based on the following main environmental conditions:

- Temperature
- Aging / Service Life
- Pressure / Vacuum Degree
- Liquid Compatibility
- Electrochemistry

Installation Guidelines for Conductive Silicone Rubber

1. Conductive silicone rubber must be subjected to a certain amount of compression force for good electrical conductivity, so the structural design must ensure appropriate pressure without over-pressurization.
2. Conductive silicone rubber strips are generally installed in grooves. The size of the groove should ensure that the conductive silicone rubber is not over-pressurized but has appropriate pressure, keeping the height compression rate of the conductive silicone rubber within the specified range.
3. Both D-shaped and rectangular rubber strips are available with or without adhesive backing. The former is installed using the backing adhesive, while the latter is installed using the groove method.

Size Range of CequalSC Silicone Rubber Products

Extruded Products		Molded Products	
Conductive Filler	Ni/C, Ag/Glass, Ag/Al	Conductive Filler	Ni/C, Ag/Glass, Ag/Al, Ag/Cu
Product Diameter (mm)	Conductive: 0.7-12; Non-conductive: 0.5-20	Product Thickness (mm)	Conductive: 0.3-20; Non-conductive: 0.1-25
Minimum Thickness (mm)	Conductive: 0.2; Non-conductive: 0.1	Maximum Size (mm)	500*500

Characteristics of Extruded Products

Performance Parameters of Extruded Conductive Silicone Rubber Materials

Item	Test Standard	AS5G-70-V0	AS3T-50-V0	AS1B-65-HB	AS2T-60-HB	AS8D-40-V1
Conductive Particles	-	Nickel Carbon	Silver Copper	Silver Aluminum	Silver Glass	Carbon Black
Color	-	Dark Gray	Yellowish Brown	Blue	Yellowish Brown	Black
Electrical Properties	-	-	-	-	-	-
Volume Resistivity (ohm-cm)	ENG-WI-550RevA2	0.1	0.002	0.004	0.005	5.0
Shielding Effectiveness (dB)	MIL-DTL-83528E	> 70	> 80	> 70	> 70	> 30
Stability of Electrical Properties	-	-	-	-	-	-
Thermal Aging (100°C, 168H) (ohm-cm)	ENG-WI-550RevA2	0.2	0.005	0.006	0.006	12
Mechanical Properties	-	-	-	-	-	-
Hardness (Shore A)	ASTM D2240	70±5	50±5	65±5	60±5	45±5
Density (g/cm ³)	ASTM D792	1.9±0.1	3.5±0.1	2.0±0.1	1.9±0.1	1.2±0.1
Tensile Strength (MPa)	ASTM D412	1.6	1.7	1.3	1.3	5.0
Elongation at Break (%)	ASTM D412	110	220	350	450	400
Tear Strength (KN/m)	ASTM D624	8.0	11.0	8.5	4.8	18
Compression Set (100°C, 24H, 30% Compression) (%)	ASTM D395	≤ 20	≤ 20	≤ 20	≤ 35	≤ 25
Environmental Standards	-	-	-	-	-	-
Operating Temperature (°C)	-	-40~160	-40~160	-40~160	-40~160	-40~160
RoHS Compliance	RoHS 2.0	Yes	Yes	Yes	Yes	Yes
UL 94 Flame Retardancy	UL 94	V0	V0	V0	V0	V1

- Excellent electromagnetic shielding effect and low volume resistivity
- Wide operating temperature range
- Long service life and corrosion resistance
- Continuous extrusion production, available in rolls or jointed rings
- Ozone and UV resistance, with long service life and corrosion resistance
- Applied in wireless communication, RF modules, medical devices, electronic and electrical shielding and sealing, etc.



Extruded Conductive Silicone Rubber Products (Shielding Strips/Rings)



Extruded non-conductive Products (Pure waterproof Strips/Rings)

Characteristics of Co-extruded Two-color Conductive Products

Performance Parameters of Co-extruded Materials

Main Performance	Reference Standard	428C (Conductive Adhesive)	AS5G (Conductive Adhesive)	428AB (Non-conductive Adhesive)	629AB (Non-conductive Adhesive)
Color	Visual Inspection	Silver White	Gray	Orange	Purple
Filler Material	-	High-grade Silver Aluminum Powder	Nickel Carbon Powder	-	-
Density (g/cm ³)	ASTM D792	2.5±0.1	2.0±0.1	1.1±0.1	1.4±0.1
Tensile Strength (MPa)	ASTM D412	2.2	2.4	4.0	4.5
Elongation at Break (%)	ASTM D412	200	300	340	200
Tear Strength (KN/m)	ASTM D642	6.5	14.5	14	25
Compression Set (100°C, 24H, 30% Compression) (%)	ASTM D395	< 30	< 30	< 15	< 25
Operating Temperature Range (°C)	-	-40 ~ 160	-40 ~ 160	-40 ~ 160	-35 ~ 160

- Low volume resistivity and excellent electromagnetic shielding effect
- The non-conductive part has excellent compression set and good moisture sealing performance
- Long service life and corrosion resistance
- Good tensile strength and elongation at break
- Simultaneously meets high waterproof rating and good electromagnetic shielding effectiveness
- Applied in aerospace, communication, medical and other fields



Aging Performance Test of Co-extruded Two-color Conductive Products

Compression Set and Resistance Test Data of RSS-428C-428AB-02 Product Before and After Thermal Aging

Item	Condition	1	2	3	4	5	AVE	
Compression Set (%)	100°C, 168H; 30% Compression	4.64	5.64	6.14	5.64	5.63	5.54	
Surface Resistance (Ω/inch)-		Before	0.19	0.16	0.15	0.16	0.12	0.16
		After	0.44	0.46	0.28	0.32	0.24	0.35

IPX7 Waterproof Test of RSS-428C-428AB-01 Product

Item	Test Data (After Test)	Requirement	Result
IPX7 Waterproof Test	No Water Ingress	No Water Ingress	Pass
Air Tightness	0.137kPa	≤ 0.45 kPa	Pass
Surface Resistance (Ω-inch)	0.68, 0.82, 0.89	Average ≤ 8, Maximum ≤ 20	Pass
Compression Set (%)	15.24, 14.29, 15.24	< 20%	Pass

UL Aging Test of RSS-428C-428AB-01 Product

Item	Item	428C Test Data	428AB Test Data	Requirement	Test Standard
Tensile Strength (Comparison Value) (%)	70°C, 168H	88.1	88.8	Not Less Than 75%	UL 60950-22
		Elongation at Break (Comparison Value) (%)	86.3	88.2	
Compression Set (Comparison Value) (%)	Room Temperature	95.2	98.7	Not Less Than 50%	
	High Temperature (70°C, 120H)	93.7	97.8		
	Low Temperature (-30°C, 24H)	91.7	97.0		

Note: Comparison Value = (Value After Aging / Value Before Aging) * 100%

UV Test of RSS-428C-428AB-01 Product

Material	Gray Scale Rating
428C	4~5
428AB	4~5

Mildew Resistance Test of RSS-428C-428AB-01 Product

Mildew Grade	Mildew Degree	Test Standard
Grade 0	No Obvious Mildew Found Under 50x Magnification	GB/T 2423.16-2008

Ozone Resistance Test of RSS-428C-428AB-01 Product

Material	Performance	Test Standard
428C	No Cracks	ASTM D1149-07
428AB	No Cracks	ASTM D1149-07

Characteristics of Molded Products

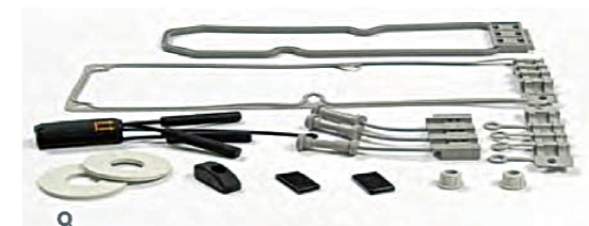
Performance Parameters of Molded Pure Conductive Silicone Rubber Materials

Item	Test Standard	MS5G-55-HB	MS5G-60-V0	MS5G-70-V0	MS1B-65-HB	MS3T-50-V0	MS8D-60-V0
Base Material	-	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber
Conductive Particles	-	Nickel Carbon	Nickel Carbon	Nickel Carbon	Silver Aluminum	Silver Copper	Carbon Black
Color	-	Dark Gray	Dark Gray	Black	Blue	Yellowish Brown	Black
Electrical Properties	-	-	-	-	-	-	-
Volume Resistivity (ohm-cm)	ENG-WI-550RevA2	0.1	0.08	0.1	0.004	0.002	5.5
Shielding Effectiveness (dB)	MIL-DTL-83528E	> 70	> 70	> 70	> 70	> 80	> 30
Stability of Electrical Properties	-	-	-	-	-	-	-
Thermal Aging (100°C, 168H) (ohm-cm)	ENG-WI-550RevA2	0.2	0.2	0.2	0.006	0.004	6.0
Mechanical Properties	-	-	-	-	-	-	-
Hardness (Shore A)	ASTM D2240	55±5	60±5	70±5	65±5	50±5	60±5
Density (g/cm³)	ASTM D792	1.9±0.1	1.9±0.1	2.0±0.1	1.95±0.1	3.5±0.1	1.2±0.1
Tensile Strength (MPa)	ASTM D412	1.2	1.8	1.8	1.3	1.7	5.0
Elongation at Break (%)	ASTM D412	200	120	120	350	220	300
Tear Strength (KN/m)	ASTM D624	8.0	9.5	9.5	8.5	11.0	14.0
Compression Set (100°C, 24H, 30% Compression) (%)	ASTM D395	≤ 20	≤ 20	≤ 20	≤ 20	≤ 20	≤ 25
Environmental Standards	-	-	-	-	-	-	-
Operating Temperature (°C)	-	-40~160	-40~160	-40~160	-40~160	-40~160	-40~150
RoHS Compliance	-	Yes	Yes	Yes	Yes	Yes	Yes
UL 94 Flame Retardancy	-	HB	V0	V0	HB	V0	V0

- Excellent electromagnetic shielding effect and low volume resistivity
- Long service life and corrosion resistance
- High tensile strength and elongation at break
- Vulcanized and molded using heated and pressurized molds
- Can produce complex structural electronic components
- Widely used in aerospace, communication, medical and other fields



Molded Pure Conductive Silicone Rubber Products



Molded Non-conductive Products (Maintenance Window Sealing Blocks/Plugs/Dust Plugs)



Composite Molded Products (Sealing Blocks, Seals)

Using the molding method, conductive materials and ordinary silicone rubber are co-molded to produce products with shielding effectiveness and sealing performance. Or ordinary silicone rubber and metal parts are co-molded to produce products with sealing properties.

Characteristics of Molded PPerformance Parameters of Liquid Conductive Silicone Rubber Materials

Item	Test Standard	FS5G-70-V0	FS5G-50-V0	FS4T-60-V0	FS3T-50-V0
Material Form		2 part	2 part	2 part	1 part
Mixing Ratio (Mass Ratio)		A:B=1:1	A:B=1:1	A:B=1:1	-
Crosslinking Mechanism		Addition Type	Addition Type	Addition Type	Addition Type
Crosslinking Temperature		LTV	LTV	LTV	LTV
Conductive Filler		Ni/C	Ni/C	Ni/C	Ag/Ni
Physical Properties					
Density (g/cm ³)	ASTM D792	2.0±0.2	2.0±0.2	2.0±0.2	3.8±0.2
Hardness (Shore A)	ASTM D2240	70±5	50±5	50±5	60±5
Compression Set (%)	QA-WI-1048	25	25	25	25
Tensile Strength (MPa)	ASTM D412	1.5	1.2	1.2	1.2
Elongation at Break (%)	ASTM D412	100	150	150	150
Tear Strength (KN/m)	ASTM D624	8	8	8	8
Bonding Strength (N/cm ²)	QA-WI-1049	150	150	150	150
Operating Temperature (°C)		-50~125	-50~125	-50~125	-50~125
Electrical Properties and Stability					
Surface Resistance (Ω/inch)	QA-WI-1052	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Volume Resistivity (Ω-cm)	MIL-DTL-83528E	0.05	0.05	0.05	0.004
100°C, 168H (Ω-cm)	MIL-DTL-83528E	0.06	0.08	0.08	0.008
85°C/85% RH, 168H (Ω-cm)	MIL-DTL-83528E	0.08	0.10	0.10	0.006
Salt Spray, 168H (Ω-cm)	MIL-DTL-83528E	0.06	0.06	0.06	0.008
Crosslinking Conditions		Low-temperature crosslinking; commonly 150°C*40min; heating can shorten crosslinking time, preferably not exceeding 180°C	100°C, 40~60min	Low-temperature crosslinking; commonly 150°C*40min; heating can shorten crosslinking time, preferably not exceeding 180°C	
Storage Conditions		-25°C~5°C			
Shelf Life					
Unopened Package (Unmixed)		6 Months	6 Months	6 Months	6 Months
Opened Package (Mixed)		7 Days	7 Days	7 Days	7 Days

Note: If the shelf life of the unopened package expires, it can still be used normally after passing the test. The environment has a significant impact on the crosslinking cycle of such adhesives, and the appropriate storage and shelf life can be determined based on actual experiments

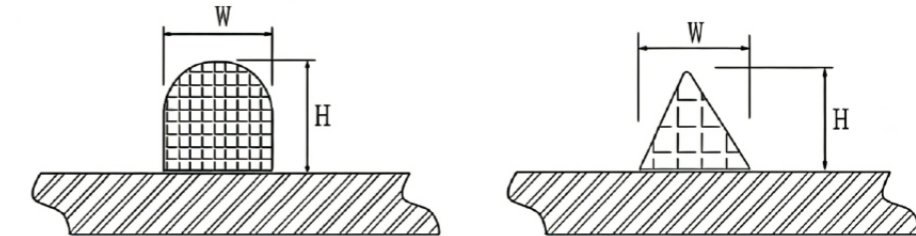
Form-in-Place (FIP) Liquid Conductive Silicone Rubber

CequalsC's FS× × series materials are liquid conductive silicone rubbers suitable for programmable CNC automatic dispensing equipment. They can be crosslinked into elastomers at room temperature or slightly heated through contact with air or mixing with another component.

Form-in-place involves using programmable CNC dispensing equipment to accurately dispense liquid conductive silicone rubber onto the substrate, which then forms an integrated structure with the substrate through the crosslinking process. The repeatable programmable design ensures product size consistency and mass production feasibility.

Applications

Form-in-place liquid conductive silicone rubber is suitable for metal or plated casings or electronic components with partitioning requirements in mobile phones, PCs, telecommunications infrastructure equipment, automobiles, etc. The cross-sectional shapes of the in-situ formed products are D-shaped or triangular, as shown below.



Cross-sectional Shape	Characteristics
D-shaped	① $H/W < 1$ ② Compared with triangular shapes of the same height (H), it requires greater compression force for the same compression rate. ③ Compared with triangular shapes of the same height (H), it uses more material.
Triangular	① Generally, $H/W \geq 1$ ② Compared with D-shaped shapes of the same height (H), it requires less compression force for the same compression rate. ③ Compared with D-shaped shapes of the same height (H), it uses less material.

- No high-temperature heating is required for material crosslinking. It can be crosslinked into an elastomer through contact with room-temperature air or slight heating, saving energy and equipment investment.
- High shielding effectiveness; up to 100dB at 10GHz.
- Automated mass production. Material preparation, product molding, and crosslinking can all be automated for continuous production.
- Short sampling cycle. No molds are needed; construction and molding can be carried out only after positioning.
- On-site materials are integrally formed with the substrate, eliminating the need for assembly operations.
- FRD's FS× × series materials have excellent adhesion performance on the surface of substrates of various materials.
- The equipment occupies a small area, saving space.



Shielding Gaskets with SMT Function

Shielding gaskets with SMT function are automatically mounted on PCB boards through the SMT method, which can solve EMI, grounding, and electrical connection problems of PCB boards, and also have shock absorption and buffering effects.

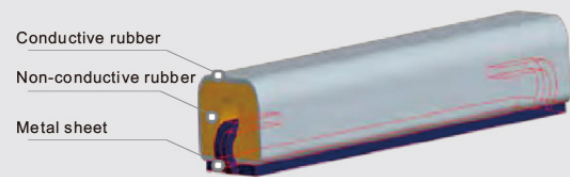
Characteristics:

- Low resistance, suitable for shielding, grounding, and electrical connection;
- Excellent resilience, providing shock absorption and buffering;
- Weldability, ensuring good electrical contact with the PCB board;
- Tape and reel packaging, enabling mass automatic installation with high production efficiency.

Structure:

Composed of three parts, as shown in the figure:

- The bottom blue layer is a weldable metal sheet;
- The outer gray layer is conductive rubber;
- The middle golden layer is non-conductive rubber.

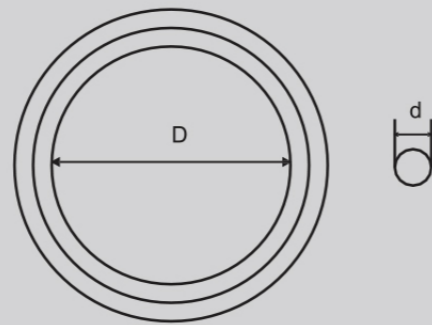


O-rings

Ultra-high conductive silicone rubber products meet the US military standard MIL-DTL-83528 and are widely used in military electronic equipment such as aerospace, ships, etc., which can achieve both environmental sealing and electromagnetic sealing.

Particularly Suitable for:

- Medium and small military electronic chassis and microwave waveguide systems;
- Electronic products (such as computer chassis, mobile phones), telecommunications, high-frequency control equipment, etc.;
- Military shelters and military electronic equipment for aerospace, aviation, ships, etc.;
- Electronic equipment in harsh environments such as power and railways.

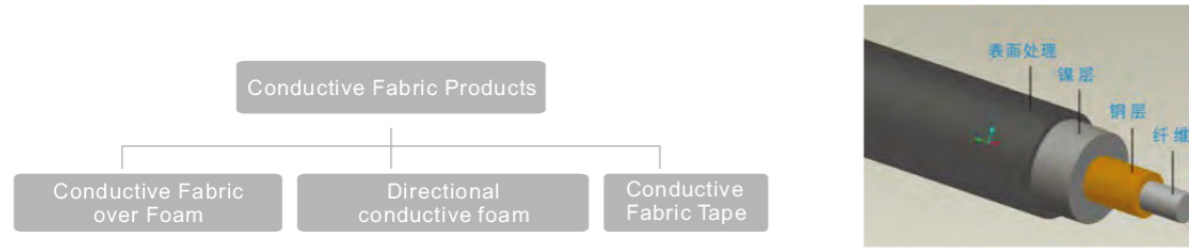


Conductive Fabric Over Foam





CequalsC conductive fabric project: product composition and structure diagram



Our Advantages

- First-class engineering team with rich experience in both product design and manufacturing capability;
- Leading R&D capability, we have developed halogen-free flame-retardant hot melt adhesive with invention patent, flame retardant grade up to V0 level, which is the first of its kind in China;
- Rapid response capability, 24-hour sample delivery period, 1-week production cycle;
- Strong production capacity, 24 fully automated production lines, monthly production capacity of 7 million meters.



Fabric surface catalytic



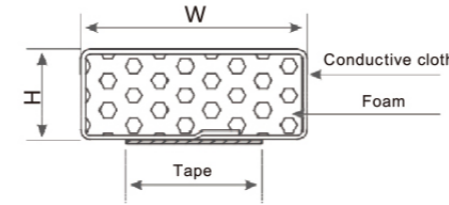
Fabric plating



Coating Auto Line for
Conductive FOF

Compositions & Advantages of RTS Conductive Fabric projects

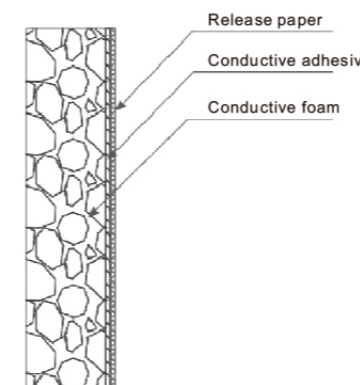
Fabric over Foam (FoF)



Conductive Fabric over Foam, i.e. Conductive Fabric Wrapped Foam Liner (CFWL), is a fabric-based component with conductive, elastic properties and a certain level of anti-electromagnetic interference function used to prevent the passage of electromagnetic waves in electronic equipment.

To provide more useful information to our customers and design engineers, we would like to introduce the product characteristics, types, materials, standard sizes and configurations of conductive FoF. If this does not meet your needs, please contact our engineers and we will design and manufacture the product according to your requirements.

Conductive Foam (CF)



Directional conductive foam is a new shielding material, it is made of PU foam through electroplating and X, Y, Z three-axis conductive conductive material, shielding efficiency is higher than traditional conductive foam. Can meet the computer, communication equipment and other growing shielding performance requirements. Omni-directional conductive foam is very suitable for equipment, input and output (I/O) interface shielding, but also for the shielding of the interface.

Directional conductive foam structure can be divided into four layers, the first layer is polyester mesh, the second layer is PU foam, the third layer is polyester mesh, the last layer of pressure-sensitive adhesive.

Advantages of FoF

- Good conductivity, high shielding efficiency ($\geq 80\text{dB}$ 30MHz ~ 18GHz) (Figure 1)
 - Good oxidation resistance, anti-corrosion properties
 - Good abrasion resistance, very high reliability (≥ 1 million times)
 - Soft, suitable for applications that do not provide a large amount of pressure
 - Low price, ideal shielding material
 - Simple and versatile installation, suitable for sticking and slotting
 - ROHS, Halogen Free, REACH, UL94-V0 compliant
- This shows FoF is a cost-effective EMI shielding material.

Conductive Fabric / Foam / Pressure-sensitive adhesive tape

1. Conductive Fabric

Types of Conductive Fabric	Plating	Resistivity (ASTM F390)	Application	Advantage
Checked Fabric	Ni/Cu	≤ 0.05 Ohms/inch ²	I/O or shaped pads	Complex shapes, flame retardant, shear resistant
Taffeta	Ni/Cu	≤ 0.05 Ohms/inch ²	I/O or shaped pads	Complex Shape, Flame Retardant
Woven mesh	Ni/Cu	≤ 0.05 Ohms/inch ²	I/O Pad	Low Cost, Flame Retardant
Nonwoven	Ni/Cu	≤ 0.05 Ohms/inch ²	I/O Pad	Low Cost, Flame Retardant

2. Foam

Foam Type	Compression set (ASTM D3574)	Compression Deflection (ASTM D3574)	Application	Advantages
Polyurethane foam	≤ 20%	Black	I/O or shaped pads	Complex shapes, flame retardant, low compression pads
Silicone foam	≤ 20%	N/A	I/O or shaped pads	Complex Shape, Flame Retardant

3. Pressure-sensitive adhesive tape

Pressure-sensitive adhesive tape	Peel Force (ASTM D3330)	Resistivity	Application	Temperature Resistance
3MTM 9485PC or equivalent	≥ 1.0 Kg/in	N/A	High adhesion, shear resistance	-30°C to 160°C
TT 219 or equivalent	≥ 0.8 Kg/in	≤ 0.05 Ohms/inch ²	High adhesion, conductive	-10°C to 100°C

Other pressure sensitive adhesives are available by contacting our engineering department.

Recommendations : The working pressure of EMI foam fabrics varies with the shape and size of the particular pad. In general, D-shaped, rectangular, and square EMI gaskets should be compressed to 30% to 50% of their height. Similarly, C-type EMI gaskets should normally be compressed to 50% to 70% of the height of the gasket.

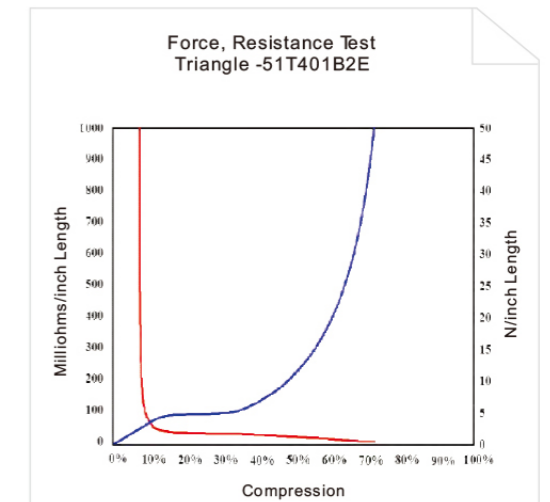
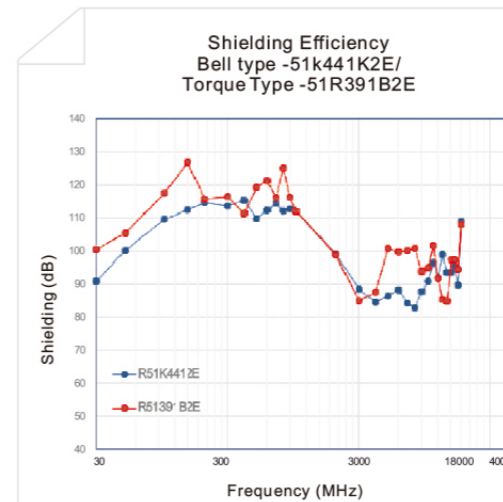
Dynamic consolidation force/resistance curves are available upon request, please contact engineering if you are unsure.

Product characteristics of FoF

Performance Classification	Numerical value	Standard
Electrical Characteristics		
Shielding Efficiency	≥ 80 dB (30MHz~18GHz) (Fig.1)	MIL-DTL-83528F
Surface Resistance	≤ 0.05 Ohms/inch ²	MIL-DTL-83528F
Compression Resistance	≤ 0.05 Ohms (30% compression) (Fig. 2)	CequalSC standard
Mechanical Properties		
Friction Resistance	≤ 1 Ohms/sq (1,000,000 cycles)	ASTM D 3885
Compression Resilience	≤ 50N (30% compression) (Fig. 2)	CequalSC standard
Compression Resilience	≤ 20% (50% compression, 22 H, 70°C)	ASTM D 3574
Working Height	30~70%	CequalSC standard
Environmental Dependence	≤ 0.20 Ohms/inch ² (120H cycles)	CequalSC standard
Corrosion resistance	≤ 0.20 Ohms/inch ² (24H)	ASTM B 117
Peeling force	≥ 1.0 Kg/in	ASTM D 3330
Other Properties		
Flame retardant	UL94 V0	UL94
RoHS	EU (RoHS 2.0)	IEC 62321
Application Temperature	Option 1	-40°C ~ +70°C General Foam
	Option 2	-40°C ~ +85°C High Temperature Resistant Foam
	Option 3	-40°C ~ +105°C High Performance Foam
	Option 4	-40°C ~ +125°C Silicone Foam
Halogen free	Chlorine ≤ 900ppm Bromine ≤ 900ppm Chlorine + Bromine ≤ 1500ppm	EN 14582

The data in the technical specifications is based on testing and analysis of CequalSC electronic materials that we believe to be reliable. However, under no circumstances can electronic materials be held responsible for inaccuracies or omissions contained therein. In all cases, details and values should be verified by the customer.

Compression Force F Compression D Resistance R Test Data



The coding principle of the FoF (conductive fabric gasket) series products

P / N : R51 X X X X X X X X X X

①
②
③
④
⑤
⑥
⑦
⑧
⑨

① 51 - product Type

51 - Conductive Fabric-Wrapped Foam

② X - Cross-Sectional Shape

R	Rectangle	D	D Shape	C	C Shape
H	Punching Product	T	Triangular Shape	K	Bell Shape
Q	Customer-Defined Shape	P	P Shape		

③ XX - Cross-Sectional Shape

Sequence code ranges from 00-ZZ; if insufficient, extends to 000-ZZZ-

④ X - Customer Options

0~9 or A-Z Different types, specifications, positions, etc. of adhesive backing

Specifies partial detailed product characteristics, including adhesive tape type, tape width, presence of PET, and other designated information. "1" is the default value, indicating the use of pressure-sensitive adhesive positioned at the center of the adhesive backing side. This information can be obtained from the RTS Technical Engineering Department.

⑤ X - Filler Material

Specified Core Material

A	No Filler	B	PU Foam	C	High-Density PU Foam
D	Low-Density PU Foam	F	Non-Woven Fabric / PET / FRP and Other Fillers	K	High-Temperature PU Foam
M	CF Omnidirectional Conductive Foam	N	Compression Foam		
P	P Silicone Foam (Operating Temperature -40~125°C)				

⑥ X - Flame Retardancy Level

Specified Flame Retardancy Level of the Product

0	No Requirement
1	UL94 V0+ ROHS Requirement
2	UL94 V0+ ROHS Requirement + Halogen-Free Requirement

⑦ X - Type of Conductive Fabric

Specified Fabric Filler Type of the Product

A	Aluminum Foil	B	Black Conductive Fabric	C	Sizing White Fabric
E	Ni/Cu PRS Plaid Conductive Fabric?	H	Ni/Cu PET-TAF Plain Weave Conductive Fabric		

⑧ XXXXX - Length Dimension

Two decimal digits indicate the part length in millimeters. In the above example, '01524' represents a pad length of 6.00 inches (152.4 mm).

⑨ X - Identification Code

For the same product, if customers require different units, typesetting, or packaging, differentiation can be made using letters A through Z.

Principles for Product Codes of All-Directional Conductive Foam (CF)

P / N : R52 X X X X X X X X

①
②
③
④
⑤
⑥
⑦

① 52 - Product Type

52 - Omnidirectional Conductive Foam

② X - Adhesive Backing Information

A	Without Adhesive
B	With Conductive Adhesive on Back
C	Non-Conductive Adhesive
D	Customer Customized

③ XXX - Product Thickness

For example: 100=1.00mm; 025=0.25mm

④ X - Shape

R	Rectangular
P	Punch Shape

⑤ XXXX - Width Dimension

Four digits in total; for example: 1234 = 123.4 mm

⑥ XXXX - Length Dimension

Four digits in total; for example: 1234 = 123.4 mm

⑦ X - Shape

For the same product, if customers require different units, typesetting, or packaging, differentiation can be made using letters A through Z.

Testing equipment and dimensional & tolerance standards for FoF

- High Precision Image Measuring Instrument
- Tensile Testing Machine
- Salt Spray Tester
- ROHS Tester
- Flame Retardant Tester
- Constant Temperature Tester
- Four-probe method resistance tester
- Universal Electronic Material Tester
- DFR Dynamic Resistance Tester
- Fabric Abrasion Tester
- Density Test Electronic Balance
- Precision Electronic Thickness Gauge
- Optical microscope
- Digital DC Low Resistance Meter

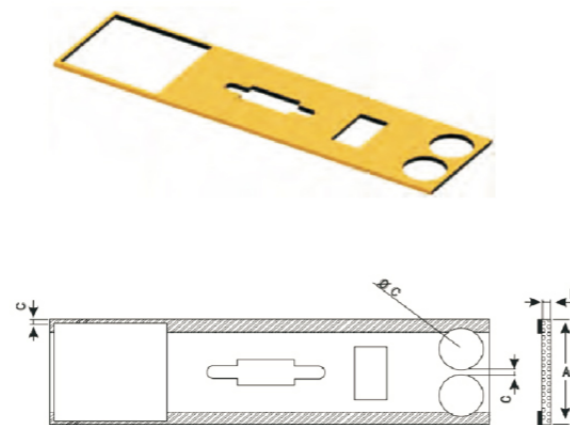
1. Tolerance Standard

- I/O: Height, Width, Length: $\pm 0.5\text{mm}$
- Profile: Height & Width: $\pm 0.5\text{mm}$
- Profile Length:
 - 0.53mm: $\pm 0.2\text{mm}$
 - 3.06mm: $\pm 0.3\text{mm}$
 - 6.0 30mm: $\pm 0.5\text{mm}$
 - 30 120mm: $\pm 0.8\text{mm}$
 - 120 400mm: $\pm 1.2\text{mm}$
 - 400 1000mm: $\pm 2.0\text{mm}$
 - 1000--2000mm: $\pm 3.0\text{mm}$
 - 2000--4000mm: $\pm 4.0\text{mm}$

2. Dimensional Considerations

• Product cross-section width A is less than 150mm, thickness B is less than 30mm. For I/O perforated products, the distance C between holes and holes and between holes and wrapping edges must not be less than 1.5mm, and the diameter C of round holes must not be less than 1.5mm.

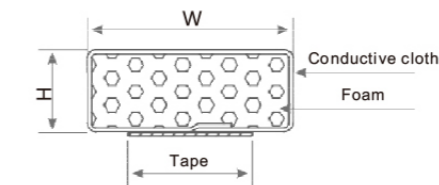
- The direction of adhesive tape and release paper must be parallel to the direction of the opening (shaded).
- The length of the product should not exceed 2500mm.



Standard Parts for FoF - Rectangular

Rectangular														
PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)	
R51RG2	0.433	11.0	0.394	10.0	R51RN9	0.059	1.5	0.098	2.5	R51RT7	0.047	1.2	0.197	5.0
R51RG3	0.433	11.0	0.197	5.0	R51RP1	0.039	1.0	0.220	5.6	R51RT8	0.087	2.2	0.197	5.0
R51RG4	0.020	0.5	0.197	5.0	R51RP2	0.039	1.0	1.969	50.0	R51RT9	0.039	1.0	0.201	5.1
R51RG5	0.220	5.6	0.311	7.9	R51RP3	0.236	6.0	0.472	12.0	R51RV1	0.035	0.9	0.071	1.8
R51RG6	0.075	1.9	0.476	12.1	R51RP4	0.217	5.5	0.157	4.0	R51RV2	0.051	1.3	0.091	2.3
R51RG7	0.020	0.5	0.079	2.0	R51RP5	0.787	20.0	0.591	15.0	R51RV3	0.051	1.3	0.236	6.0
R51RG8	0.012	0.3	0.370	9.4	R51RP6	0.020	0.5	0.150	3.8	R51RV4	0.016	0.4	0.201	5.1
R51RG9	0.020	0.5	0.394	10.0	R51RP7	0.039	1.0	0.246	6.3	R51RV5	0.394	10.0	0.472	12.0
R51RH1	0.866	22.0	0.591	15.0	R51RP8	0.236	6.0	0.157	4.0	R51RV6	0.315	8.0	0.472	12.0
R51RH2	0.055	1.4	0.079	2.0	R51RP9	0.472	12.0	0.315	8.0	R51RV7	0.551	14.0	0.394	10.0
R51RH3	0.157	4.0	0.236	6.0	R51RQ1	0.012	0.3	0.118	3.0	R51RV8	0.472	12.0	0.197	5.0
R51RH4	0.079	2.0	0.591	15.0	R51RQ2	0.217	5.5	0.394	10.0	R51RV9	0.020	0.5	0.264	6.7
R51RH5	0.236	6.0	0.315	8.0	R51RQ3	0.024	0.6	0.315	8.0	R51RW1	0.059	1.5	0.201	5.1
R51RH6	0.087	2.2	0.098	2.5	R51RQ4	0.087	2.2	0.116	3.0	R51RW2	0.079	2.0	0.201	5.1
R51RH7	0.063	1.6	0.157	4.0	R51RQ5	0.063	1.6	0.071	1.8	R51RW3	0.020	0.5	0.118	3.0
R51RH8	0.236	6.0	0.236	6.0	R51RQ6	0.087	2.2	0.071	1.8	R51RW4	0.071	1.8	0.177	4.5
R51RH9	0.472	12.0	0.591	15.0	R51RQ7	0.039	1.0	0.591	15.0	R51RW5	0.039	1.0	0.339	8.6
R51RK1	0.022	0.6	0.551	14.0	R51RQ8	0.276	7.0	0.394	10.0	R51RW6	0.071	1.8	0.157	4.0
R51RK2	0.039	1.0	0.354	9.0	R51RQ9	0.709	18.0	0.394	10.0	R51RW7	0.071	1.8	0.197	5.0
R51RK3	0.591	15.0	0.394	10.0	R51RR1	0.059	1.5	0.280	7.1	R51RW8	0.201	5.1	0.201	5.1
R51RK4	0.126	3.2	0.252	6.4	R51RR2	0.091	2.3	0.661	16.8	R51RW9	0.118	3.0	0.138	3.5
R51RK5	0.039	1.0	0.709	18.0	R51RR3	0.059	1.5	1.201	30.5	R51RX1	0.039	1.0	0.157	4.0
R51RK6	0.150	3.8	0.110	2.8	R51RR4	0.173	4.4	0.449	11.4	R51RX2	0.024	0.6	0.276	7.0
R51RK7	0.472	12.0	0.472	12.0	R51RR5	0.157	4.0	0.315	8.0	R51RX3	0.063	1.6	0.079	2.0
R51RK8	0.161	4.1	0.236	6.0	R51RR6	0.177	4.5	0.394	10.0	R51RX4	0.016	0.4	0.197	5.0
R51RK9	0.098	2.5	0.236	6.0	R51RR7	0.177	4.5	0.315	8.0	R51RX5	0.059	1.5	0.354	9.0
R51RM1	0.059	1.5	0.110	2.8	R51RR8	0.098	2.5	0.315	8.0	R51RX6	0.098	2.5	0.071	1.8
R51RM2	0.087	2.2	0.177	4.5	R51RR9	0.394	10.0	0.315	8.0	R51RX7	0.079	2.0	0.063	1.6
R51RM3	0.059	1.5	0.213	5.4	R51RS1	0.354	9.0	0.394	10.0	R51RX8	0.118	3.0	0.394	10.0
R51RM4	0.059	1.5	0.079	2.0	R51RS2	0.118	3.0	0.669	17.0	R51RX9	0.051	1.3	0.217	5.5
R51RM5	0.094	2.4	0.118	3.0	R51RS3	0.118	3.0	0.630	16.0	R51RY1	0.224	5.7	0.177	4.5
R51RM6	0.020	0.5	1.024	26.0	R51RS4	0.118	3.0	1.276	32.4	R51RY2	0.047	1.2	0.157	4.0
R51RM7	0.059	1.5	0.059	1.5	R51RS5	0.118	3.0	0.953	24.2	R51RY3	0.039	1.0	0.260	6.6
R51RM8	0.012	0.3	0.181	4.6	R51RS6	0.098	2.5	0.276	7.0	R51RY4	0.150	3.8	0.500	12.7
R51RM9	0.094	2.4	0.079	2.0	R51RS7	0.039	1.0	0.256	6.5	R51RY5	0.043	1.1	0.528	13.4
R51RN1	0.157	4.0	0.354	9.0	R51RS8	0.197	5.0	0.709	18.0	R51RY6	0.433	11.0	0.236	6.0
R51RN2	0.012	0.3	0.394	10.0	R51RS9	0.079	2.0	0.630	16.0	R51RY7	0.039	1.0	0.512	13.0
R51RN3	0.236	6.0	0.354	9.0	R51RT1	0.138	3.5	0.157	4.0	R51RY8	0.130	3.3	0.189	4.8
R51RN4	0.039	1.0	1.614	41.0	R51RT2	0.276	7.0	0.098	2.5	R51RY9	0.028	0.7	0.315	8.0
R51RN5	0.047	1.2	0.866	22.0	R51RT3	0.031	0.8	0.315	8.0	R51RZ1	0.118	3.0	0.276	7.0
R51RN6	0.098	2.5	0.268	6.8	R51RT4	0.126	3.2	0.591	15.0	R51RZ5	0.323	8.2	0.177	4.5
R51RN7	0.472	12.0	0.177	4.5	R51RT5	0.024	0.6	0.366	9.3	R51RZ6	0.063	1.6	0.394	10.0
R51RN8	0.197	5.0	0.472	12.0	R51RT6	0.051	1.3	0.220	5.6	R51RZ7	0.047	1.2	0.071	1.8

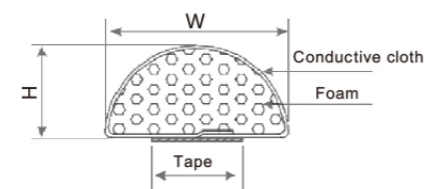
Rectangular Series Schematic



Standard Parts for FoF - D Shape

D-shape														
PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)	
R51D11	0.142	3.6	0.252	6.4	R51D52	0.079	2.0	0.157	4.0	R51D89	0.071	1.8	0.295	7.5
R51D12	0.106	2.7	0.169	4.3	R51D53	0.106	2.7	0.142	3.6	R51D90	0.157	4.0	0.425	10.8
R51D13	0.079	2.0	0.394	10.0	R51D54	0.197	5.0	0.374	9.5	R51D91	0.201	5.1	0.480	12.2
R51D14	0.098	2.5	0.299	7.6	R51D55	0.126	3.2	0.374	9.5	R51D92	0.079	2.0	0.236	6.0
R51D15	0.098	2.5	0.248	6.3	R51D56	0.071	1.8	0.181	4.6	R51D93	0.118	3.0	0.394	10.0
R51D16	0.189	4.8	0.299	7.6	R51D57	0.157	4.0	0.315	8.0	R51D94	0.098	2.5	0.157	4.0
R51D17	0.098	2.5	0.394	10.0	R51D58	0.118	3.0	0.150	3.8	R51D95	0.130	3.3	0.256	6.5
R51D18	0.059	1.5	0.150	3.8	R51D59	0.091	2.3	0.205	5.2	R51D96	0.098	2.5	0.394	10.0
R51D19	0.079	2.0	0.079	2.0	R51D60	0.083	2.1	0.315	8.0	R51D97	0.138	3.5	0.394	10.0
R51D20	0.079	2.0	0.394	10.0	R51D61	0.138	3.5	0.394	10.0	R51D98	0.098	2.5	0.250	6.4
R51D21	0.252	6.4	0.252	6.4	R51D62	0.059	1.5	0.118	3.0	R51D99	0.130	3.3	0.189	4.8
R51D22	0.157	4.0	0.500	12.7	R51D63	0.059	1.5	0.236	6.0	R51DA1	0.200	5.1	0.394	10.0
R51D23	0.091	2.3	0.150	3.8	R51D64	0.118	3.0	0.354	9.0	R51DA2	0.098	2.5	0.583	14.8
R51D24	0.181	4.6	0.394	10.0	R51D65	0.075	1.9	0.150	3.8	R51DA3	0.079	2.0	0.118	3.0
R51D25	0.217	5.5	0.409	10.4	R51D66	0.118	3.0	0.118	3.0	R51DA4	0.110	2.8	0.276	7.0
R51D26	0.173	4.4	0.244	6.2	R51D67	0.102	2.6	0.370	9.4	R51DA5	0.059	1.5	0.177	4.5
R51D27	0.059	1.5	0.315	8.0	R51D68	0.118	3.0	0.358	9.1	R51DA6	0.094	2.4	0.201	5.1
R51D28	0.094	2.4	0.374	9.5	R51D68	0.118	3.0	0.358	9.1	R51DA7	0.118	3.0	0.500	12.7
R51D29	0.079	2.0	0.142	3.6	R51D69	0.087	2.2	0.299	7.6	R51DA8	0.138	3.5	0.315	8.0
R51D31	0.157	4.0	0.236	6.0	R51D70	0.039	1.0	0.150	3.8	R51DA9	0.059	1.5	0.394	10.0
R51D32	0.079	2.0	0.315	8.0	R51D71	0.150	3.8	0.150	3.8	R51DA10	0.118	3.0	0.250	6.4
R51D33	0.157	4.0	0.150	3.8	R51D72	0.157	4.0	0.787	20.0	R51DA11	0.098	2.5	0.315	8.0
R51D34	0.079	2.0	0.276	7.0	R51D73	0.079	2.0	0.500	12.7	R51DA12	0.079	2.0	0.394	10.0
R51D35	0.079	2.0	0.295	7.5	R51D74	0.106	2.7	0.500	12.7	R51DA13	0.150	3.8	0.354	9.0
R51D36	0.118	3.0	0.472	12.0	R51D75	0.150	3.8	0.500	12.7	R51DA14	0.177	4.5	0.315	8.0
R51D37	0.039	1.0	0.276	7.0	R51D76	0.071	1.8	0.500	12.7	R51DA15	0.197	5.0	0.315	8.0
R51D38	0.079	2.0	0.394	10.0	R51D77	0.098	2.5	0.500	12.7	R51DA16	0.071	1.8	0.150	3.8
R51D39	0.071	1.8	0.169	4.3	R51D78	0.138	3.5	0.500	12.7	R51DA17	0.250	6.4	0.250	6.4
R51D40	0.118	3.0	0.335	8.5	R51D79	0.157	4.0	0.591	15.0	R51DA18	0.106	2.7	0.169	4.3
R51D41	0.157	4.0	0.433	11.0	R51D80	0.059	1.5	0.252	6.4	R51DA19	0.118	3.0	0.394	10.0
R51D42	0.118	3.0	0.315	8.0	R51D81	0.118	3.0	0.394	10.0	R51DA20	0.169	4.3	0.250	6.4
R51D43	0.252	6.4	0.374	9.5	R51D82	0.181	4.6	0.402	10.2	R51DA21	0.374	9.5	0.500	12.7
R51D44	0.079	2.0	0.370	9.4	R51D83	0.070	1.8	0.394	10.0	R51DA22	0.299	7.6	0.500	12.7
R51D45	0.118	3.0	0.252	6.4	R51D84	0.110	2.8	0.374	9.5	R51DA23	0.110	2.8	0.224	5.7
R51D47	0.039	1.0	0.394	10.0	R51D85	0.201	5.1	0.252	6.4	R51DA24	0.161	4.1	0.240	6.1
R51D48	0.091	2.3	0.091	2.3	R51D86	0.106	2.7	0.394	10.0	R51DA25	0.161	4.1	0.250	6.4
R51D49	0.102	2.6	0.177	4.5	R51D87	0.157	4.0	0.394	10.0	R51DA26	0.142	3.6	0.339	8.6
R51D51	0.130	3.3	0.299	7.6	R51D88	0.118	3.0	0.098	2.5					

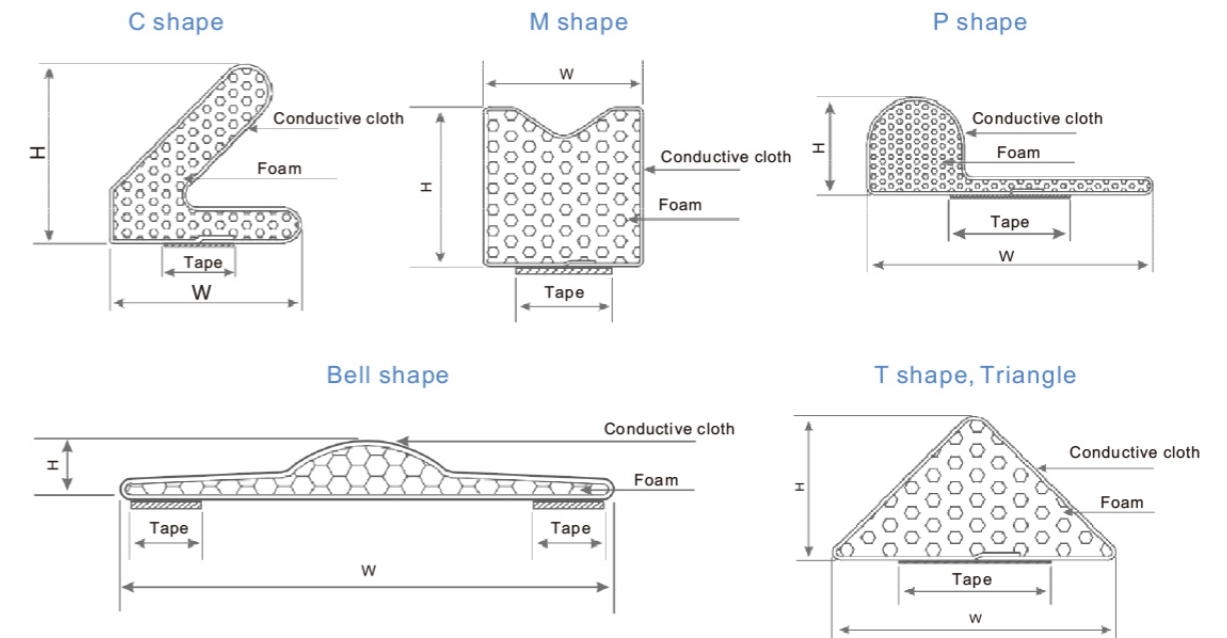
D-shape Series Schematic



Standard Parts for FoF – C, P, M, Bell & T shape, Triangle

C, P, M shape				Bell shape				T shape, Triangle						
PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)		PN	H(inch:mm)		W(inch:mm)	
R51C11	0.315	8.0	0.315	8.0	R51K11	0.217	5.5	0.591	15.0	R51T12	0.236	6.0	0.488	12.4
R51C12	0.394	10.0	0.433	11.0	R51K12	0.071	1.8	0.563	14.3	R51T13	0.118	3.0	0.512	13.0
R51C13	0.315	8.0	0.315	8.0	R51K13	0.071	1.8	0.181	4.6	R51T14	0.098	2.5	0.394	10.0
R51C15	0.386	9.8	0.421	10.7	R51K14	0.122	3.1	0.315	8.0	R51T15	0.157	4.0	0.720	18.3
R51C16	0.465	11.8	0.421	10.7	R51K15	0.059	1.5	0.563	14.3	R51T16	0.091	2.3	0.362	9.2
R51C23	0.252	6.4	0.256	6.5	R51K16	0.071	1.8	0.559	14.2	R51T17	0.118	3.0	0.276	7.0
R51C24	0.315	8.0	0.315	8.0	R51K17	0.059	1.5	0.315	8.0	R51T18	0.138	3.5	0.394	10.0
R51C25	0.402	10.2	0.429	10.9	R51K18	0.067	1.7	0.484	12.3	R51T19	0.079	2.0	0.236	6.0
R51C26	0.673	17.1	0.591	15.0	R51K19	0.157	4.0	0.500	12.7	R51T20	0.094	2.4	0.299	7.6
P shape				R51K20	0.071	1.8	0.181	4.6	R51T21	0.110	2.8	0.618	15.7	
R51P11	0.118	3.0	0.492	12.5	R51K21	0.098	2.5	0.299	7.6	R51T22	0.039	1.0	0.374	9.5
R51P12	0.276	7.0	0.433	11.0	R51K22	0.098	2.5	0.394	10.0	R51T23	0.098	2.5	0.394	10.0
R51P13	0.173	4.4	0.646	16.4	R51K23	0.087	2.2	0.181	4.6	R51T24	0.098	2.5	0.374	9.5
R51P14	0.118	3.0	0.520	13.2	R51K24	0.138	3.5	0.315	8.0	R51T25	0.059	1.5	0.394	10.0
M shape				R51K25	0.130	3.3	0.394	10.0	R51T26	0.118	3.0	0.319	8.1	
R51M11	0.394	10.0	0.394	10.0	R51K26	0.079	2.0	0.299	7.6	R51T27	0.098	2.5	0.394	10.0
R51M12	0.374	9.5	0.500	12.7	R51K27	0.181	4.6	0.551	14.0	R51T28	0.157	4.0	0.394	10.0
										R51T29	0.063	1.6	0.197	5.0
										R51T30	0.079	2.0	0.315	8.0
										R51T31	0.110	2.8	0.319	8.1
										R51T32	0.091	2.3	0.250	6.4
										R51T33	0.126	3.2	0.250	6.4
										R51T34	0.091	2.3	0.500	12.7
										R51T35	0.126	3.2	0.500	12.7

C, P, M, Bell & T shape, Triangle Series Schematics

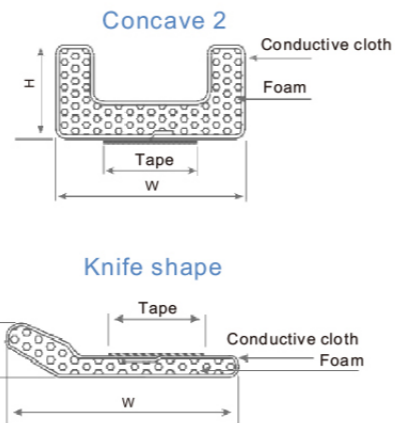
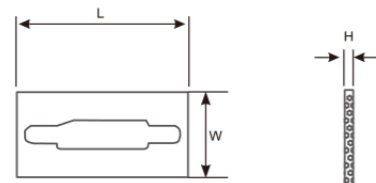


Standard Parts for FoF - I/O and others

I/O					Customized											
PN	H(inch:mm)	W(inch:mm)	L(inch:mm)	PN	H(inch:mm)	W(inch:mm)	PN	H(inch:mm)	W(inch:mm)							
R51HZ7	0.079	2.0	1.142	29.0	4.972	126.3	R51Q11	0.201	5.1	0.413	10.5	R51Q41	0.079	2.0	0.500	12.7
R51HZ8	0.039	1.0	1.035	26.3	1.854	47.1	R51Q12	0.346	8.8	0.685	17.4	R51Q42	0.146	3.7	0.256	6.5
R51HZ9	0.039	1.0	0.618	15.7	0.854	21.7	R51Q13	0.106	2.7	0.445	11.3	R51Q43	0.059	1.5	0.256	6.5
R51H100	0.079	2.0	0.642	16.3	14.291	363.0	R51Q14	0.157	4.0	0.386	9.8	R51Q44	0.197	5.0	0.673	17.1
R51H101	0.079	2.0	1.669	42.4	5.839	148.3	R51Q15	0.118	3.0	0.220	5.6	R51Q45	0.091	2.3	0.394	10.0
R51H102	0.059	1.5	1.248	31.7	1.866	47.4	R51Q16	0.118	3.0	0.382	9.7	R51Q46	0.098	2.5	0.394	10.0
R51H103	0.039	1.0	0.768	19.5	3.898	99.0	R51Q17	0.205	5.2	0.287	7.3	R51Q47	0.177	4.5	0.433	11.0
R51H104	0.039	1.0	0.614	15.6	0.772	19.6	R51Q18	0.205	5.2	0.303	7.7	R51Q48	0.315	8.0	0.472	12.0
R51H105	0.126	3.2	1.260	32.0	14.150	359.4	R51Q19	0.283	7.2	0.374	9.5	R51Q49	0.079	2.0	0.394	10.0
R51H106	0.126	3.2	1.250	31.8	1.831	46.5	R51Q20	0.283	7.2	0.268	6.8	R51Q50	0.118	3.0	0.394	10.0
R51H107	0.118	3.0	1.516	38.5	1.516	38.5	R51Q21	0.083	2.1	0.413	10.5	R51Q51	0.098	2.5	0.248	6.3
R51H108	0.047	1.2	1.516	38.5	1.516	38.5	R51Q22	0.083	2.1	0.287	7.3	R51Q52	0.122	3.1	0.256	6.5
R51H109	0.079	2.0	0.157	4.0	4.921	125.0	R51Q23	0.244	6.2	0.268	6.8	R51Q53	0.102	2.6	0.197	5.0
R51H110	0.039	1.0	0.276	7.0	4.843	123.0	R51Q24	0.220	5.6	0.331	8.4	R51Q54	0.098	2.5	0.157	4.0
R51H111	0.079	2.0	1.063	27.0	5.862	148.9	R51Q25	0.276	7.0	0.295	7.5	R51Q55	0.236	6.0	0.244	6.2
R51H112	0.118	3.0	0.630	16.0	4.724	120.0	R51Q26	0.118	3.0	0.394	10.0	R51Q56	0.098	2.5	0.319	8.1
R51H113	0.386	9.8	0.421	10.7	1.969	50.0	R51Q27	0.185	4.7	0.197	5.0	R51Q57	0.087	2.2	0.118	3.0
R51H114	0.433	11.0	0.079	2.0	0.709	18.0	R51Q28	0.354	9.0	0.157	4.0	R51Q58	0.118	3.0	0.197	5.0
R51H115	0.079	2.0	0.902	22.9	8.000	203.2	R51Q29	0.276	7.0	0.236	6.0	R51Q59	0.110	2.8	0.197	5.0
R51H116	0.118	3.0	0.315	8.0	10.043	255.1	R51Q30	0.217	5.5	0.177	4.5	R51Q60	0.138	3.5	0.157	4.0
R51H117	0.079	2.0	0.630	16.0	0.984	25.0	R51Q31	0.110	2.8	0.382	9.7	R51Q61	0.091	2.3	0.500	12.7
R51H118	0.079	2.0	0.598	15.2	11.953	303.6	R51Q32	0.118	3.0	0.319	8.1	R51Q62	0.079	2.0	0.295	7.5
R51H119	0.039	1.0	0.756	19.2	10.039	255.0	R51Q33	0.138	3.5	0.315	8.0	R51Q63	0.079	2.0	0.500	12.7
R51H120	0.126	3.2	0.591	15.0	15.748	400.0	R51Q34	0.098	2.5	0.374	9.5	R51Q64	0.079	2.0	0.354	9.0
R51H121	0.098	2.5	1.043	26.5	3.189	81.0	R51Q35	0.110	2.8	0.618	15.7	R51Q65	0.098	2.5	0.406	10.3
R51H122	0.110	2.8	0.354	9.0	17.441	443.0	R51Q36	0.106	2.7	0.445	11.3	R51Q66	0.209	5.3	0.130	3.3
R51H123	0.039	1.0	2.413	61.3	4.961	126.0	R51Q37	0.150	3.8	0.150	3.8	R51Q67	0.154	3.9	0.236	6.0
R51H124	0.039	1.0	0.831	21.1	1.969	50.0	R51Q38	0.138	3.5	0.374	9.5	R51Q68	0.094	2.4	0.354	9.0
R51H125	0.039	1.0	0.433	11.0	1.181	30.0	R51Q39	0.142	3.6	0.500	12.7	R51Q69	0.138	3.5	0.315	8.0
							R51Q40	0.098	2.5	0.299	7.6	R51Q70	0.091	2.3	0.827	21.0

I/O & other series Schematic

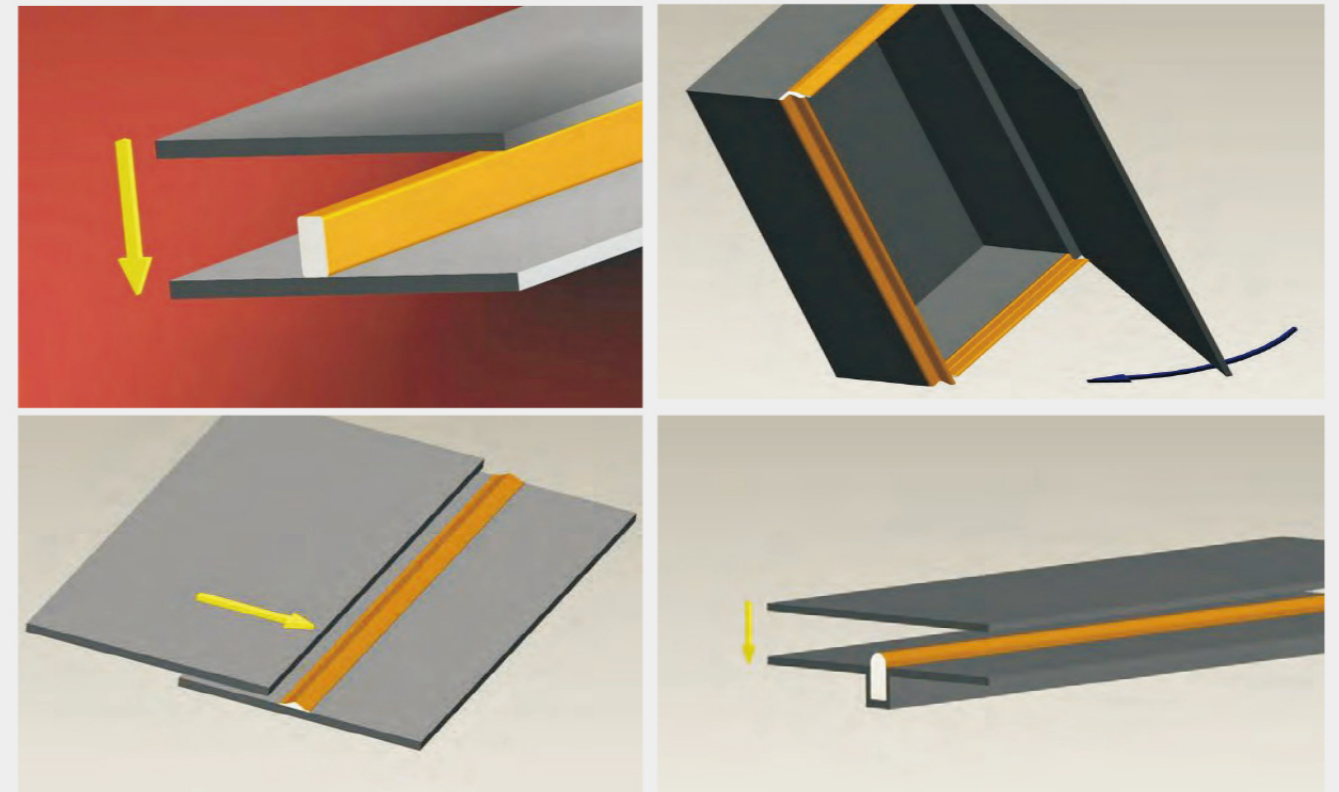
I/O series Schematic



If the conductive fabric pads listed in this catalog still do not meet your needs, please contact our engineers and we will design and manufacture the products you need according to your requirements.

Applications for FoF

Virtual diagram of the application of conductive fabric liner with different cross-sections



Actual drawing of Pro/E