

## **CMAI INTERNATIONAL LIMITED**

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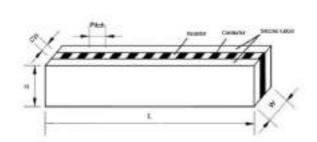
## **Rubber Connector Catalog**

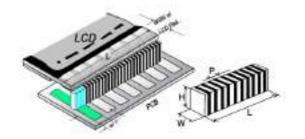
terial Composition			
Туре	Mater	ial	Portion
Conductive silicone	Vinylmethylsiloxane homopolymer		60%
	Acetylene black		40%
Insulated silicone	Vinylmethylsiloxane homopolymer		67%
	Silicon dioxide		32%
	Dicumyl peroxide		0.9%
	Titanium Dioxide		0.1%
Insulated Layer	Vinylmethylsiloxane homopolymer		82%
Silicon dioxide  Dicumyl peroxide		ioxide	17.90%
		eroxide	0.10%
Туре	Picture		Description

	Dicumyl peroxide		0.10%
Туре	Picture	Descr	iption
YL Type	Manna:-	1. It is the compressive conduct 2. It is made up with alternative insulating silicone rubber. 3. Widely use to LCD watches EL, use for testing PCB and so equipment.	and clocks, connect PCB and
ҮР Туре	Thy.	1. The sponge rubbers are with reducing; 2. Avoid the short circuit when 3. The sponge rubber insulator YS Type products. 4. More suitable to use for condition PCB's, the electronic products audio, and toy and so on.	use the metal shell; s are more compressible than necting large sized LCD's to
YS Type		1. Consists of alternate layers of crubber; 2. The insulators are fitted on both 3. YS type has translucent suppor sides. 4. Suitable for small or middle-size products such as Calculator, Elect Audio and Visual products, etc.	n sides which is soft; tive solid rubber on the both ed displays, general LCD

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BYS Type	IIII.	Consists of alternate layers of conductive and insulating silicone rubber;     The insulators are fitted on both sides which is soft;     YS type has translucent supportive solid rubber on the both sides.     Suitable for small or middle-sized displays; General LCD products such as Calculator, Electronic Toy, Telecommunication, Audio and Visual products, etc.
YI Type	IIIh.	1.Consists of alternate layers conductive and insulation silicone rubber; 2. This compression-type connector makes random connection possible with high reliability. 3.Applicable for the small-sized LCD display such as digital watch or camera.
MG Туре	The last second like	It is designed to meet the ultra-low resistance requirement of customers;     The silver particles are added to the conductive layers to make the resistance very low.     Such as Chip-On-Glass type LCD & MIC Holder, Mobile Phone Screen, PCB to PCB, Flex Circuit to PCB etc.
QS Type	QS Type	As the spacer in combination with YP, YI & YS / BYS type inter-connectors to balance LCD;     To ensure even distribution of weight When LCD design needs single-sided conductive pattern.     Supporting LCD with single-sided conductive pattern and protecting the glass surface & conductive lines from vibration Impact.
QP Туре	CPTgpe	1. The same functions as QS Type; 2. More compressible than QS type due to the material features; 3. Supporting LCD with single-sided conductive pattern and protecting the glass surface & conductive lines from vibration Impact.
QLType	GS Type	1. The same functions as QS / QP Type; 2. Various colors and sizes are available. 3. Supporting LCD with single-sided conductive pattern and protecting the glass surface & conductive lines from vibration Impact.

Length (	mm)	Height (mm)	Width (mm)	Pitch
The glass length reduce 0.5mm		The height between LCD and PCB × (1.08~1.15) that is to say the impression ratio is 8%~15%, and the best impression ratio is 10%.	The edge width of LCD × (0.9~0.95)	The ratio between each gold finger width of PCB and the conductive rubber connector must be more than 3~5, that is to say, each gold finger must touch 3~5 conducting layer to make sure good conductive.
Dimension ar	nd Toleran	ce		
Item	Unit	0.05P	0.10P	0.18P
Pitch(P)	mm	0.05±0.015	0.10±0.03	0.18±0.04
Length(L)	mm	1.0~24.0±0.10 24.1~50.0±0.15 50.1~100.0±0.20 100.1~200.0±0.30		
Height (H)	mm	0.8~7.0±0.10 7.1~15.0±0.15		
Width(W)	mm	1.0~2.5±0.15 2.5~4.0±0.20		
Conduct width (TC)	mm	0.025±0.01	0.05±0.02	0.09±0.03
Insulator width (TI)	mm	0.025±0.01	0.05±0.02	0.09±0.03
Core width (CW)	mm	0.2~1.0±0.05 1.1~4.0±0.10		
Skewness	≤2°			
Remark	In order to make the connectors work well, the compression limit for the height direction of the connectors must be between 8.0%~15%, and the best compression value is 10%, and the suitable touch pressure is bigger than 20g / mm×length.			





Physical properties				
Item	Units	Insulator	Conductor	Side Insulator
		YL/YP/YS/YI/SYS/BYS	YL/YP/YS/YI/SYS/BYS	YP/YS/YI/SYS/BYS
Specific Gravity	g/cm <sup>3</sup>	0.6-1.15	1.2	1.05
	<b>25</b> ℃			
Shore hardness A	ISO 7619 Shore	55-65	65-75	25-35
Volume Resistance	Ω	10 <sup>12</sup>	2.5-6	10 <sup>11</sup>

Breakdown Voltage	KV/mm	20-25	20-25	20-25
Tensile Strength		70-80	50-60	20-40
Elongation	%	150-250	150-200	250-400
Compression set	%	15-20	15-20	15-20
Rated Current	MA/mm <sup>2</sup>	1	1	1
Insulation Resistance (500VDC)	МΩ	1000	1000	1000
Operating temperature	${\mathbb C}$	-25~+100, +25℃85%		
Store temperature	$^{\circ}$	-40℃~+120℃		