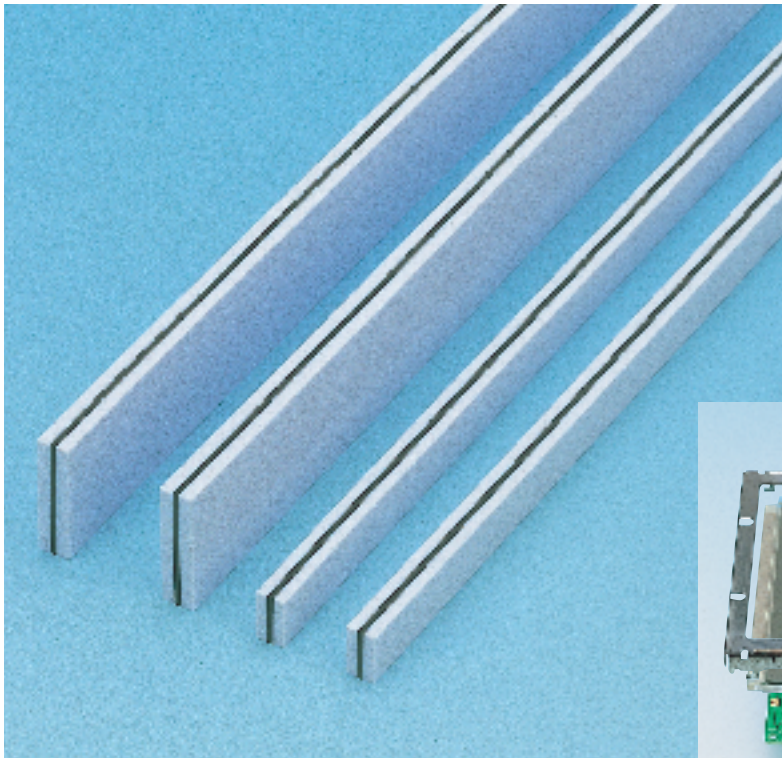


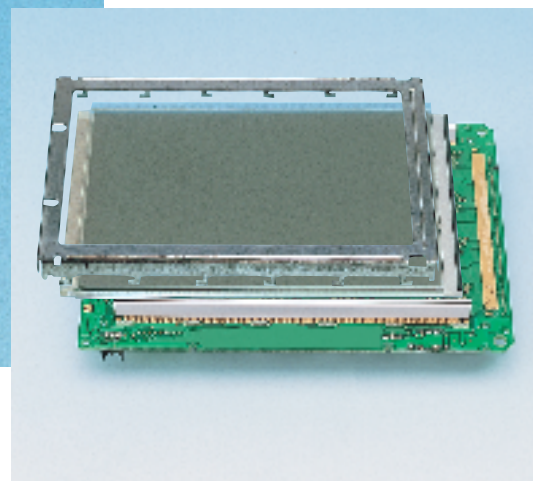
## Shin-Etsu Inter-Connector<sup>®</sup>

# SEC, SX<sub>TYPE</sub>

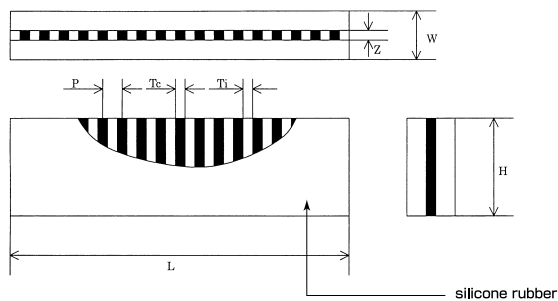


### FEATURES

SEC/SX-type Inter-Connector has lower resistance in the conductive part. This type of connector is suitable for the large LCD display, which is a monochrome STN type. Furthermore, it could be used between PCBs besides LCD because of its much lower resistance.



### OUTLINE DIMENSIONS



### DIMENSIONS AND TOLERANCES

Item		Unit	SEC type		SX type	
Pitch	P	mm	0.05 ± 0.03		0.03 ± 0.03/-0.01	
Length	L	mm	2.0 ~ 20.0 ± 0.15	20.1 ~ 90.0 ± 0.65%	90.1 ~ 150.0 ± 0.6	
			150.1 ~ 200.0 ± 0.8	200.1 ~ 300.0 ± 1.0		
Height*	H	mm	1.5 ~ 5.0 ± 0.1		5.1 ~ 20.0 +0.15/-0.1	
Width	W	mm	1.5 ± 0.1	3.0 ± 0.15	4.5 ± 0.15	
			2.0 ± 0.1	3.5 ± 0.15	5.0 ± 0.15	
			2.5 ± 0.15	4.0 ± 0.15		
Width of conductive layer	Z	mm	0.7 ± 0.05			

\*H ≥ W/2

Shin-Etsu Inter-Connector has been registered in European Community, TM No. 000299016, and in the United States of America, TM No. 2078941.

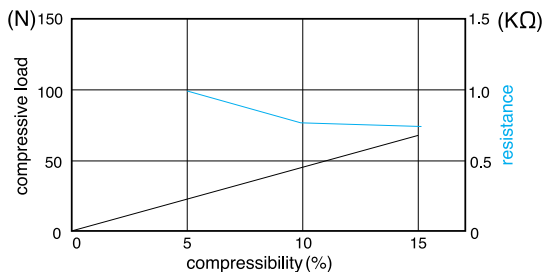
## BASIC PROPERTIES

Item	Component	Unit	SEC-WHX type	SEC-NX type	SX-35° type
Shore hardness A	Insulator	ISO7619 (TYPE A)	65~73	65~73	60~65
	Conductor		60~65	60~65	70~75
	Edge insulation part(1)		20~25 35~40	20~25 35~40	20~25 35~40
Compression set	*	%	15~20	15~20	15~20
Volume resistivity	Insulator	$\Omega \cdot m$	$1 \times 10^{14}$	$1 \times 10^{14}$	$1 \times 10^{14}$
	Conductor		1.3	1.0	0.5
	Edge insulation part		$1 \times 10^{11}$	$1 \times 10^{11}$	$1 \times 10^{11}$
Dielectric breakdown voltage	Insulator	kV/mm	23~27	23~27	23~27
	Edge insulation part		23~27	23~27	23~27
Insulation resist.(500V DC)	*	M $\Omega$	$1 \times 10^3 \leq$	$1 \times 10^3 \leq$	$1 \times 10^3 \leq$
Operating temp. range		°C	-25~85	-25~85	-25~85

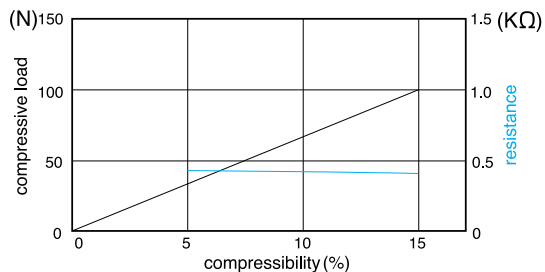
(1)The hardness of the support material has alternatives of 20° and 35°.

\*The test is carried out with Shin-Etsu's own method.

## COMPRESSION CURVES

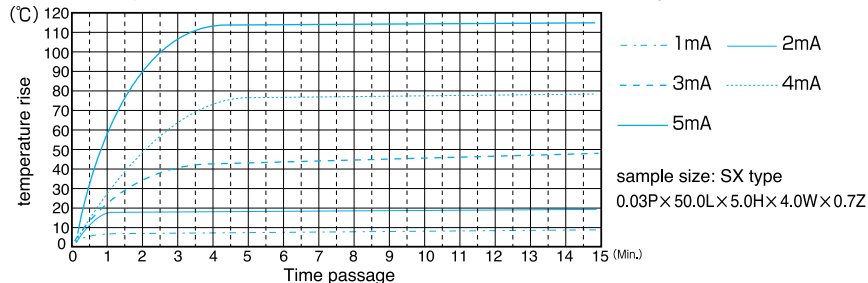


sample size: SEC-WHX type  
0.05P×50L×5H×2.6W×0.7Z  
electrodes used: 0.4mm-width gold-plated vs.  
no pattern processed gold-plated  
no holder



sample size: SX type  
0.03P×50L×5H×2.6W×0.7Z  
electrodes used: 0.4mm-width gold-plated vs.  
no pattern processed gold-plated  
no holder

Current per conductive layer-temperature rise curves;0.6mm-width Au-plated electrode charged



sample size: SX type  
0.03P×50.0L×5.0H×4.0W×0.7Z

**Note)** Every item or numerical value indicated herein is measured by Shin-Etsu and out of guarantee.  
The quality of the connector, which has been already assembled, is out of guarantee.  
Please make sure to see about the purpose/conditions of use and practice your own test.  
Industrial ownership like patent doesn't guarantee the usage of the connector

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