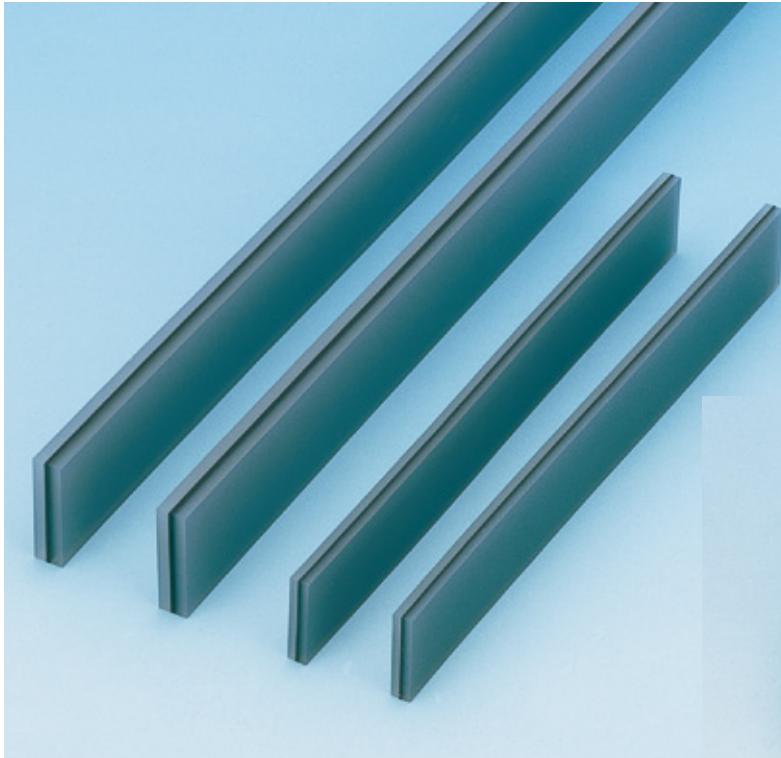


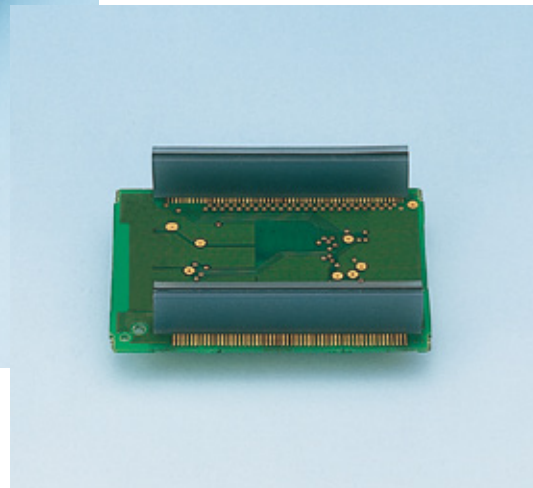
## Shin-Etsu Inter-Connector®

### SP TYPE

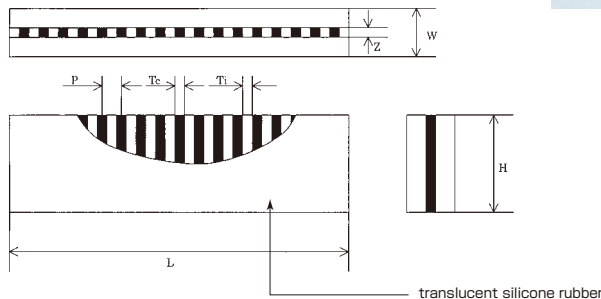


#### FEATURES

SP-type Inter-Connector consists of alternate layers of conductive and insulating rubber and of soft rubber insulators fitted on both sides. Since SP type has lower resistance than SS/SG, it is particularly ideal for display with tall height, such as LCD with backlight.



#### OUTLINE DIMENSIONS



#### DIMENSIONS AND TOLERANCES

| Item                      |   | Unit | 0.05 P type           | 0.10 P type                     |
|---------------------------|---|------|-----------------------|---------------------------------|
| Pitch                     | P | mm   | 0.05 ± 0.03           | 0.10 ± 0.04                     |
| Length                    | L | mm   | 2.0 ~ 20.0 ± 0.15     | 150.1 ~ 200.0 ± 0.8             |
|                           |   |      | 20.1 ~ 90.0 ± 0.65%   | 200.1 ~ 275.0 ± 1.0             |
|                           |   |      | 90.1 ~ 150.0 ± 0.6    |                                 |
| Height*                   | H | mm   | 1.0 ~ 5.0 ± 0.1       | 5.1 ~ 20.0 + 0.15 / - 0.1       |
| Width                     | W | mm   | 1.2 ~ 2.3 ± 0.1       | 2.4 ~ 4.0 ± 0.15                |
| Width of conductive layer | Z | mm   | 0.3 ± 0.05 (standard) | 0.6 ± 0.05 (secondary standard) |

\* H > W/2

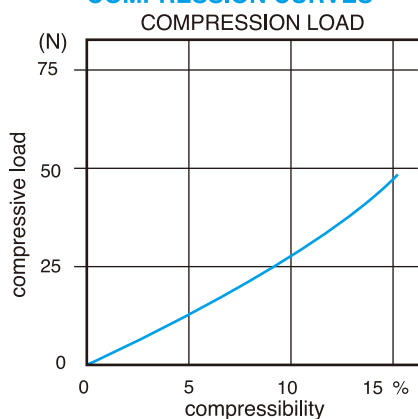
Shin-Etsu Inter-Connector has been registered in European Community, TM No. 000299016, and in the United States of America, TM No. 2078941.

## BASIC PROPERTIES

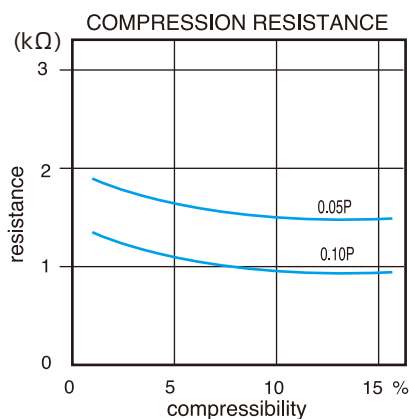
| Item                           | Component            | Unit                     | 0.05 P type          | 0.10 P type          |
|--------------------------------|----------------------|--------------------------|----------------------|----------------------|
| Specific gravity               | Insulator            |                          | 1.15                 | 1.15                 |
|                                | Conductor            |                          | 1.15                 | 1.15                 |
|                                | Edge insulation part |                          | 1.05                 | 1.05                 |
| Shore hardness A               | Insulator            | ISO7619<br>(TYPE A)      | 65~73                | 65~73                |
|                                | Conductor            |                          | 60~65                | 60~65                |
|                                | Edge insulation part |                          | 20~25                | 20~25                |
| Compression set                | *                    | %                        | 15~20                | 12~18                |
| Volume resistivity             | Insulator            | $\Omega \cdot \text{cm}$ | $1 \times 10^{14}$   | $1 \times 10^{14}$   |
|                                | Conductor            |                          | 1.3                  | 1.3                  |
|                                | Edge insulation part |                          | $8 \times 10^{13}$   | $8 \times 10^{13}$   |
| Dielectric breakdown voltage   | Insulator            | kV/mm                    | 23~27                | 23~27                |
|                                | Edge insulation part |                          | 23~27                | 23~27                |
| Insulation resistance(500V DC) | *                    | M $\Omega$               | $1 \times 10^3 \leq$ | $1 \times 10^3 \leq$ |
| Operating temperature range    |                      | $^{\circ}\text{C}$       | -25~85               | -25~85               |

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

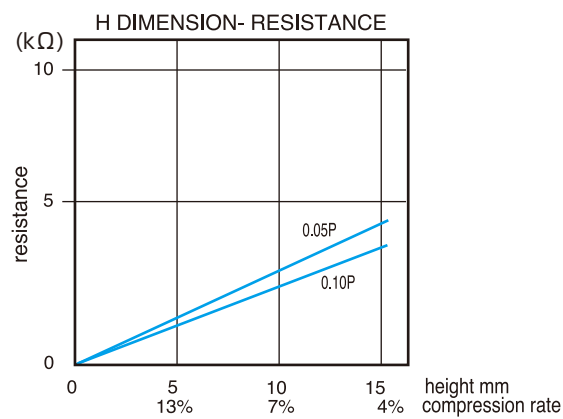
## COMPRESSION CURVES



sample size:  
0.05P×50.0L×5.0H×2.6W×0.3Z



sample size:  
0.05/0.10P×50.0L×5.0H×2.6W×0.3Z  
electrodes used: 0.4mm-width gold-plated vs.  
no pattern processed gold plated  
no holder



sample size:  
0.05/0.10P×50.0L×5.0H×2.6W×0.3Z  
electrodes used: 0.4mm-width gold-plated vs.  
no pattern processed gold plated  
no holder

**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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