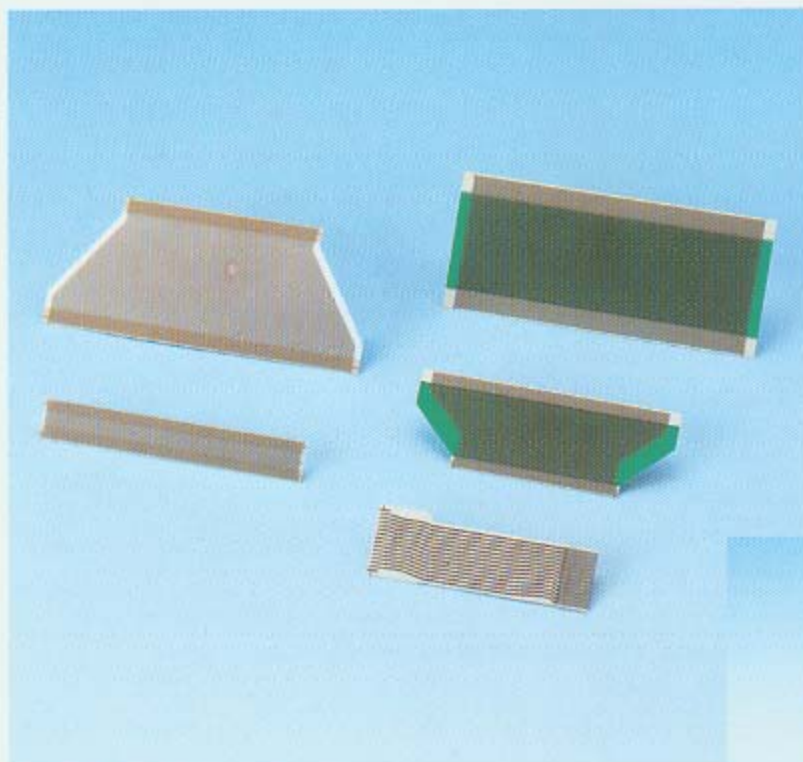


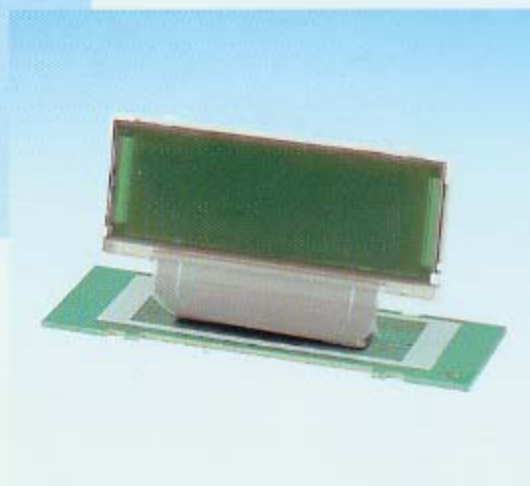
Shin-Etsu Inter-Connector®

JS TYPE

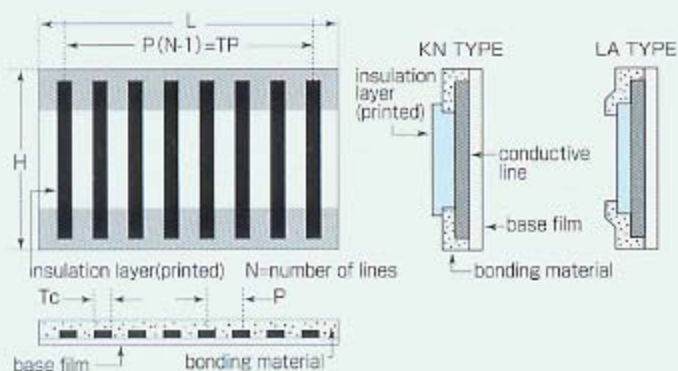


FEATURES

JS-type Inter-Connectors consist of conductive silver/carbon traces printed on polyester film. Adhesive material, in which conductive particle is dispersed, is applied to the traces to heat-seal the connectors to other components. The adhesive type has the alternative of KN or LA. KN-type is a semi thermosetting adhesive and LA-type is a thermosetting adhesive. Due to the heat resistance and peel-strength of LA-type, this type can be used for automotive applications. Besides, the component contains no chlorine. Both KN and LA are compatible with ZIF connector, which is easily inserted and extracted with some force.



OUTLINE DIMENSIONS



DIMENSIONS AND TOLERANCES

Item	Unit	Standard
Size L × H*	mm	100 × 150 max.
Dimension tolerance	Length(L) Height(H)	±0.25 H ≤ 120 ±0.25 H > 120 ±0.5
Width of Conductor (Tc)	mm	0.1min.
Pitch tolerance	mm	±0.05(P < 1.0) ±0.03(0.2 ≤ P ≤ 0.4) ±0.10(P ≥ 1.0)
Accumulative pitch(TP)	mm	±0.05(P ≤ 0.4, TP ≤ 100) ±0.10(P > 0.4, TP ≤ 100)
Thickness of base film(T)	µm	25
Pitch (P)	mm	≥ 0.2
Thickness of cover film(option)	µm	12 or 25

*Max. sizes depend on pitch.

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

CONSTRUCTION

	JS-LA Type	JS-KN Type
Base film	Polyester	Polyester
Conductive lines	Thermosetting resin silver/carbon ink	Thermosetting resin silver/carbon ink
Adhesive	Thermosetting synthetic rubber	Semi-thermosetting synthetic rubber
Conductive particles	Gold plated plastic particles	Gold plated carbon particles
Insulation layer*	Printed UV setting resin	Printed thermoplastic synthetic rubber

*Optional: polyester cover film, polyester stiffener for ZIF connector.

BASIC PROPERTIES

Item	KN Data	LA Data	Conditions
Conductive resistance	$\leq 0.5\Omega/\square$	$\leq 0.5\Omega/\square$	10~30°C, 30~80%RH
Insulation resistance	$\geq 100M\Omega$	$\geq 100M\Omega$	10~30°C, 30~80%RH
Peel strength (Initial)	$\geq 2.94N/cm$	$\geq 4.90N/cm$	90° peel, 100mm/min.
Storage time	6 months max.	6 months max.	Sealed, 0~40°C, RH $\leq 50\%$

BONDING CONDITIONS RANGE

Type	JS-LA Type	JS-KN Type
Adhesive temperature	160°C ~ 190°C	140°C ~ 170°C
Pressure	4.0 ± 0.5Mpa	3.5 ± 0.5Mpa
Time	6 ± 2 seconds (Adhesive temp. $\geq 160^\circ\text{C}$)	7 ± 2 seconds (Adhesive temp. $\geq 140^\circ\text{C}$)

*This temperature should be applied only to the bonding area. Surfaces should be free of dust and contamination.

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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