

Hirose Korea B to W Connector

KN12**-Series

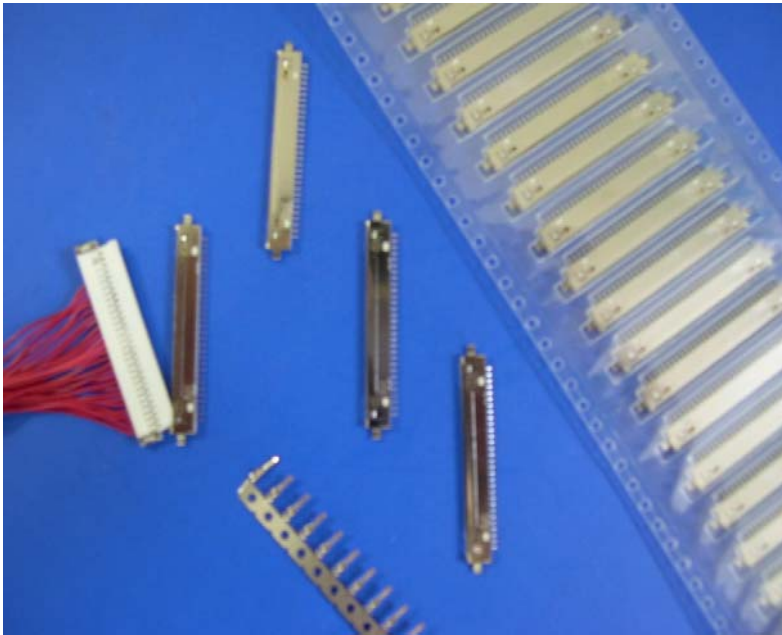
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KN12**- series

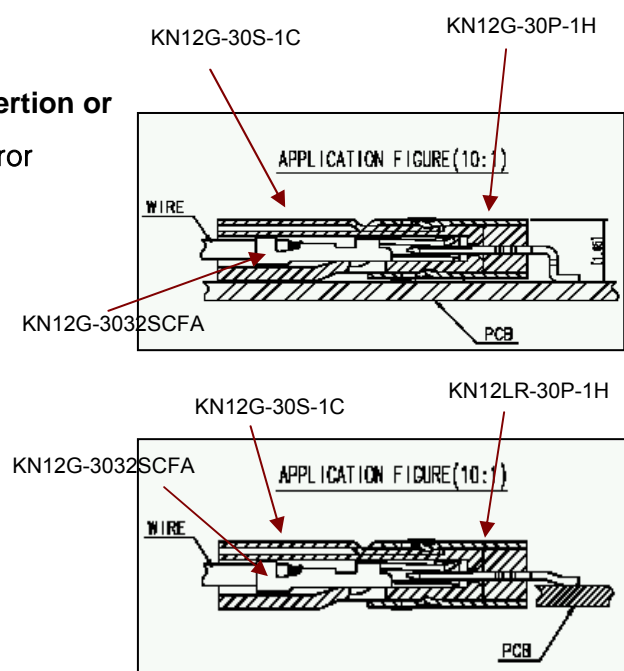


■ Features

1. It's a LCD interface conductor that is possible to mount automatically.
2. It's covered with metal shell so that has a excellent charavteristic of impedance and strength.
3. **There're not inferior products in case of insertion or separation and It's possible to prevent an error of insertion**
4. It's a Pb-free product comply with environmental regulations.
5. Applicable wire : AWG#30~#32

■ Applications

LCD , LCD-TV , PDP , PAD etc..... DISPLAY



■ Specifications

Rating	Current AWG30 : 0.5A AWG32 : 0.3A	Operating temperature range	Storage temperature range
	Voltage 100V AC	- 35 °C ~ + 85 °C	- 10 °C ~ + 60 °C

Item	Specification	Condition
1. Insulation Resistance	500MΩ Min	Measured at 100V DC
2. Withstand voltage	Neither shot or insulation breakdown	300V AC for 1 minute
3. Contact Resistance	30mΩ Max	Measured at 20mV
4. Mechanical operation	Contact Resistance : 30mΩ Max	30 Time insertions and extractions.
5. Moisture Resistance	Temperature : 40±2 °C	Contact Resistance : 30mΩ Max Insulation Resistance : 500MΩ Min
	Relative Humidity : 90~95%	
	Duration : 96Hr	
6. Resistance to Soldering heat	Reflow : 183°C MIN. 90~120s, 250±5°C 30±5s	No deformation of components affecting performance.

■ Plating specifications and row materials by parts

Part		Material	Finish	Remarks
PLUG (HEADER)	CASE	POLYAMIDE/LCP	NATURAL	UL94V-0
	Contact	PHOSHOR BRONZE	Au/Sn over Ni	-
	SHELL	STAINLESS STEEL	Ni	-
SOCKET (HARNESS)	Socket	POLYAMIDE	NATURAL	UL94V-0
	SHELL for Socket	STAINLESS STEEL	Ni	-
	Crimping Contact for Socket	PHOSPHOR COPPER	Au over Ni	-

※ Since Satisfy with Reflow Temperature MAX 250°C, Fit for use at Lead-free Soldering.

※ RoHS Compliant Suitable.

■ Formation of part number.

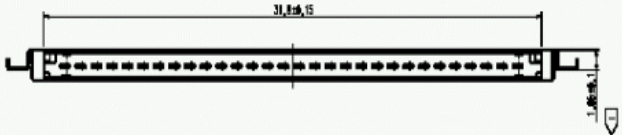
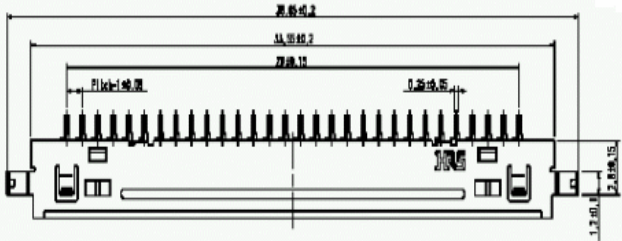
● Connector **KN12 # - 30 P - 1 H**

①	Serial Name	KN12
②	G	Pitch : 1 mm / On Board Type
	LR	Pitch : 1 mm / Offset-Revers Type
③	No. of Contact	30 PIN
④	Contact Division	P : Plug S : SOCKET
⑤	Contact Pitch	1 mm
⑥	Contact type	H(SMT : horizontal mount type)
		C(Crimping sochet)

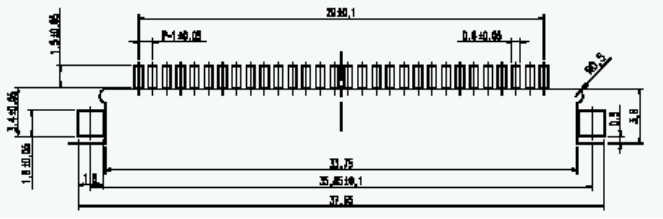
● Contact **KN12G - 3032 SCFA**

①	Applicable cable size	3032 : AWG 30~32
②	Packing Type	SCF : Socket contact/reel

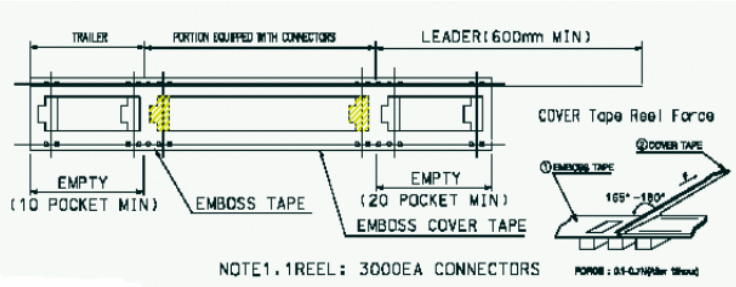
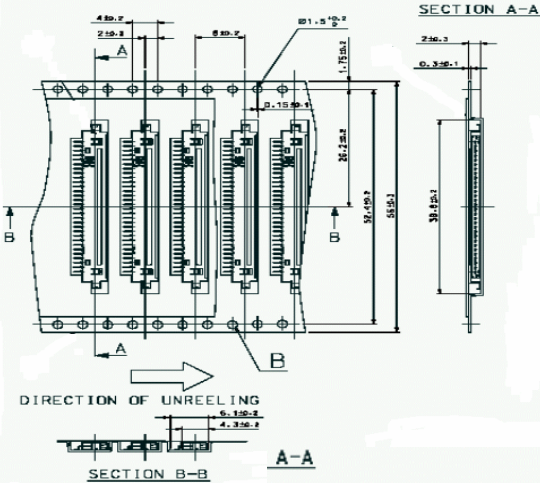
KN12LR-30P-1H



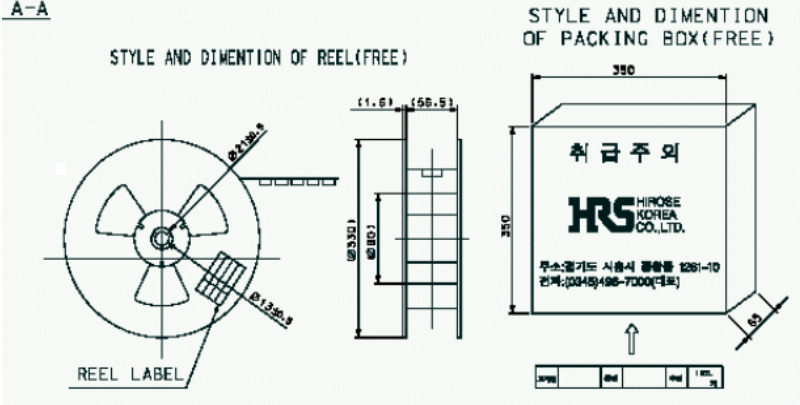
Specifications of Package.



PCB LAY OUT

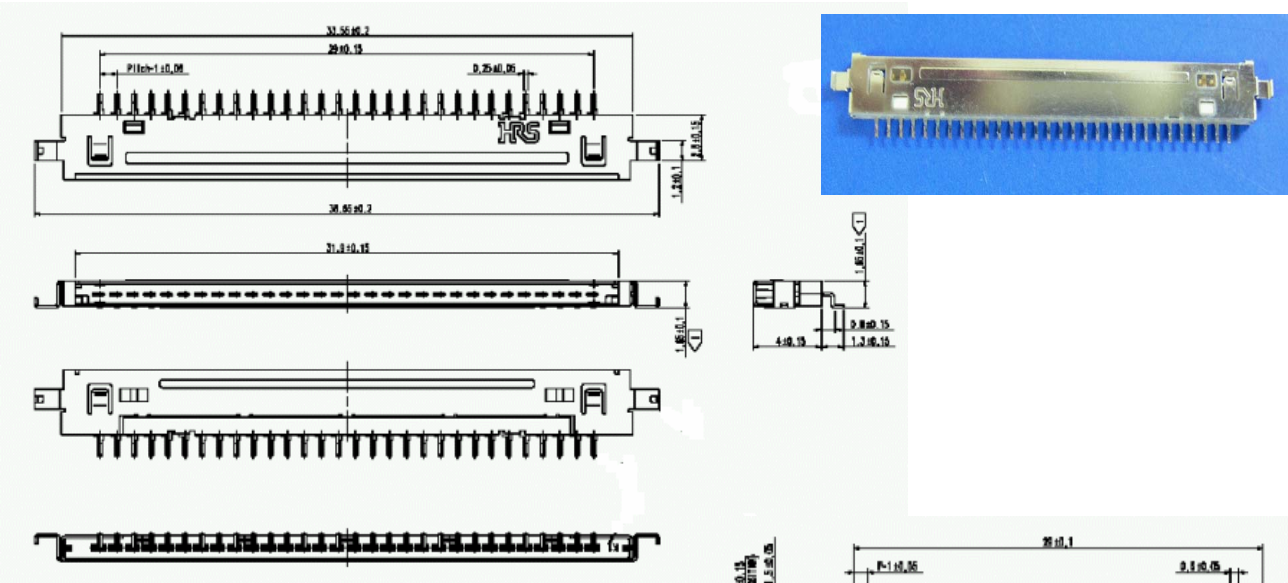


NOTE 1. REEL: 3000EA CONNECTORS

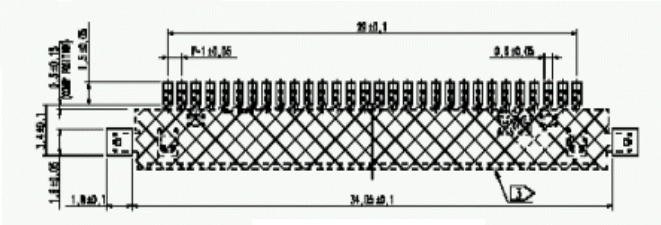


Product Name	Pitch	Package	Remark
KN12LR-30P-1H	1mm	REEL	3000ea

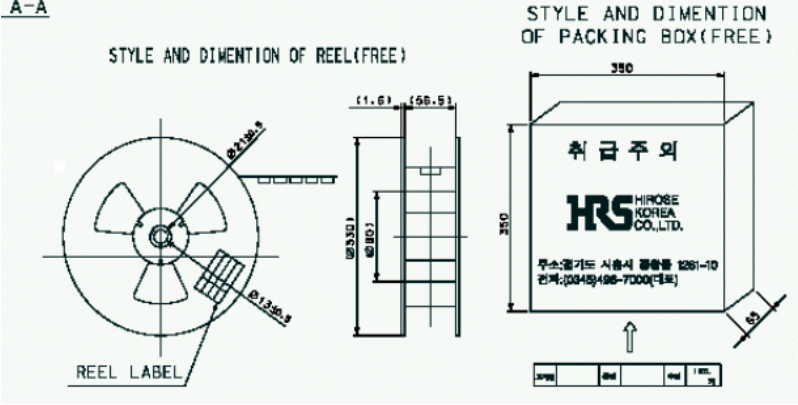
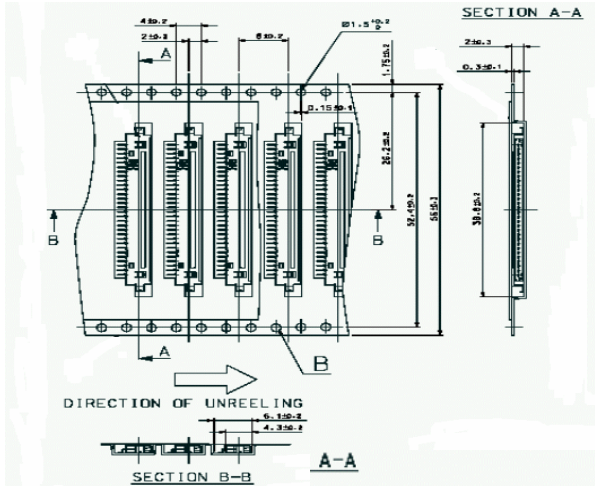
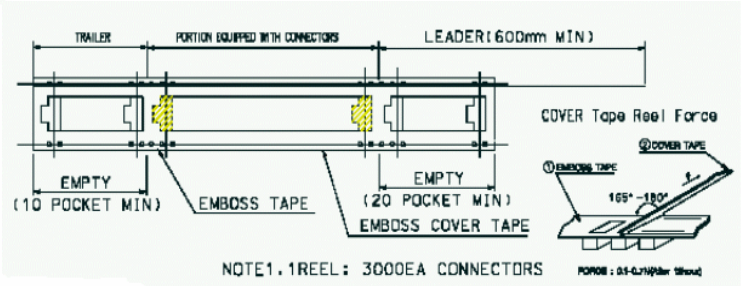
KN12G-30P-1H



Specifications of Package.

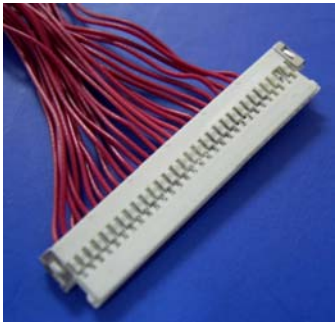
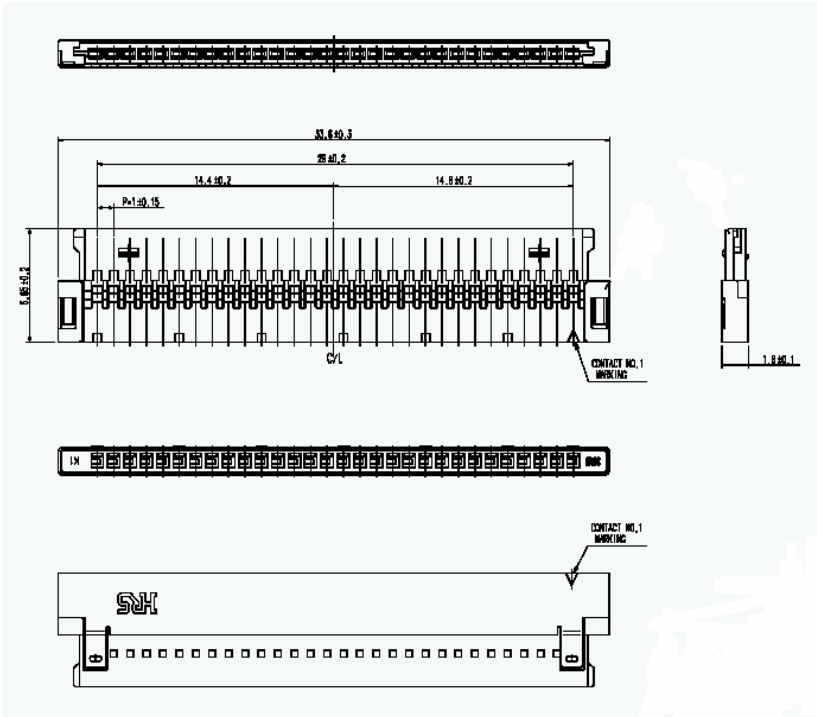


PCB LAYOUT



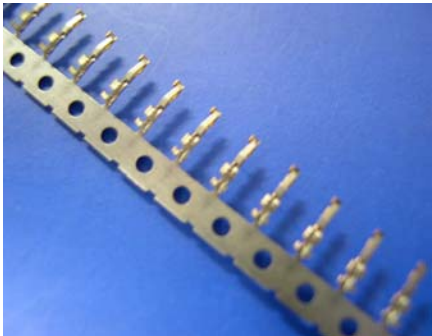
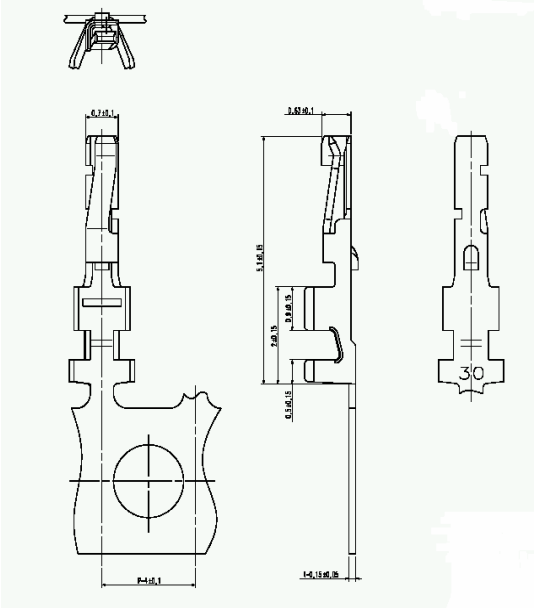
Product Name	Pitch	Package	Remark
KN12G-30P-1H	1mm	REEL	3000ea

KN12G-30S-1C



Product Name	Pitch	Package	Remark
KN12G-30S-1C	1mm	Pack/BOX	500ea

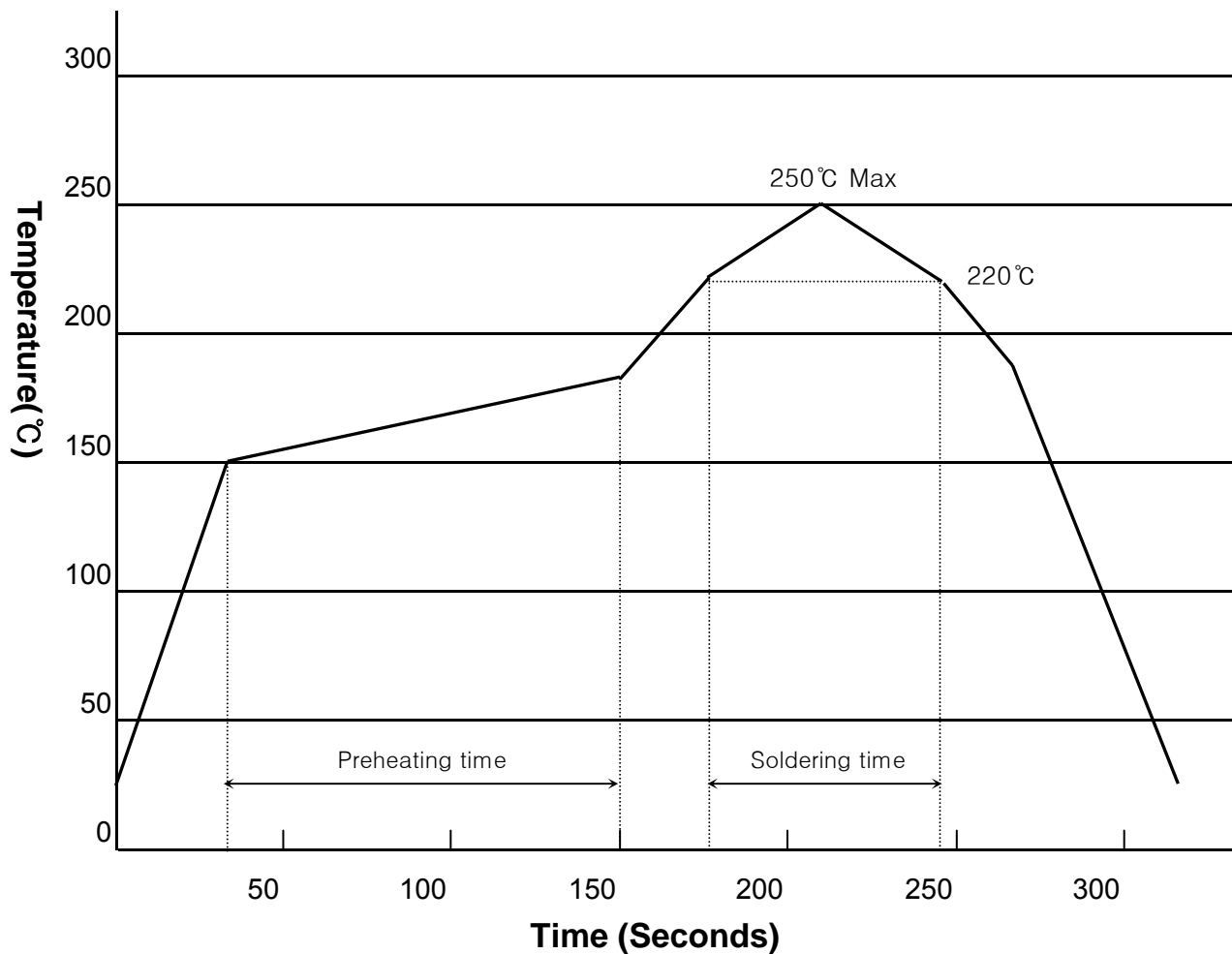
KN12G-3032SCFA



Product Name	Wire Size	Package	Remark
KN12G-3032SCFA	AWG#30~32	Reel	10,000pcs/Reel

■ Reflow Profile

Using Lead-free Solder Paste



Recommended Application Conditions

Reflow System: IR reflow

Solder: Cream type Sn / 0.3 Ag / 0.5 Cu

Flux content 12%wt

Metal mask thickness: 0.12mm

Preheating time: 150°C~180°C, 90±30seconds

Soldering time: 250°C Max

220°C Min, 60±10seconds