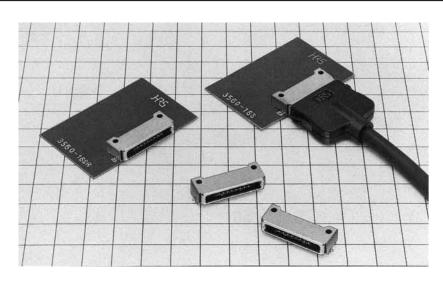
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative. 连接器网一一汇勤电子旗下网站,一站解决电气信号连接问题 http://www.Ljqw.top/ TEL:400-022-7728

HS[®] 3500 Series

Long-Life I/O Connectors

These miniature, shielded interface connectors were designed for use with portable terminal equipment. They are suited to a wide range of applications including hand-held terminals and PDA equipment because of excellent insertion/removal durability (20,000 times).



FEATURES

- (1) Long-life connectors have an insertion/removal life of 20,000 cycles.
- (2) The structure of the contacts is the highly reliable, two-contact bellows type.
- (3) The lock uses a snap-lock system which relieves the stress that accompanies forceful removal, making these connectors resistant to external forces such as sudden pulls of the cable.
- (4) Release of the lock is achieved with a simple operation of the push buttons at the left and right sides of the plug. A positive lock sensation is provided by a click locking sound when the connector engages.
- (5) The miniature, lightweight design (i.e., about 2g for a 16-conductor receptacle) makes these connectors

effective in reducing the overall size and weight of terminal equipment.

- (6) Use of a new box-bending structure for the metal shell supports EMI protection and makes this a tough connector.
- (7) ESD protection is provided by the metal shell-not the cover (unless it is metal plated).
- (8) The board mounting system uses 0.8-mm spaced single row SMT for easy mounting.
- (9) Suitable boards can be from 0.8 to 1.6mm thick, affording a wide selection of board thicknesses.
- (10) There are two types of plug-side wiring systems, the pressure welding type designed to save labor in wiring, and the solder type which enables an arbitrary selection of the type of cable.

APPLICATIONS

Hand-held terminals, PDA equipment, notebook computers, mobile communications equipment, office automation equipment, measuring instruments, etc.



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Major Specifications

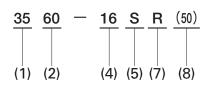
Item	Rated Value			
Operating temperature range	-40℃ to +85℃			
Rated voltage	125VAC			
Rated current	1A			
Insulation resistance	$1,\!000M\Omega$ or greater/ $250VDC$			
Withstand voltage	350VAC for 1 minute			
Contact resistance	$40 \mathrm{m}\Omega$ or less			
Insertion/removal life	20,000 times			

Materials and Processing

I	tem	Material	Processing	
	Insulation	Synthetic resin	Black color UL94V-0	
Receptacles	Contacts	ontacts Copper alloy Selective		
	Shell	Stainless steel	Tin plating	
Plugs	Insulation	Synthetic resin	Black color UL94V-0	
	Contacts	Copper alloy	Selective gold plating	
	Shell	Stainless steel	_	
	Lock spring	Stainless steel	—	
	Cover	Synthetic resin	Black color	

Structure of the Product Number

Receptacle Connectors



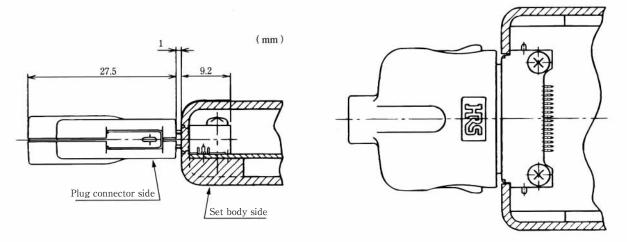
• Plug Connectors

35	30	Α	—	16	Р	_	CV	(50)
(1)	(2)	(3)		(4)	 (5)		(6)	 (8)

- (1) Series No.: 35
- (2) Termination style60: Right-angle SMT type30: Discrete wire pressure welding type40: Solder type
- (3) Suitable wire A: AWG 28
- (4) Number of contacts
- (5) Type of opening portionP: Plug connectorS: Receptacle connector
- (6) Cover formCV: Standard type
- (7) Engagement direction of the connector No symbol: Forward engagement R: Reverse engagement
- (8) Specification contents(50): Specifications support RoHS

Diagram of Connector When Engaged

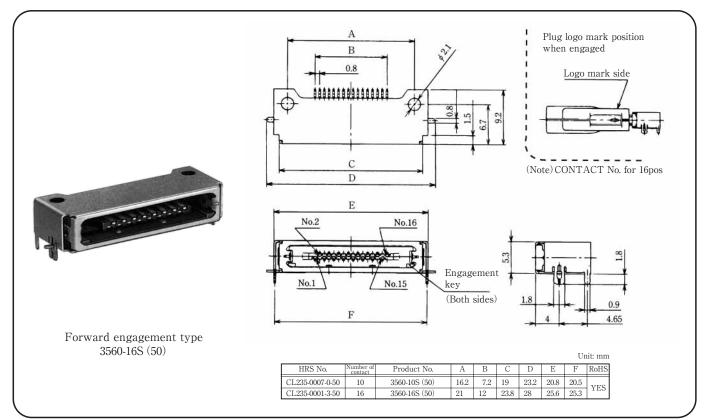
(Please see information about the connector mounting method.)



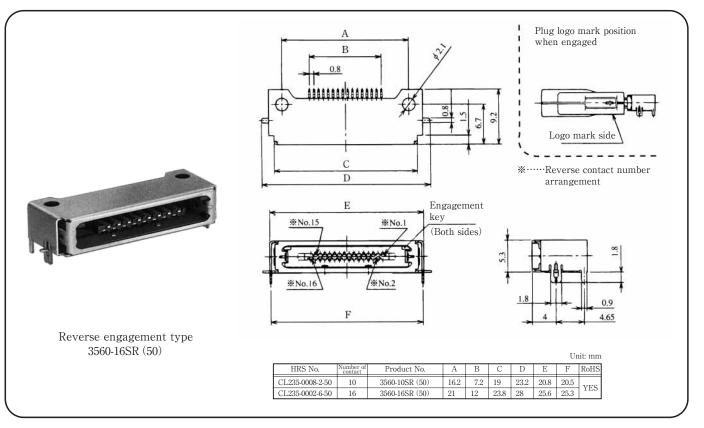
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RECEPTACLE CONNECTORS FORWARD ENGAGEMENT TYPE



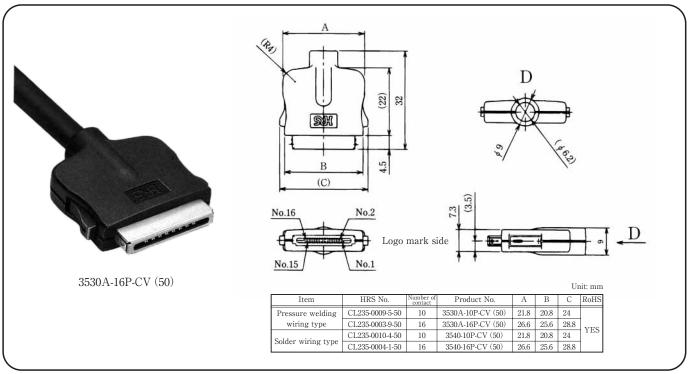
REVERSE ENGAGEMENT TYPE

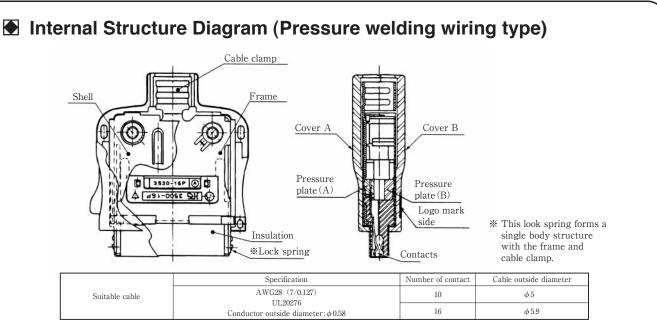


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PLUG CONNECTORS

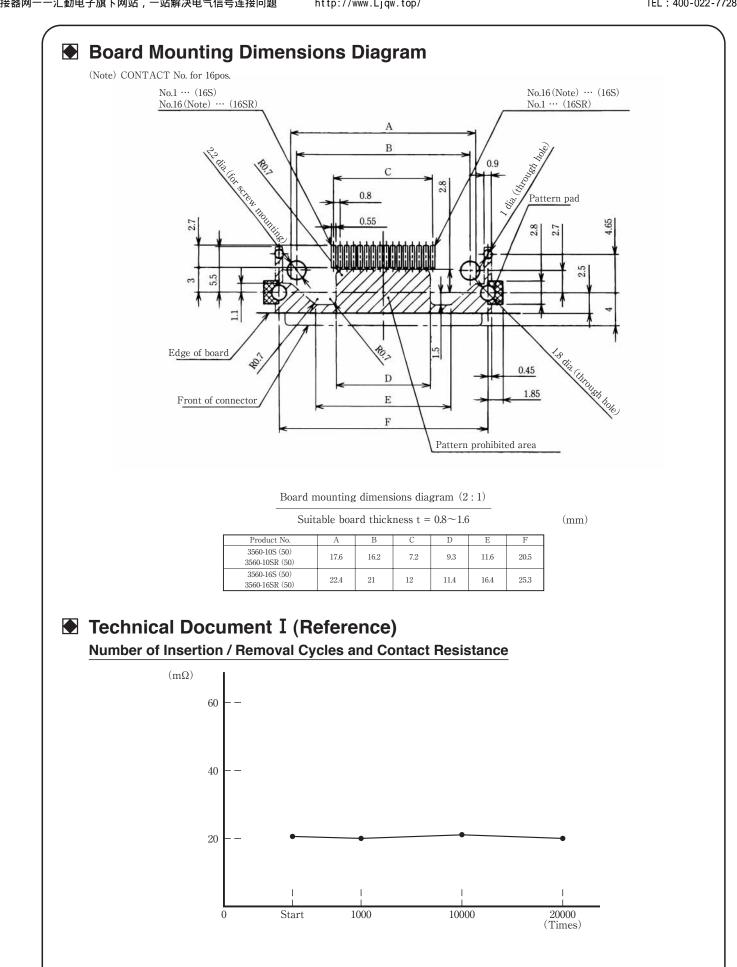




Harness tool

The sec	Number of	Product No.	HRS No.	Tools required for the harness		
Item	contact		HKS NO.	Pressure welding wiring	Solder wiring	
Wire forming palette	common	3530/CA-MD	CL902-0345-9	0	—	
Set palette	10	3530-10/SP-MP	CL902-2060-0	0	_	
	16	3530-16/SP-MP	CL902-2009-2			
Remaining length cutting jig	common	3530/CU-MP	CL902-0346-1	0	—	
Pressure welding jig	common	3530/ID-MP	CL902-0347-4	0	_	
Cable caulking jig	10	3530-10/CA-MP (01)	CL902-2061-2 (01)	0		
	16	3530-16/CA-MP (01)	CL902-0348-7 (01)	1 1	0	

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Technical Document I

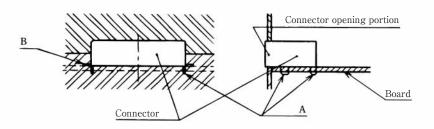
Connector Mounting Method

1. Soldering Method

This connector and board mounting method uses soldering at the four dip locations marked A at the left and right sides as well as the two surface mounting locations marked B at the left and right sides for a total of six locations.

Location A represents board through holes of 1.8mm diameter and 1mm diameter, whereas location B represents pads of 2.8×1.85 mm width. (See the board mounting diagram.)

As illustrated in the diagram below, the opening portion of the connector is either inserted into the body of the set or inserted into a rectangular hole of the set.



2. Soldering and Screw Fastening Method

When there is not sufficient strength with the connector opening portion at the set, the mounting holes C (as in Figure 1) at the left and right sides of the connector are used after the solder mounting to further fix the connector with M2 screws.

The connector can be fixed to just the board with this method (as in Figure 2); however, in consideration of connector twisting, the most effective mounting method is to fix the connector to both the body and the board with screws as illustrated in Figures 3 and 4.

