

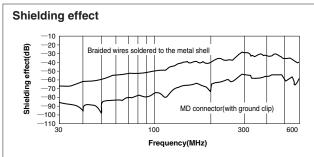
Miniature circular connectors

The extremely compact MD miniature circular connector has an outside diameter roughly half that of conventional circular DIN connectors. The connector's contact exclusively designed by JST dramatically reduces assembly time while improving contact reliability. The MD connector's shielding is superb. All you need to do is crimp the connector ground clip over the cable's braided shielding wire. Simple and reliable, JST's MD connector is well suited for the production of high-density office automation equipments as well as audio and video products.

- Crimp contact with integral construction for improved reliability
- Easy assembly without using special tools
- Simple braid-to-connector assembly and effective EMI protection

Standards

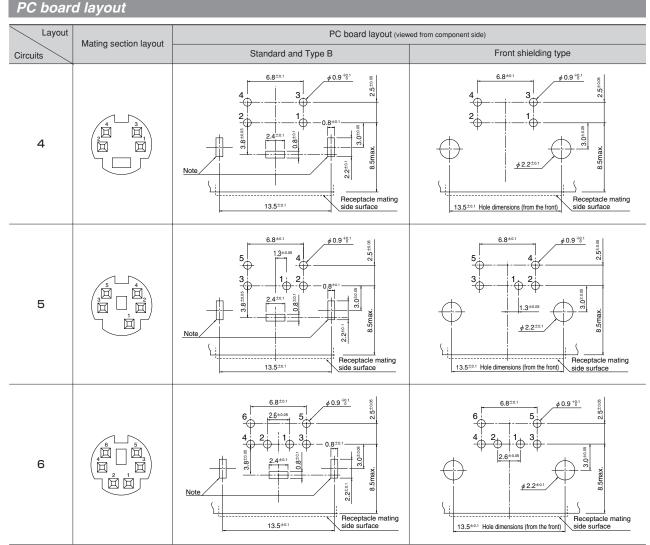
- Recognized E60389
- G: Certified LR20812



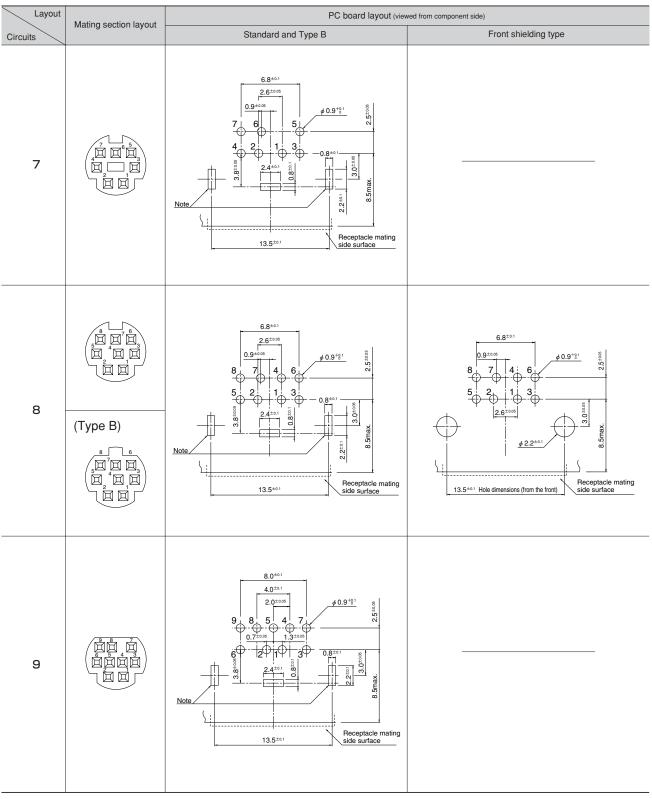
•The shielding effect differs depending on the wire specifications.

* Compliant with RoHS.

- * Refer to "General Instruction and Notice when using
- Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.







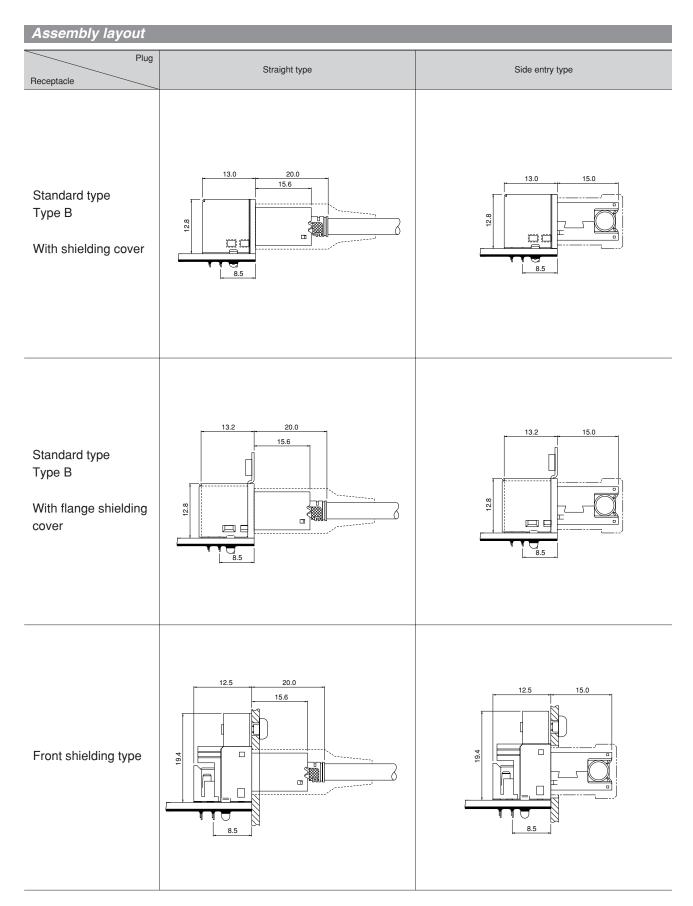
Note: 1. The two holes are necessary when installing a shielding cover.

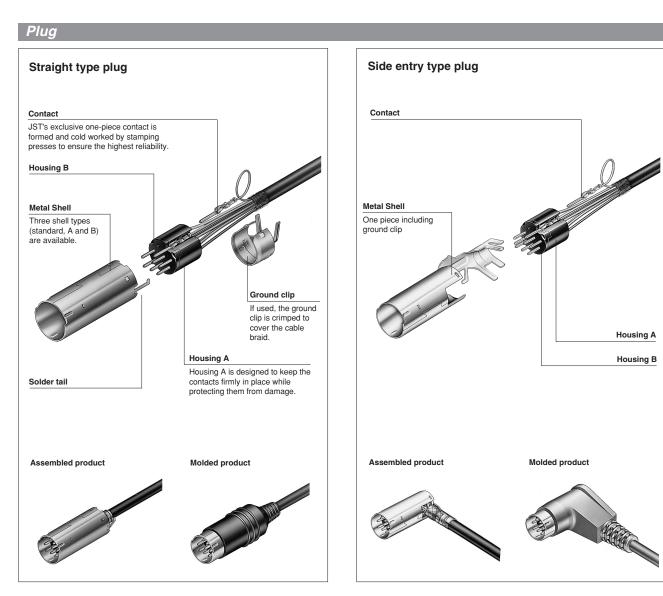
- 2. Tolerances are non-cumulative: ±0.05mm for all centers.
- 3. Hole dimensions differ depending on the kind of PC board and piercing method. The dimensions above should serve as a guideline.

For details, contact JST.

4. The layout drawing is viewed from the receptacle mounting side.

5. When using a receptacle with shielding cover or with flange shielding cover, the pattern should be designed to connect the shielding cover and the shielding tube, if necessary. (No need for the front shielding cover.)





Specifications-

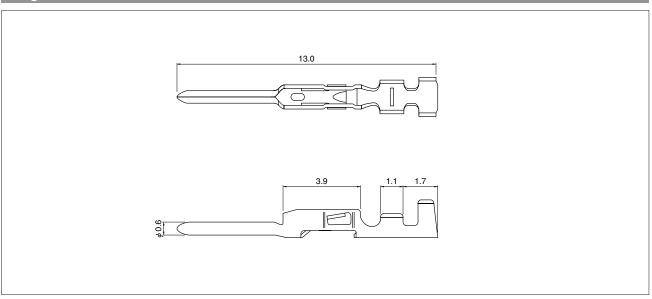
Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) Phosphor bronze, tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated
Housing A, B	PBT, UL94V-0, black
Metal shell	Steel, nickel-plated
Ground clip	Brass, nickel-plated

Characteristics

Current rating	1.0A, AC, DC (AWG#26)
Voltage rating	50V, AC, DC
Temperature range	-25°C \sim +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value: 100m Ω max. After environmental testing: 300m Ω max.
Insulation resistance	50MΩ min.
Withstanding voltage	500V AC/minute
Applicable wire	AWG #30~#24

Plug contact



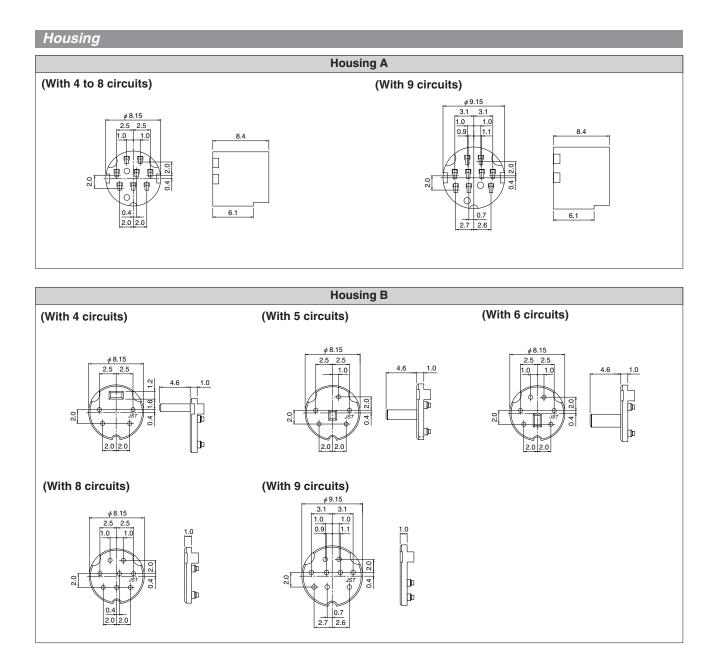
Model No.		Applicable wire			O'the formal	
Gold-plated (flash)	Silver-plated	Tin-plated	mm ²	AWG #	Insulation O.D. (mm)	Q'ty / reel
MD-SP2240	MD-SP2270	MD-SP2290	0.06~0.13	30~26	0.7~1.1	10,000
MD-SP1240	MD-SP1270	MD-SP1290	0.13~0.2	26~24	1.0~1.2	10,000

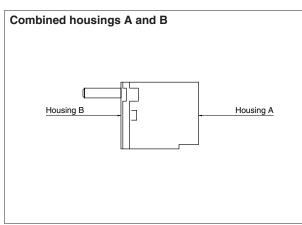
RoHS compliance Gold-plated products display (LF)(SN) on a label.

Model number identification

	MD - S	Ρ	2	2	40
• Series name					
Product from: S Chain, B Loose piece					
Type of contact: P Plug contact					
• Applicable wire: 1 AWG #26 ~ #24 2 AWG #30 ~ #26					
Material: 2 Phosphor bronze					
• Finish					
40 Gold-plated (flash)					
44 0.76 micron gold-plated 45 1.3 micron gold-plated					
70 Silver-plated					
90 Tin-plated (reflow treatment)					

*Contact JST for details.

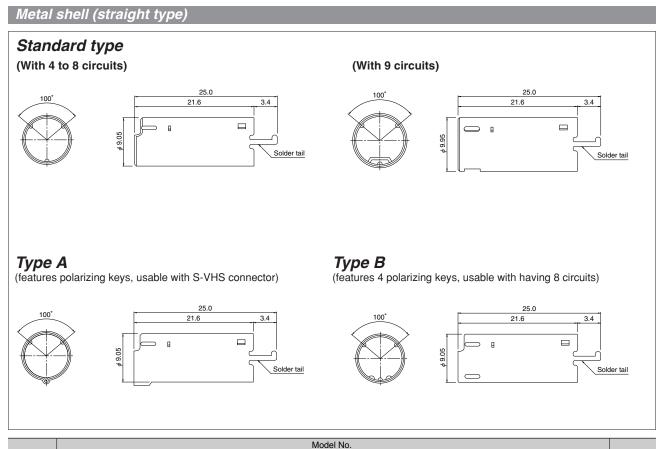




Housing A is used with housing B. Housing B must have the same number of orifices as there will be contacts in the connector. However, housing A can have a greater number of cavities (but never less). Thus in applications in which a user may require MD connectors with different pin counts, only one kind of "A" housing needs to be inventoried - the one with the highest pin count. For more details regarding such combinations, contact JST.

Circuits	Mode	Q'ty / box	
Circuits	Housing A	Housing B	
4	MD-PI 4A	MD-PI 4B	1,000
5	-	MD-PI 5B	1,000
6	MD-PI 6A	MD-PI 6B	1,000
8	MD-PI 8A	MD-PI 8B	1,000
9	MD-PI 9A	MD-PI 9B	1,000

RoHS compliance Note: MD-PI5B is not CSA certified.

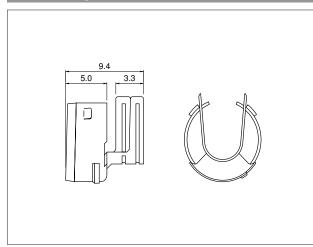


			Model No.					
	Circuits	Standard		Type A (features three polarizing keys)		Type B (features 4 polarizing keys8 circuits only)		Q´ty / box
		With solder tail	Without solder tail	With solder tail	Without solder tail	With solder tail	Without solder tail	
	4~8	MD-PS8T	*MD-PS8T1	*MD-PS8AT	*MD-PS8AT1	*MD-PS8BT	*MD-PS8BT1	750
_	9	MD-PS9T	*MD-PS9T1	_	_	_	_	750

RoHS compliance

*Marked products are not CSA certified.

Ground clip

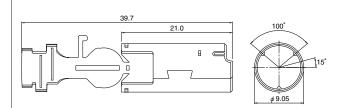


Circuits	Model No.	Applicable cable O.D.(mm)	Q´ty / reel
4 0	MD-PCC8T-S1	2.7~3.8	1,000
4~8	MD-PCC8T-S2	4.3~5.5	1,000
9	MD-PCC9T-S3	3.6~4.8	1,000

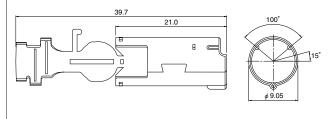
RoHS compliance

Metal shell (side entry type)

Standard type

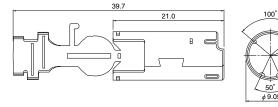


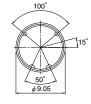
Type A (features polarizing keys, usable with S-VHS connector)

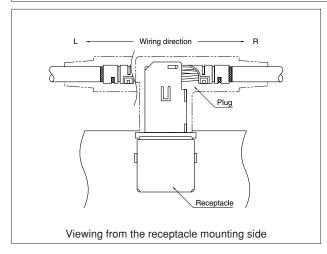


Туре В

(features 4 polarizing keys, usable with housing having 8 circuits)







Tumo	Circuits	Model number		Q'ty / box
Туре	Circuits	R	L	
Standard	4~8	MD-PS8SR	MD-PS8SL	500
A	4~8	MD-PS8ASR	-	500
В	8	MD-PS8BSR	_	500
Polle of	omplianco			

RoHS compliance

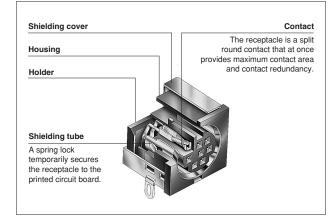
Crimping maching	ine, Applicator
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a	Crimping	Crimping Applicator		a	Cr	
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	Contact	m
MD-PCC8T-S1		MKS-L	MK/MD-PCC8T-S1	APLMK MD-PCC8T-S1	MD-PS8BSR	
WD-PCC01-51		*MKS-SC	-	-	MD-P30D3h	
MD-PCC8T-S2		MKS-L	MK/MD-PCC8T-S2	APLMK MD-PCC8T-S2	MD-PS8SR	
MD-PCC81-52		*MKS-SC	-	-	MD-P585R	A
MD-PCC8T-S3	AP-K2N	MKS-L	MK/MD-PCC8T-S3	APLMK MD-PCC8T-S3	MD-SP12**	A
MD-PCC01-55	AF-NZIN	*MKS-SC	-	-	WD-3P12	
MD-PS8SL		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR	MD-SP22**	
MD-P585L		*MKS-SC	-	-	WD-5P22**	
MD-PS8ASR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR		
WID-P38A5R		*MKS-SC	-	-		

Contact	Crimping		Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies		
MD-PS8BSR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR		
MD-P30D3h	AP-K2N	*MKS-SC	-	-		
MD-PS8SR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR		
WD-P303h		*MKS-SC	-	-		
MD-SP12**	AF-NZIN	MKS-L	MK/MD-SP12	APLMK MD-SP12		
WID-SP12		*MKS-SC	SC/MD-SP12	APLSC MD-SP12		
]	MKS-L	MK/MD-SP22	APLMK MD-SP22		
MD-SP22**		*MKS-SC	SC/MD-SP22	APLSC MD-SP22		

Note: *Strip-crimp applicator

Receptacle (through-hole type)



• Split round contact provides maximum contact area and contact redundancy

The receptacle contact is split to insure redundant connection and is cylindrically shaped to provide maximum contact mating area. The result is a highly reliable connection to the mating pin. This superb contact performance is maintained even after many mating and unmating cycles.

• Flange construction

The flange construction allows the receptacle to be secured on the equipment chassis with screws, ensuring more reliable electrical connection.



Standard type with flange shielding cover

(Standard type/Type B)

• Compact, high-density design

This receptacle has a low profile with a mounting height of just 12.8mm and width of 14.0mm. It takes up little space on the printed circuit board, allowing high-density product design.

Spring locks make it easy to temporarily secure receptacles to printed circuit boards for soldering

solaering

The shielding tubes are equipped with spring locks which can be used to temporarily secure the receptacles to printed circuit boards. This prevents the receptacles from moving and ensures reliable soldering.



Standard type without shielding cover (left) Standard type with shielding cover (center) Type B (applicable to Type B plug) (right)

(Front shielding type)

Front shielding construction

A metal shielding cover integrating the connection part which connects to the plug's shell is used. Because there is no gap between the receptacle and the plug, this construction prevents the entry of space conductive noise.

Effective shielding

With the front shielding construction and the flange construction, the shielding effect is improved by about 15 dB over the conventional models.



Front shielding type receptacle

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated Phosphor bronze, tin-plated (reflow treatment)
Housing / Holder	PBT, UL94V-0
Characteristics	
Current rating	1.0A, AC, DC
Voltage rating	50V, AC, DC
Temperature range	-25°C \sim +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value: 100m Ω max. After environmental testing: 300m Ω max.
Withstanding voltage	500V AC/minute
Applicable PC board thickness	1.6mm
Applicable PC board thickness	

[Standard type/ Type B]

Shielding covor Prass pickel undersected tip/sepper ellev plated	Shielding tube	Brass, nickel-plated (*note)
Blass, fickel-undercoald, in/copper anoy-plated	Shielding cover	Brass, nickel-undercoatd, tin/copper alloy-plated

[Front shielding Type]

Shielding cover Brass, nickel-plated (*note)

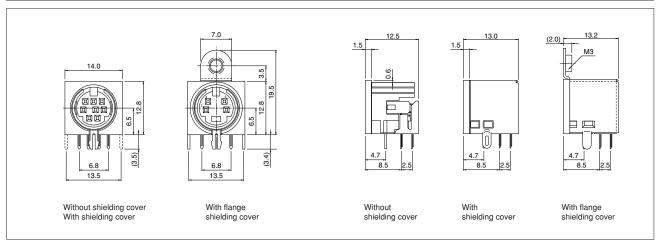
Note: Use soldering flux that is suitable for nickel-plating. Tin plated version is also available.

Model number identification

MD	- S	8	0	00	B - 10
Series name					
Product name: S Receptacle					
• Circuits: 4, 5, 6, 7, 8, 9					
Shielding cover: 0 Without shielding cover 1 With shielding cover 3 With front shielding cover	r				
Flange: 00 Without flange 30 With flange 50 With top flange with nuts					
 Type B indication B Type B (Applicable to Type B plug) BlankStandard type (Applicable to Standard Front shielding type (Applicable to Standard) 					
Finish 10 Gold-plated (flash) 13 0.4micron gold-plated 14 0.76micron gold-plated 70 Silver-plated 90 Tin-plated (reflow treatment)					

Note: Contact JST for special plating requirements.

Standard type / Type B



• Standard type: Without shielding cover

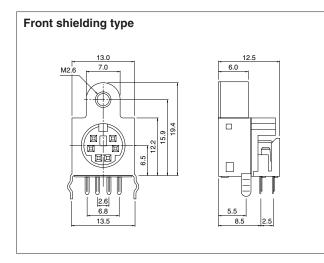
Cir-			Q′ty /	
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
4	MD-S4000-10	MD-S4000-70	MD-S4000-90	200
5	MD-S5000-10	MD-S5000-70	MD-S5000-90	200
6	MD-S6000-10	MD-S6000-70	MD-S6000-90	200
7	MD-S7000-10	MD-S7000-70	MD-S7000-90	200
8	MD-S8000-10	MD-S8000-70	MD-S8000-90	200
9	MD-S9000-10	MD-S9000-70	MD-S9000-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

•	Standard	type:	With	shielding	cover
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Cir-	Model No.			
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
4	MD-S4100-10	MD-S4100-70	MD-S4100-90	200
5	MD-S5100-10	MD-S5100-70	MD-S5100-90	200
6	MD-S6100-10	MD-S6100-70	MD-S6100-90	200
7	MD-S7100-10	MD-S7100-70	MD-S7100-90	200
8	MD-S8100-10	MD-S8100-70	MD-S8100-90	200
9	MD-S9100-10	MD-S9100-70	MD-S9100-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label. Silver-plated/Tin-plated products display (LF) on a label.



• Standard type: With flange shielding cover

Model No.			Q´ty /
Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
MD-S4130-10	MD-S4130-70	MD-S4130-90	200
MD-S5130-10	MD-S5130-70	MD-S5130-90	200
MD-S6130-10	MD-S6130-70	MD-S6130-90	200
MD-S7130-10	MD-S7130-70	MD-S7130-90	200
MD-S8130-10	MD-S8130-70	MD-S8130-90	200
	MD-S4130-10 MD-S5130-10 MD-S6130-10 MD-S7130-10	Gold-plated(flash)receptacle Silver-plated receptacle MD-S4130-10 MD-S4130-70 MD-S5130-10 MD-S5130-70 MD-S6130-10 MD-S6130-70 MD-S7130-10 MD-S7130-70	Gold-plated(flash)receptacle Silver-plated receptacle Tin-plated receptacle MD-S4130-10 MD-S4130-70 MD-S4130-90 MD-S5130-10 MD-S5130-70 MD-S5130-90 MD-S6130-10 MD-S6130-70 MD-S6130-90 MD-S7130-10 MD-S7130-70 MD-S6130-90

RoHS compliance Gold-plated products display (LF)(SN) on a label. Silver-plated/Tin-plated products display (LF) on a label.

• Type B: Without shielding cover

Cir-		Model No.		Q′ty /
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
8	MD-S8000B-10	MD-S8000B-70	MD-S8000B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label.

• Type B: With shielding cover

Cir-		Model No.		Q′ty /
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
8	MD-S8100B-10	MD-S8100B-70	MD-S8100B-90	200

RoHS compliance Gold-plated products display (LF)(SN) on a label. Silver-plated/Tin-plated products display (LF) on a label.

Type B: With flange shielding cover

Cir-				Q′tv /
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
8	MD-S8130B-10	MD-S8130B-70	MD-S8130B-90	200
				-

RoHS compliance Gold-plated products display (LF)(SN) on a label. Silver-plated/Tin-plated products display (LF) on a label.

Front shielding type

Cir-		Model No.		Q′ty /
cuits	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	box
4	MD-S4350-10	MD-S4350-70	MD-S4350-90	200
5	MD-S5350-10	MD-S5350-70	MD-S5350-90	200
6	MD-S6350-10	MD-S6350-70	MD-S6350-90	200
8	MD-S8350-10	MD-S8350-70	MD-S8350-90	200

RoHS compliance Gold-plated products display (LF)(SN) A on a label. Silver-plated/Tin-plated products display — A on a label. (— shows space.)