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Interface



Connectors

MR series

Rectangular Connectors

Outline

The MR series of connectors are small-sized rectangular connectors developed for data terminal equipment. The connector provides highly reliable flat terminals, and has been developed with a view of improving cost efficiency.

Features

- **Provides a dual mechanism of screws and spring-locks to withstand any shock.**
- **Provides a dust-tight mechanism capable of withstanding environments.**
- **Best suited for downsizing equipment due to the robust smaller-size, lightweight, and high density.**
- **Provides a case for relay connections.**

Principal Applications

Factory automation, communications equipment, data terminal equipment, instrumentation equipment, medical equipment, leisure electronic equipment, etc.

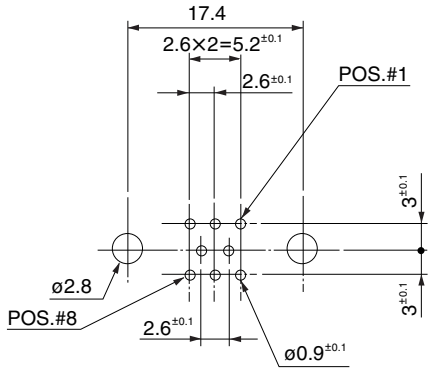
Electrical Characteristics

Rated voltage	**300V AC (r.m.s.)**
Rated current	**3 A/pin**
Insulation resistance	**Over 1000 megohms (at 500V DC)**
Dielectric withstanding voltage	**1000V AC (r.m.s.)**
Contact resistance	**7 (30) milliohms or less** **The value enclosed within parentheses ( ) is the contact resistance for right-angle type connectors.**

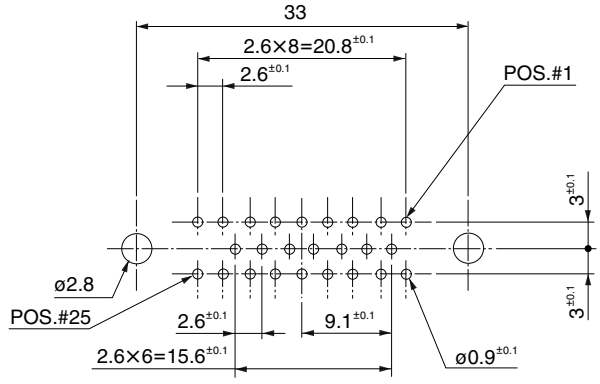
Document Disclaimer

- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.

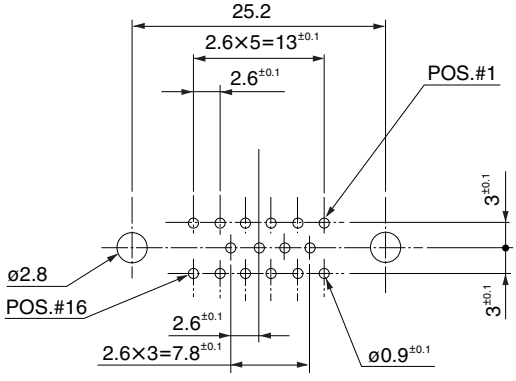
Recommended PCB layout for straight through hole type female connectors



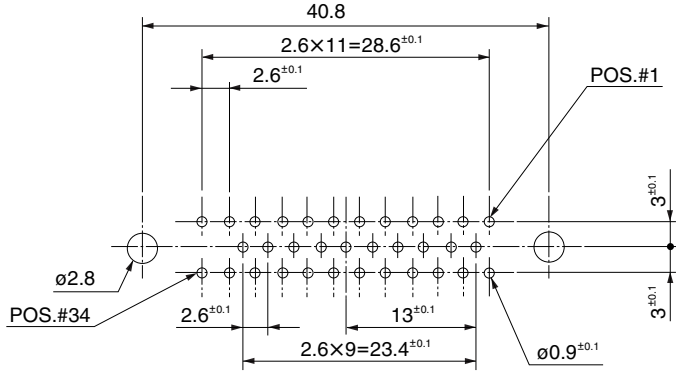
8-contact connector



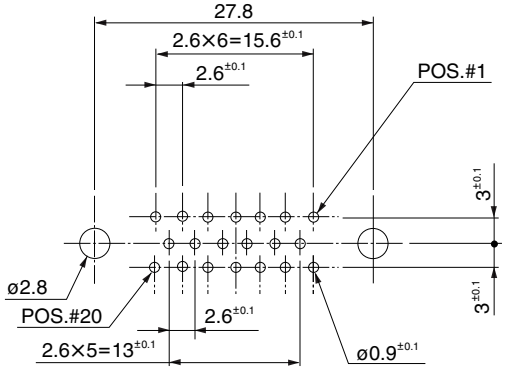
25-contact connector



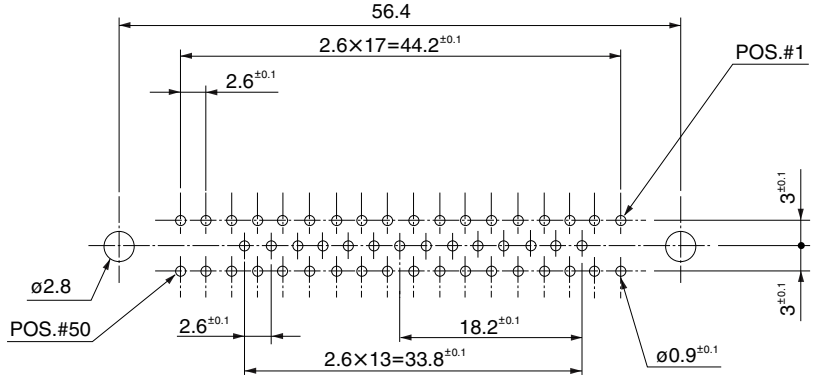
16-contact connector



34-contact connector



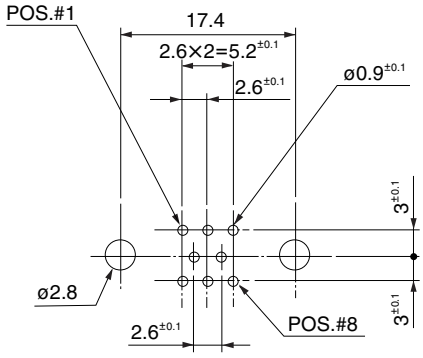
20-contact connector



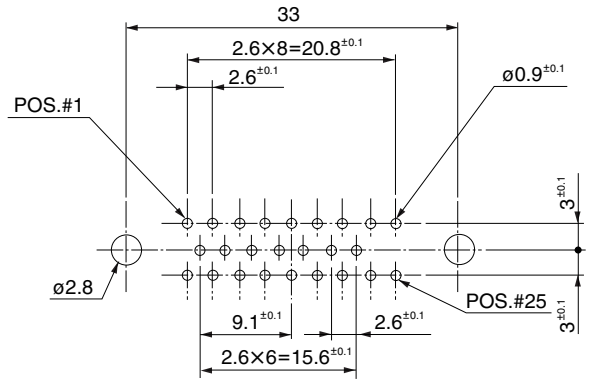
50-contact connector

Note: The dimensions shown in these figures are on the PCB mounted face.

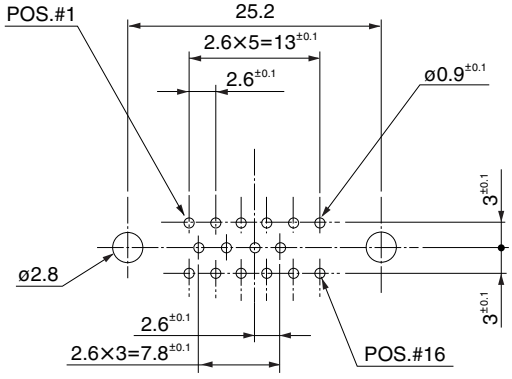
Recommended PCB layout for straight through hole type male connectors



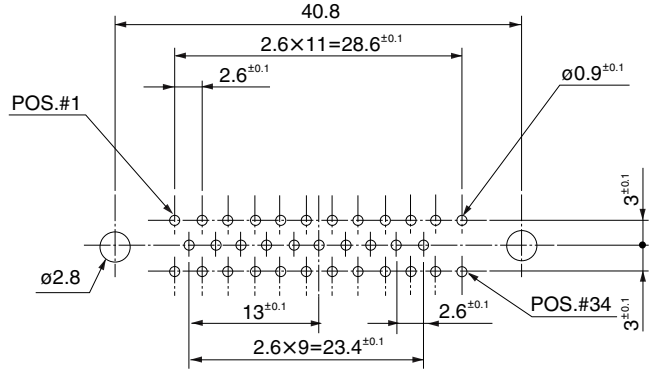
8-contact connector



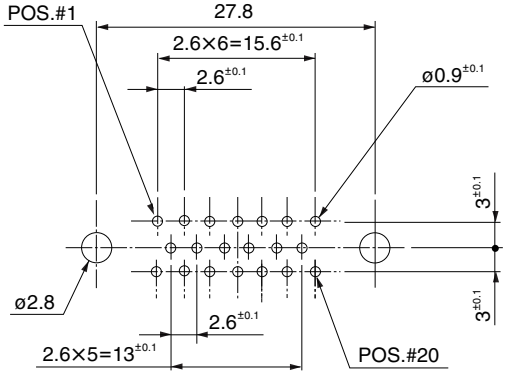
25-contact connector



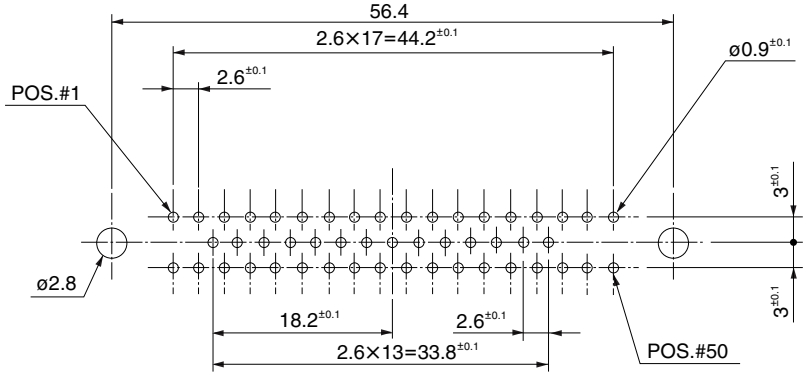
16-contact connector



34-contact connector



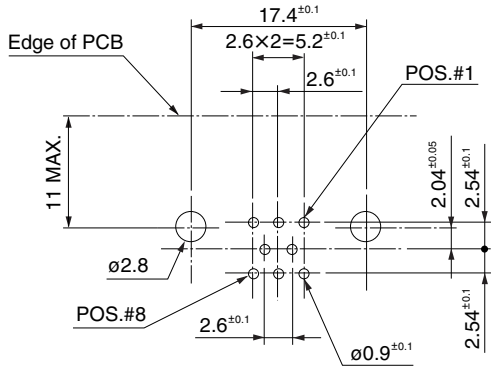
20-contact connector



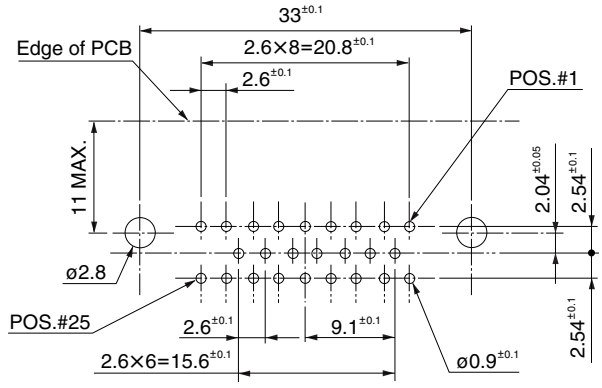
50-contact connector

Note: The dimensions shown in these figures are on the PCB mounted face.

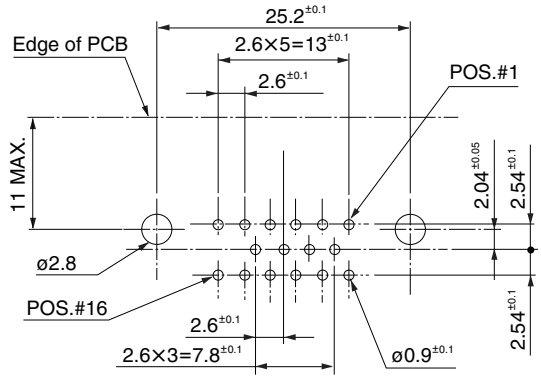
Recommended PCB layout for right-angle through hole type female connectors



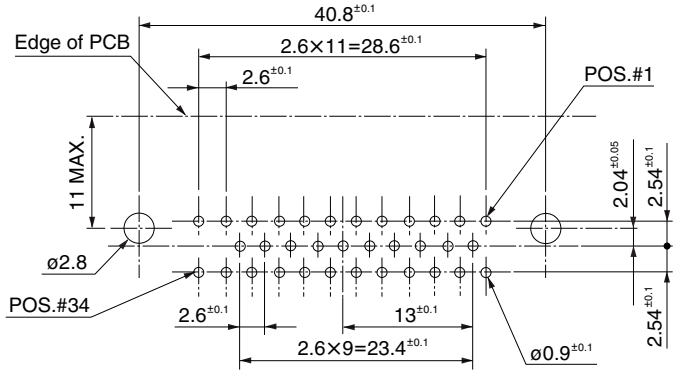
8-contact connector



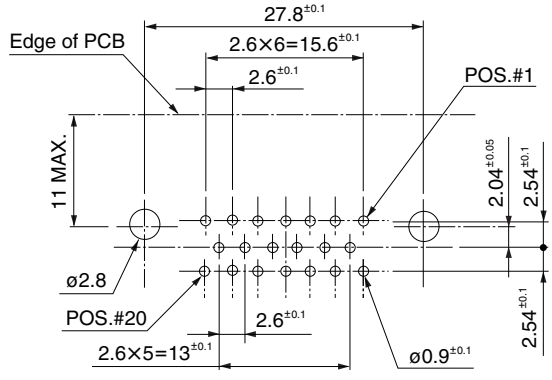
25-contact connector



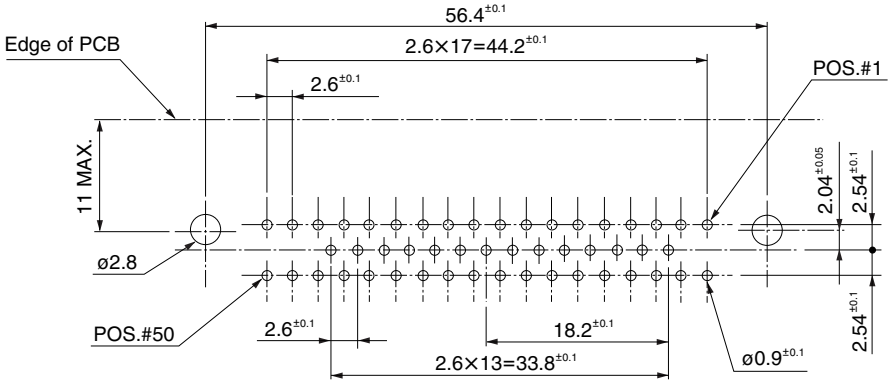
16-contact connector



34-contact connector



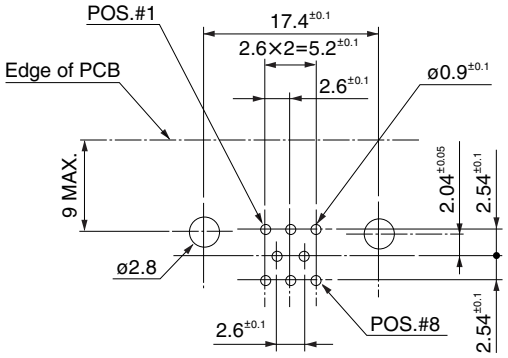
20-contact connector



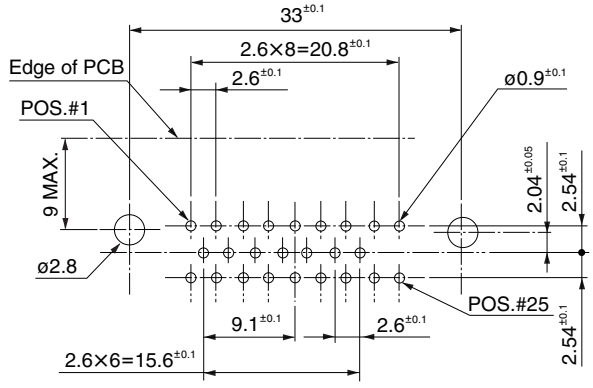
50-contact connector

Note: The dimensions shown in these figures are on the PCB mounted face.

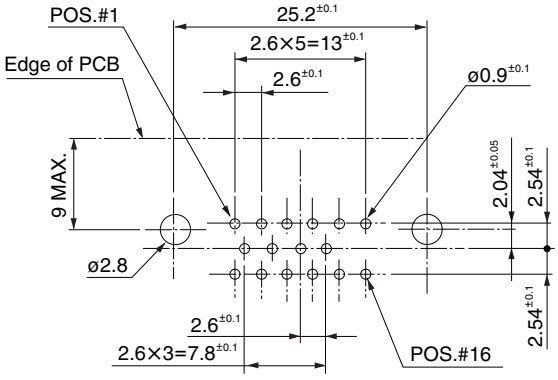
Recommended PCB layout for right-angle through hole type male connectors



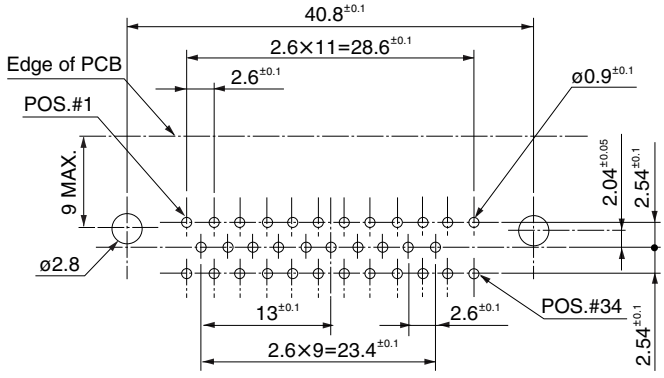
8-contact connector



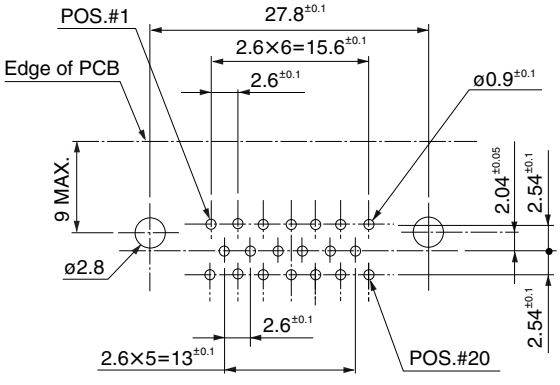
25-contact connector



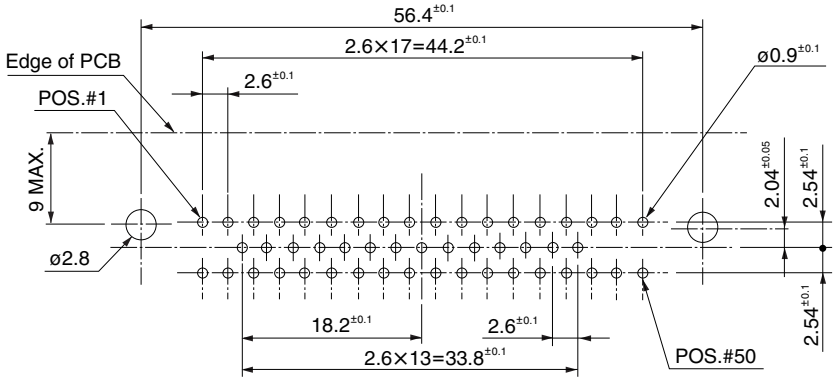
16-contact connector



34-contact connector



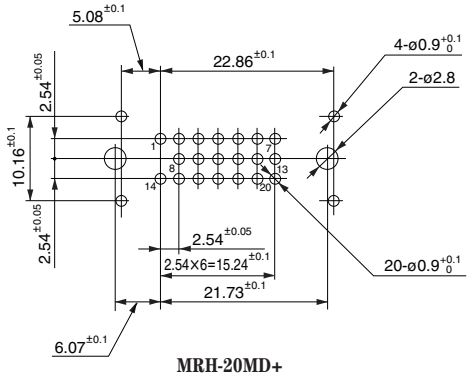
20-contact connector



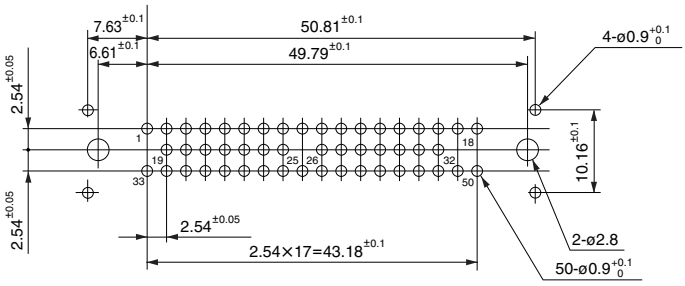
50-contact connector

Note: The dimensions shown in these figures are on the PCB mounted face.

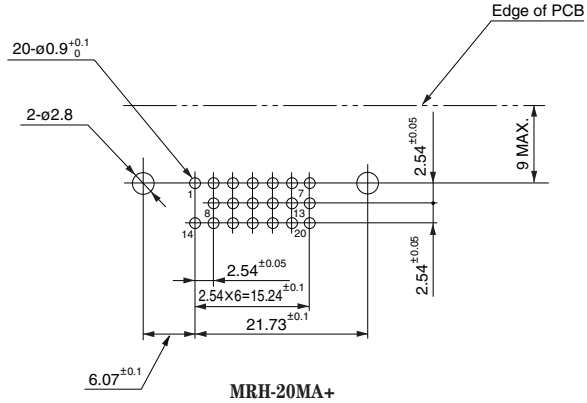
Recommended PCB layout for MRH series through hole type



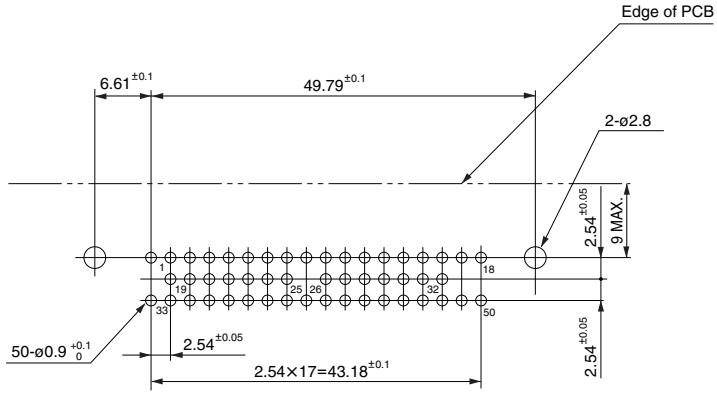
MRH-20MD+
-20RMD+



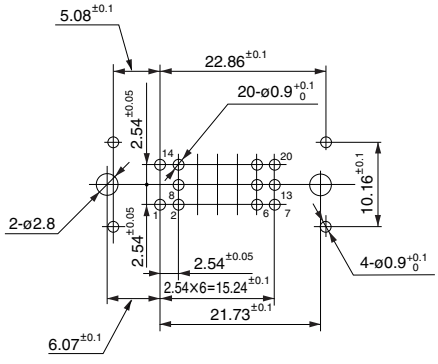
MRH-50MD+
-50RMD+



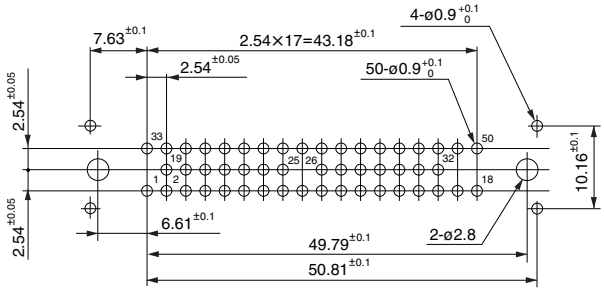
MRH-20MA+
-20RMA+



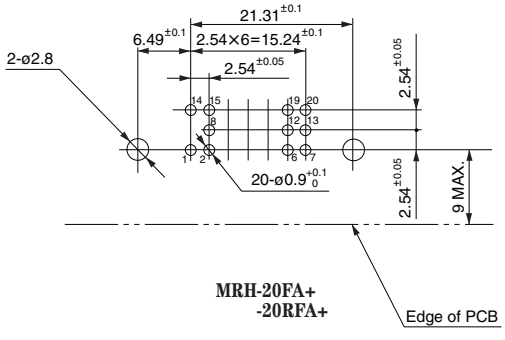
MRH-50MA+
-50RMA+



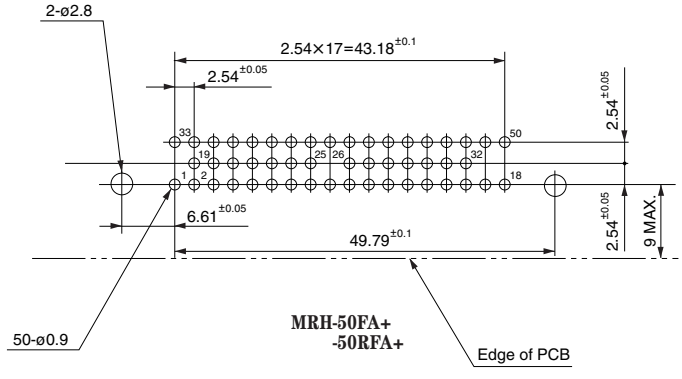
MRH-20FD+
-20RFD+



MRH-50FD+
-50RFD+



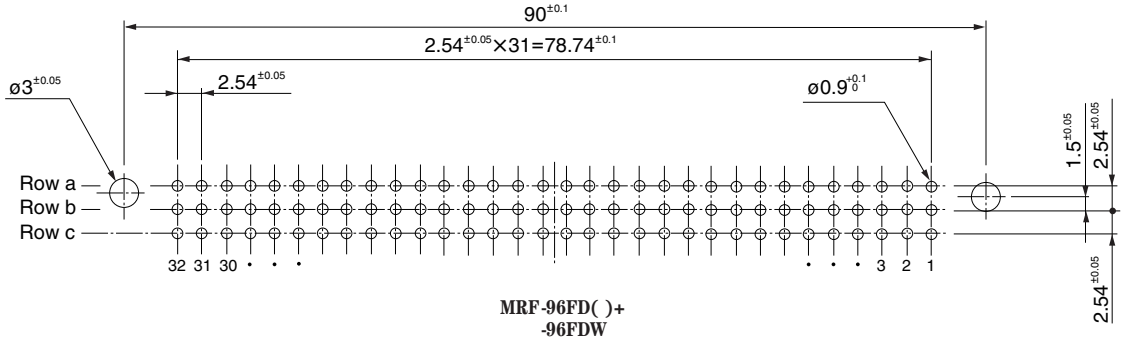
MRH-20FA+
-20RFA+



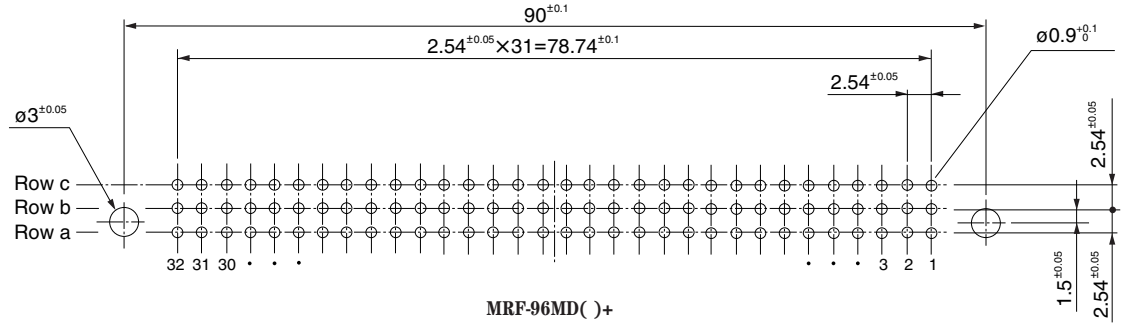
MRH-50FA+
-50RFA+

Note: The dimensions shown in these figures are on the PCB mounted face.

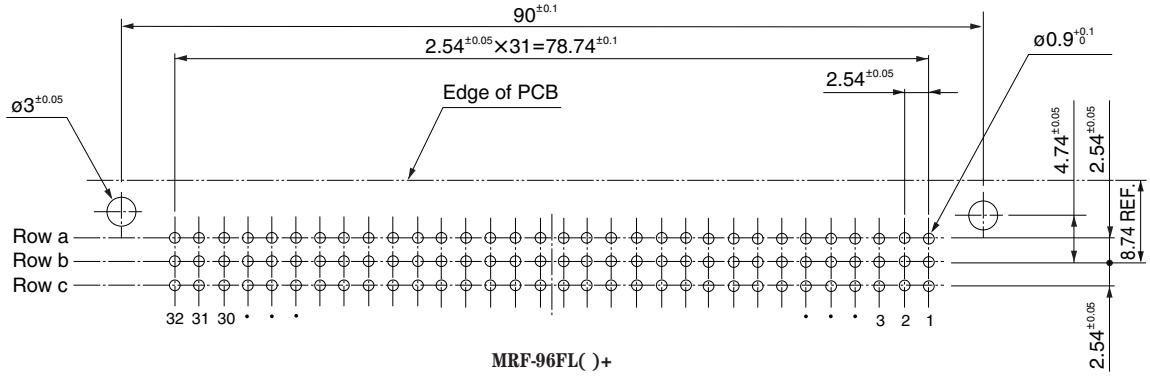
Recommended PCB layout for MRF series through hole type



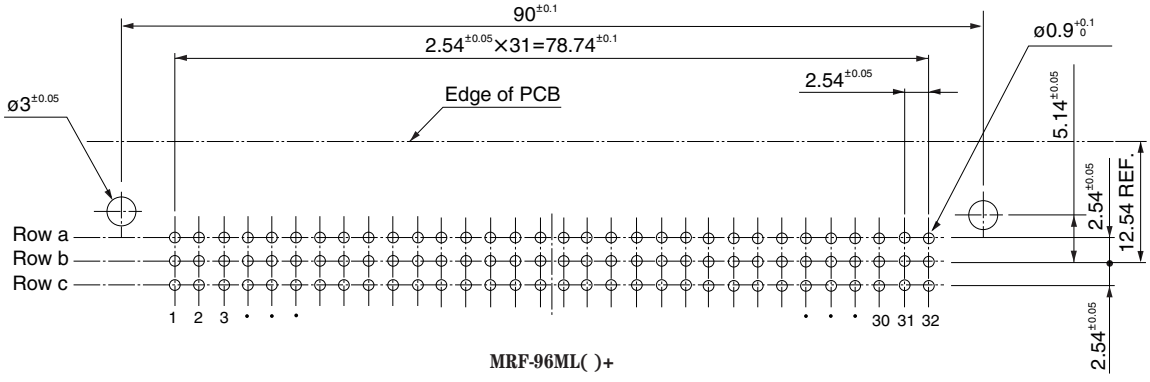
MRF-96FD( )+
-96FDW
-96FDWG+



MRF-96MD( )+



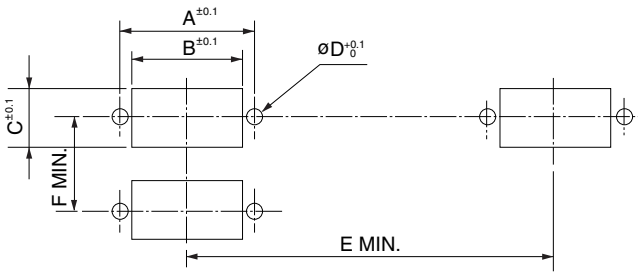
MRF-96FL( )+



MRF-96ML( )+

Note: The dimensions shown in these figures are on the PCB mounted face.

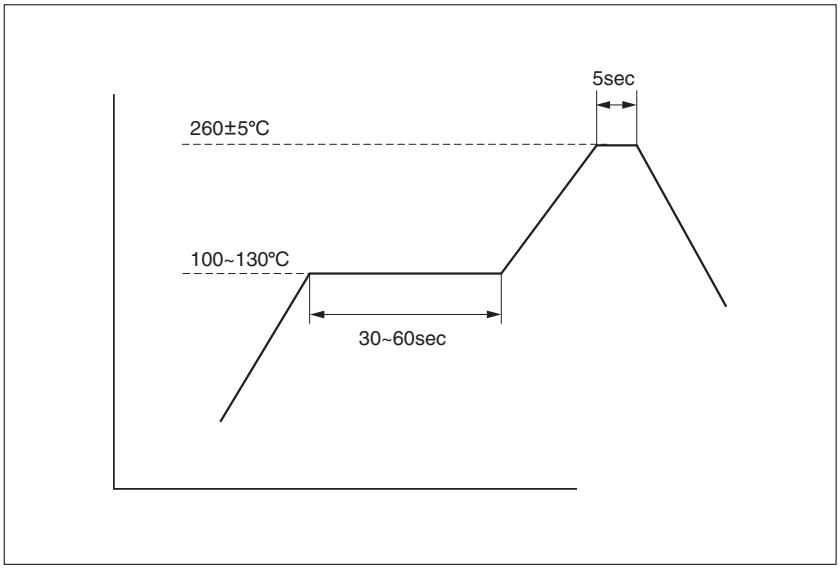
Recommended panel cut-out dimensions for soldering type, wire wrapping or crimping type



Recommended panel cut-out dimensions for soldering type, wire wrapping or crimping type

Connector	A	B	C	øD	E (Reference)	F
8-contact connector	17.4	12.4	11.5	2.8	63.6	20
16-contact connector	25.2	20.2			72.3	19
20-contact connector	27.8	22.8			74.9	
25-contact connector	33.0	28.0			80.1	20
34-contact connector	40.8	35.8			87.9	
50-contact connector	56.4	51.4			103.5	21
60-contact connector	52.6	46.8	14.5	3.3	98.7	23

Flow temperature profile (for reference purposes)



The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

●Applicable products

MR series through hole type connector

MRH series through hole type connector

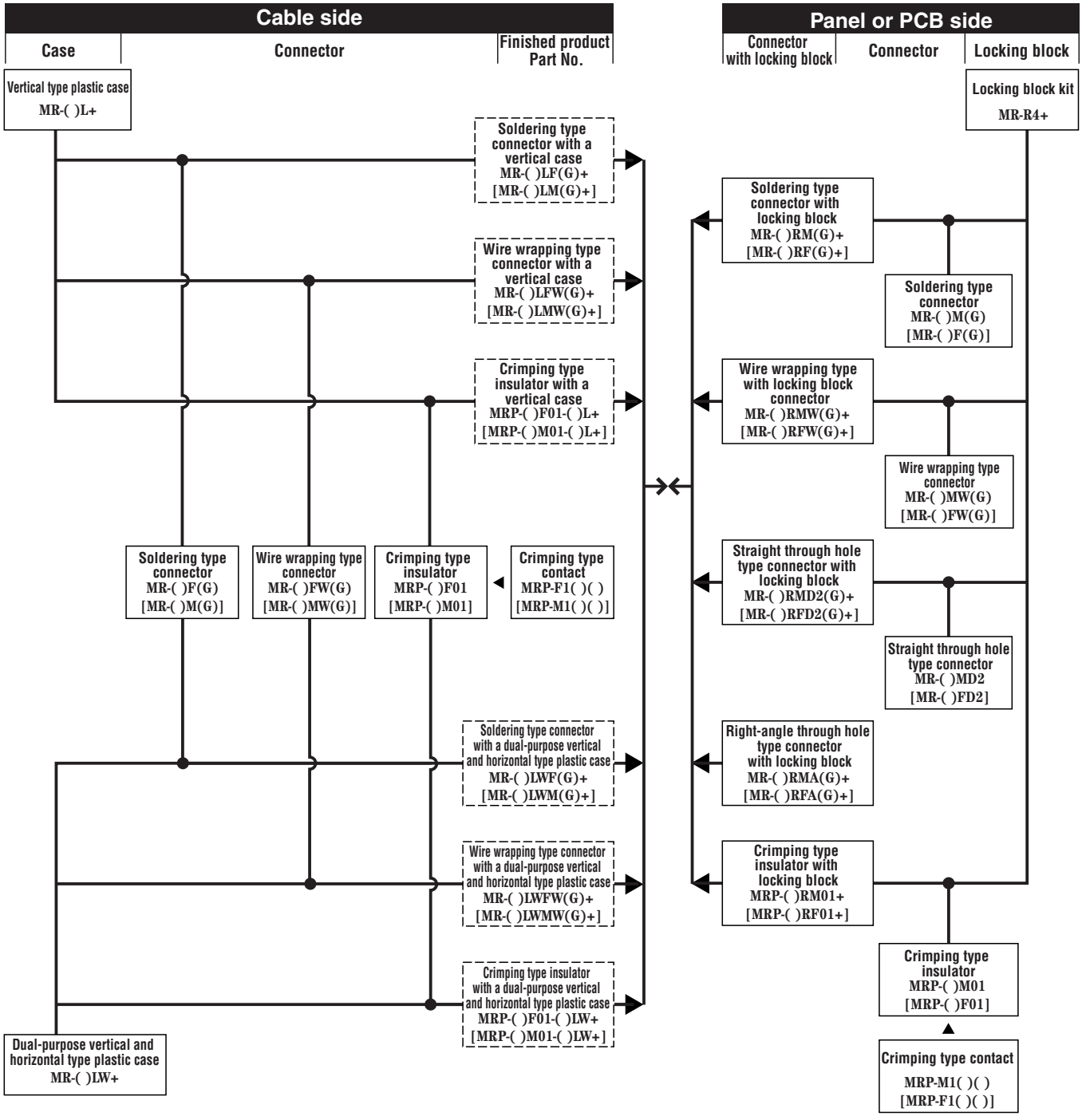
MRF series through hole type connector

The profile shown in this drawing is applicable only for those products shown above.

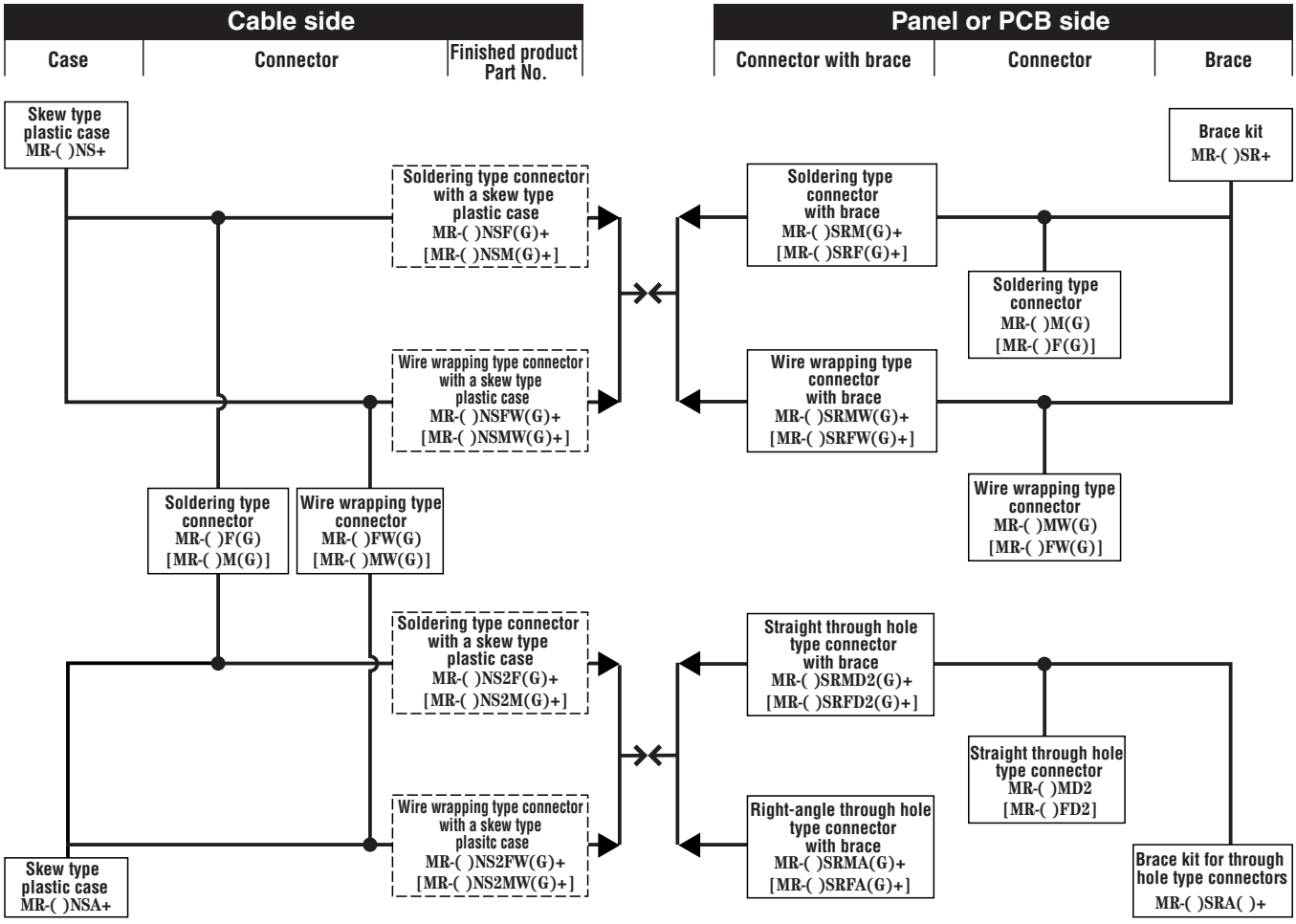
Combination of Connectors, Case, and Locking Blocks

Note 1: Product Part No. in the square brackets [ ] shows a male or female connector, which is the opposite of the male or female connector as above.
Note 2: [ ] Product Part No. in the box shows a finished product Part No.

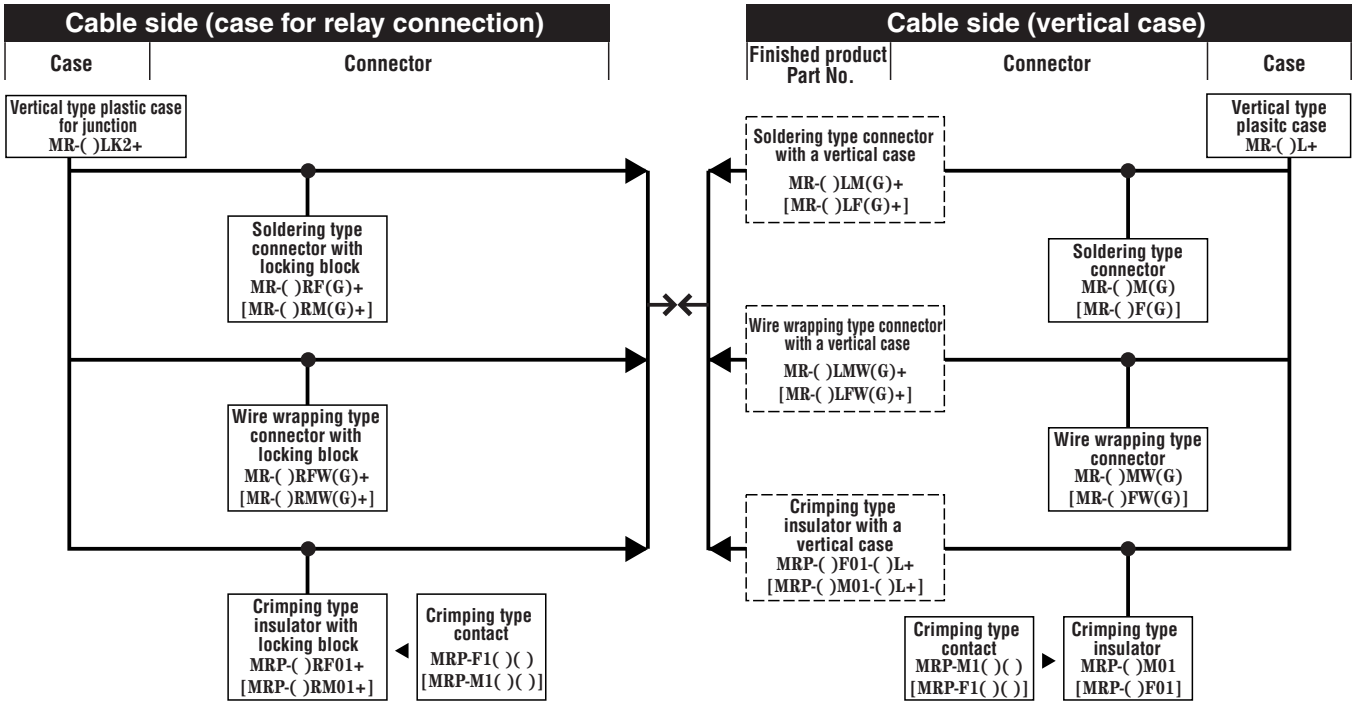
● Example of using vertical type or dual-purpose vertical and horizontal type case



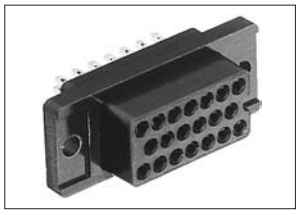
● Example of using skew type cases



● Example of using cases for relay connections

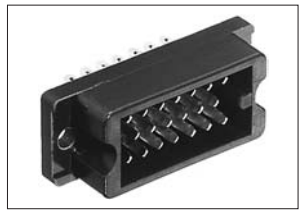


Product List



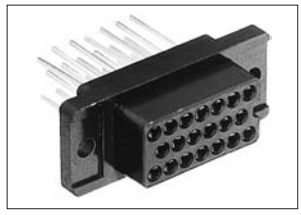
Soldering type
female connector for panel
MR-( )F( )

M-16
MR series...14



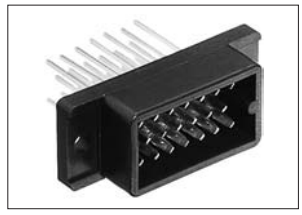
Soldering type
male connector for panel
MR-( )M( )

M-17
MR series...15



Wire wrapping type
female connector for panel
MR-( )FW( )

M-18
MR series...16



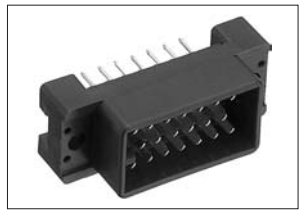
Wire wrapping type
male connector for panel
MR-( )MW( )

M-19
MR series...17



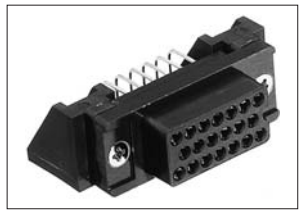
Straight through hole type
female connector for PCB
MR-( )FD2( )

M-20
MR series...18



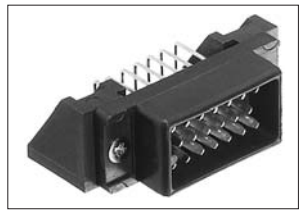
Straight through hole type
male connector for PCB
MR-( )MD2( )

M-21
MR series...19



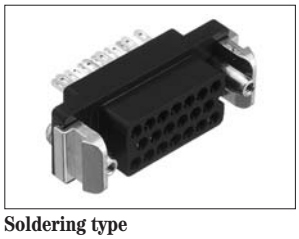
Right-angle through hole type
female connector for PCB
MR-( )FA( )

M-22
MR series...20

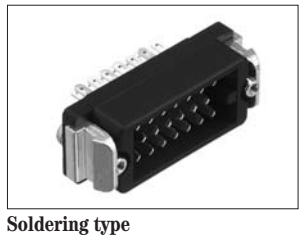


Right-angle through hole type
male connector for PCB
MR-( )MA( )

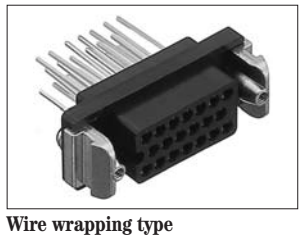
M-23
MR series...21



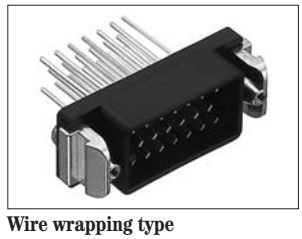
Soldering type
female connector with locking
block for panel
MR-( )RF( )+
M-24
MR series...22



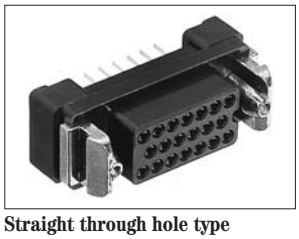
Soldering type
male connector with locking
block for panel
MR-( )RM( )+
M-25
MR series...23



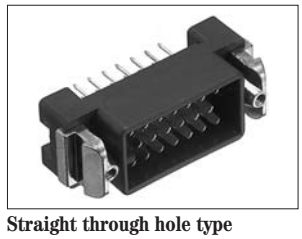
Wire wrapping type
female connector with locking
block for panel
MR-( )RFW( )+
M-26
MR series...24



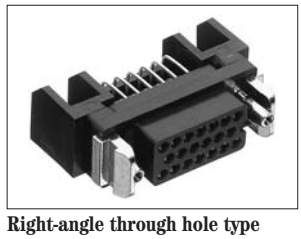
Wire wrapping type
male connector with locking
block for panel
MR-( )RMW( )+
M-27
MR series...25



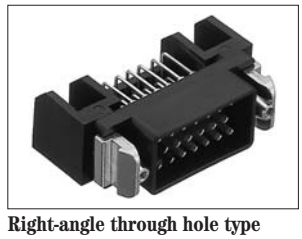
Straight through hole type
female connector with locking
block for PCB
MR-( )RFD2( )+
M-28
MR series...26



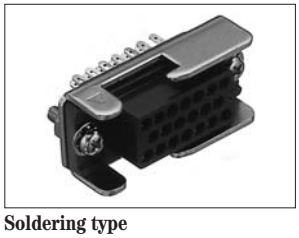
Straight through hole type
male connector with locking
block for PCB
MR-( )RMD2( )+
M-29
MR series...27



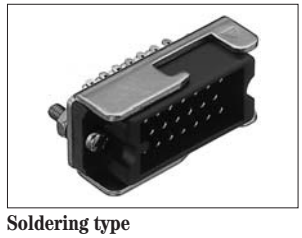
Right-angle through hole type
female connector with locking
block for PCB
MR-( )RFA( )+
M-30
MR series...28



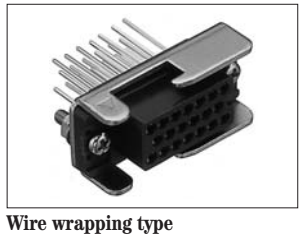
Right-angle through hole type
male connector with locking
block for PCB
MR-( )RMA( )+
M-31
MR series...29



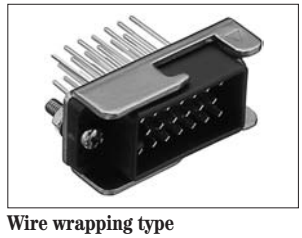
Soldering type
female connector with brace
for panel
MR-( )SRF( )+
M-32
MR series...30



Soldering type
male connector with brace
for panel
MR-( )SRM( )+
M-33
MR series...31



Wire wrapping type
female connector with brace
for panel
MR-( )SRFW( )+
M-34
MR series...32



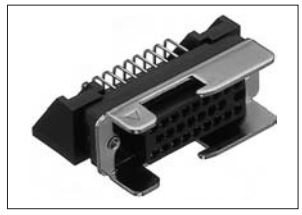
Wire wrapping type
male connector with brace
for panel
MR-( )SRMW( )+
M-35
MR series...33



Straight through hole type female connector with brace for PCB
MR-( )SRFD2( )+
M-36
MR series...34



Straight through hole type male connector with brace for PCB
MR-( )SRMD2( )+
M-37
MR series...35



Right-angle through hole type female connector with brace for PCB
MR-( )SRFA( )+
M-38
MR series...36



Right-angle through hole type male connector with brace for PCB
MR-( )SRMA( )+
M-39
MR series...37



Vertical type plastic case
MR-( )L+

M-40
MR series...38



Vertical type plastic case for junction
MR-( )LK2+

M-41
MR series...39



Dual-purpose vertical and horizontal type plastic case
MR-( )LW+

M-42
MR series...40



Skew type plastic case
MR-( )NS+

M-43
MR series...41



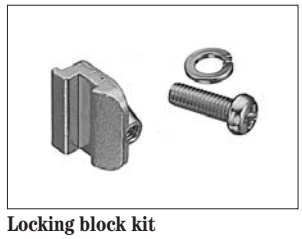
Skew type plastic case
MR-( )NSA+

M-44
MR series...42



Skew type plastic case
MR-( )NSB+

M-45
MR series...43



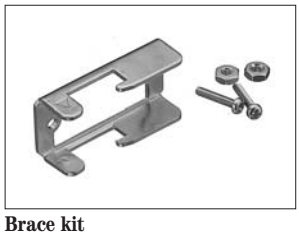
Locking block kit
MR-R( )+

M-46
MR series...44



Brace kit
MR-( )SR+

M-47
MR series...45



Brace kit
MR-( )SRA( )+

M-48
MR series...46



Dust cover for female connector
MR-( )CF

M-49
MR series...47



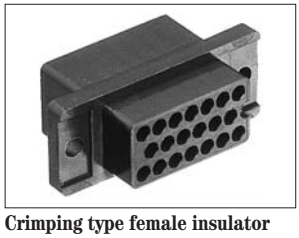
Key for preventing misinsertion
MR-PK

M-50
MR series...48



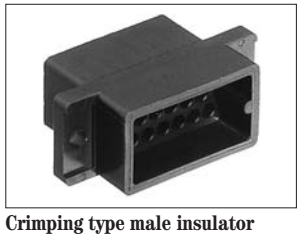
Tool for extracting male contact
MR-K1

M-51
MR series...49



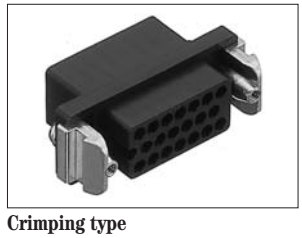
Crimping type female insulator for panel
MRP-( )F01

M-52
MR series...50

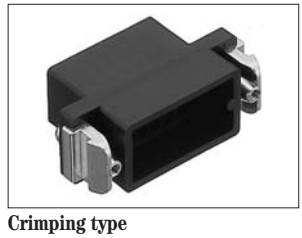


Crimping type male insulator for panel
MRP-( )M01

M-53
MR series...51



Crimping type female insulator with locking block for panel
MRP-( )RF01+
M-54
MR series...52



Crimping type male insulator with locking block for panel
MRP-( )RM01+
M-55
MR series...53



Crimping type female contact
MRP-F1( )( )

M-56
MR series...54



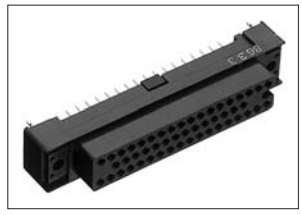
Crimping type male contact
MRP-M1( )( )

M-57
MR series...55



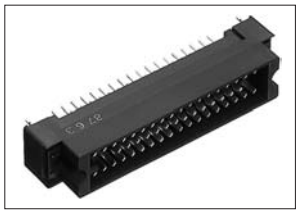
Crimping type contact extraction tool
MRP-MF+

M-58
MR series...56



Straight through hole type female connector for PCB
MRH-( )FD( )+

M-59
MR series...57



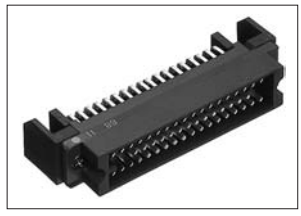
Straight through hole type male connector for PCB
MRH-( )MD( )+

M-60
MR series...58



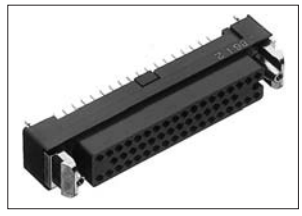
Right-angle through hole type female connector for PCB
MRH-( )FA( )+

M-61
MR series...59

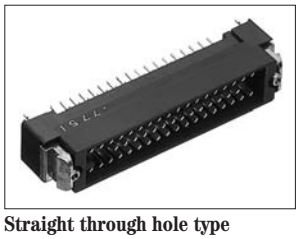


Right-angle through hole type male connector for PCB
MRH-( )MA( )+

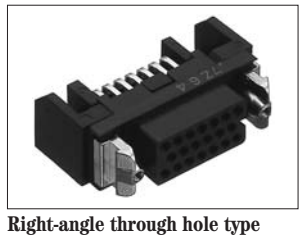
M-62
MR series...60



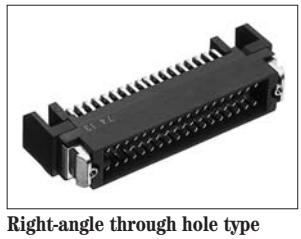
Straight through hole type female connector with locking block for PCB
MRH-( )RFD( )+
M-63
MR series...61



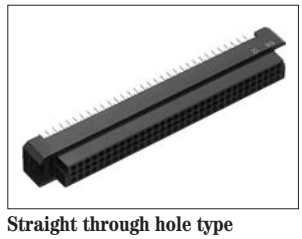
Straight through hole type male connector with locking block for PCB
MRH-( )RMD( )+
M-64
MR series...62



Right-angle through hole type female connector with locking block for PCB
MRH-( )RFA( )+
M-65
MR series...63

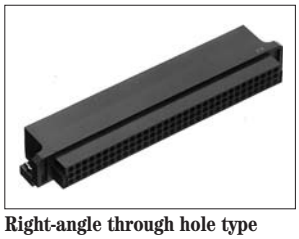


Right-angle through hole type male connector with locking block for PCB
MRH-( )RMA( )+
M-66
MR series...64



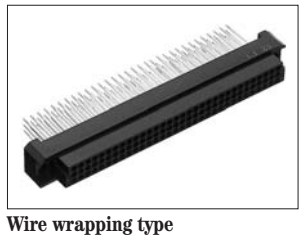
Straight through hole type female connector for PCB
MRF-96FD( )+

M-67
MR series...65



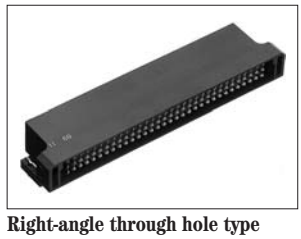
Right-angle through hole type female connector for PCB
MRF-96FL( )+

M-68
MR series...66



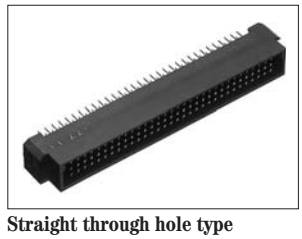
Wire wrapping type female connector for PCB
MRF-96FDW( )

M-69
MR series...67



Right-angle through hole type male connector PCB
MRF-96ML( )+

M-70
MR series...68

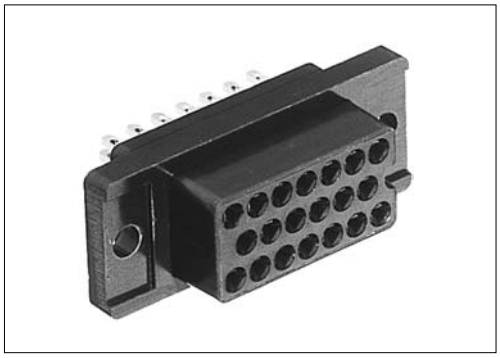


Straight through hole type male connector for PCB
MRF-96MD( )+

M-71
MR series...69

Soldering type female connector for panel
MR-( )F( )

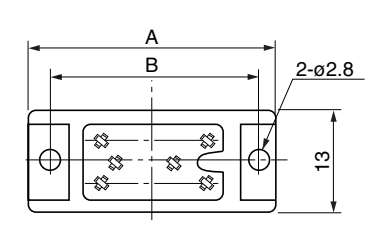
RoHS

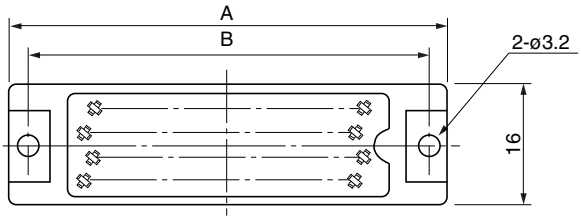


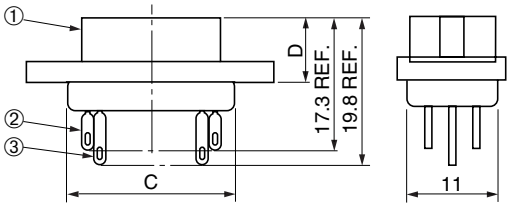
● **Configuration of product Part No.**

MR- ( ) F ( )
① ② ③ ④

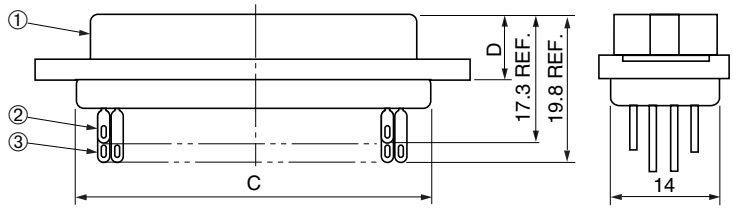
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type of contact: Soldering, female
④ Contact plating
None: Silver plate (standard)
G : Gold plate







8, 16, 20, 25, 34 or 50-contact connector



60-contact connector

● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)

● **Dimensions**

Part No.	A	B	C	D
MR-8F( )	22.4	17.4	11.9	9.4
MR-16F( )	30.2	25.2	19.7	9
MR-20F( )	32.8	27.8	22.3	
MR-25F( )	38.0	33.0	27.5	
MR-34F( )	45.8	40.8	35.3	
MR-50F( )	61.4	56.4	50.9	
MR-60F( )	59.6	52.6	46.3	

Mating connectors: MR and MRH series male connectors

Applicable case: MR-( )L+, etc.

Soldering type male connector for panel
MR-( )M( )

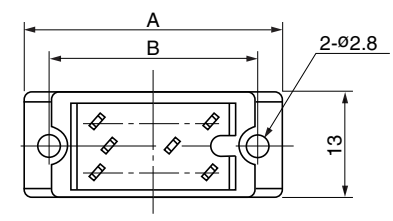
RoHS

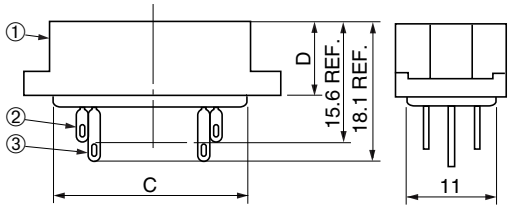


● **Configuration of product Part No.**

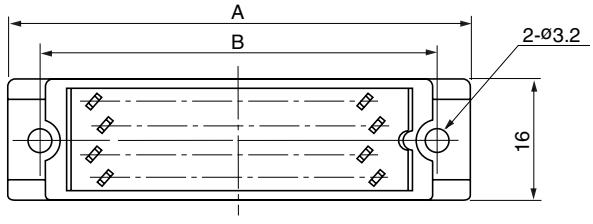
MR-( )M( )
① ② ③ ④

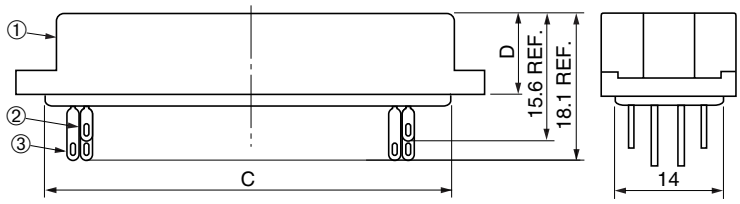
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type of contact: Soldering, male
④ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 20, 25, 34 or 50-contact connector





60-contact connector

● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)

● **Dimensions**

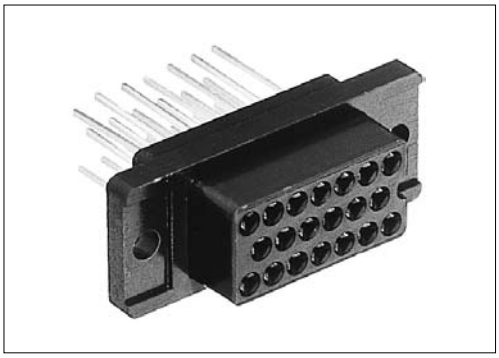
Part No.	A	B	C	D
MR-8M( )	22.4	17.4	11.9	10.0
MR-16M( )	30.2	25.2	19.7	9.6
MR-20M( )	32.8	27.8	22.3	
MR-25M( )	38.0	33.0	27.5	
MR-34M( )	45.8	40.8	35.3	
MR-50M( )	61.4	56.4	50.9	
MR-60M( )	59.6	52.6	46.3	

Mating connectors: MR and MRH series female connectors

Applicable case: MR-( )L+, etc.

Wire wrapping type female connector for panel
MR-( )FW( )

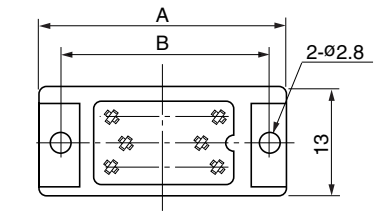
RoHS

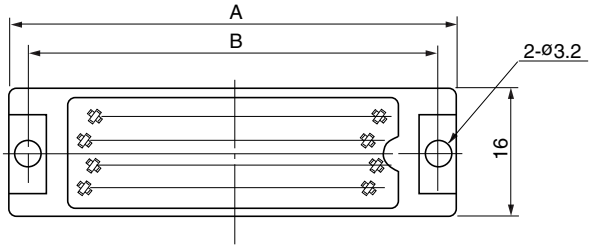


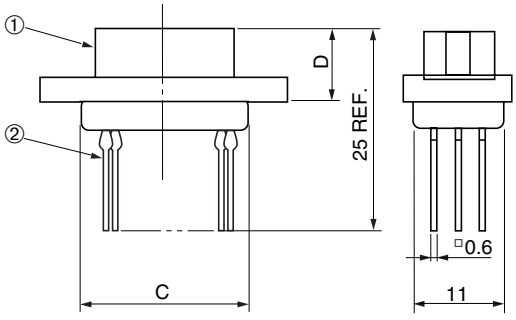
● **Configuration of product Part No.**

MR- ( ) FW ( )
① ② ③ ④

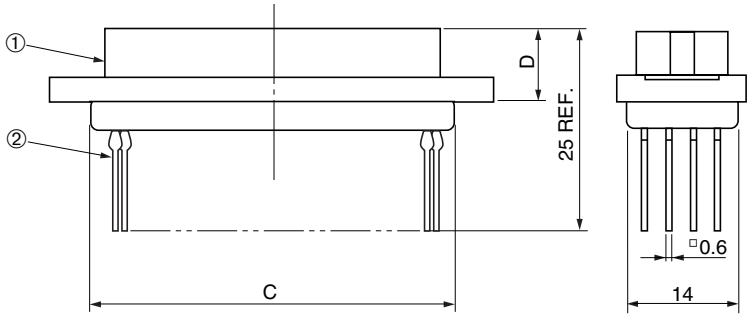
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type of contact: Wire wrapping, female
④ Contact plating
None: Silver plate (standard)
G : Gold plate







8, 16, 20, 25, 34 or 50-contact connector



60-contact connector

● **Components**

①	Insulator
②	Contact

● **Dimensions**

Part No.	A	B	C	D
MR-8FW( )	22.4	17.4	11.9	9.4
MR-16FW( )	30.2	25.2	19.7	9
MR-20FW( )	32.8	27.8	22.3	
MR-25FW( )	38.0	33.0	27.5	
MR-34FW( )	45.8	40.8	35.3	
MR-50FW( )	61.4	56.4	50.9	
MR-60FW( )	59.6	52.6	46.3	

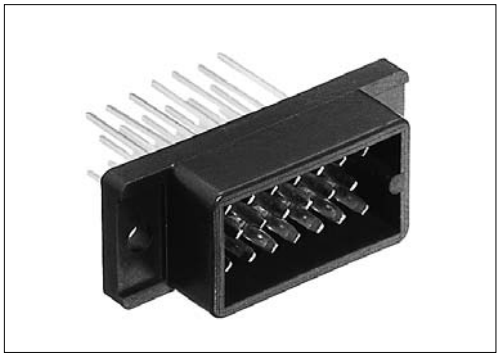
Mating connectors: MR and MRH series male connectors

Applicable case: MR-( )L+, etc.

Applicable cable sizes: ø0.32-0.40 mm

Wire wrapping type male connector for panel
MR-( )MW( )

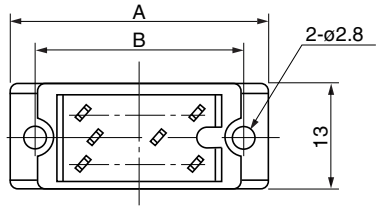
RoHS

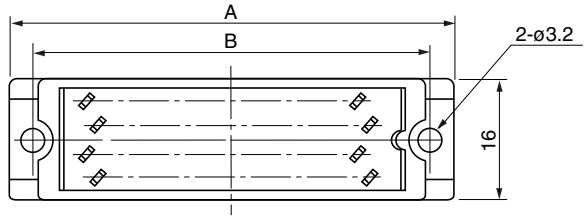


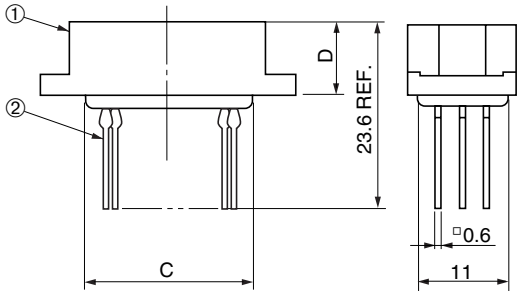
● **Configuration of product Part No.**

MR- ( ) MW ( )
① ② ③ ④

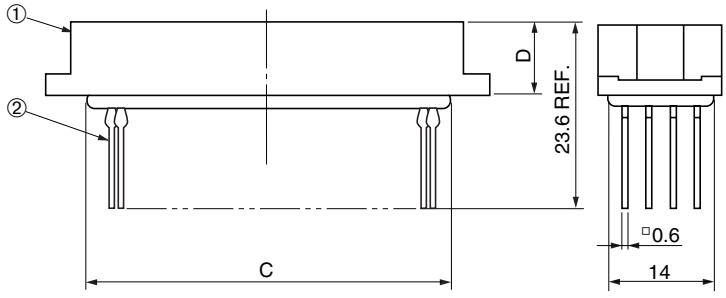
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type of contact: Wire wrapping, male
④ Contact plating
None: Silver plate (standard)
G : Gold plate







8, 16, 20, 25, 34 or 50-contact connector



60-contact connector

● **Components**

①	Insulator
②	Contact

● **Dimensions**

Part No.	A	B	C	D
MR-8MW( )	22.4	17.4	11.9	10.0
MR-16MW( )	30.2	25.2	19.7	9.6
MR-20MW( )	32.8	27.8	22.3	
MR-25MW( )	38.0	33.0	27.5	
MR-34MW( )	45.8	40.8	35.3	
MR-50MW( )	61.4	56.4	50.9	
MR-60MW( )	59.6	52.6	46.3	

Mating connectors: MR and MRH series female connectors

Applicable case: MR-( )L+, etc.

Applicable cable sizes: ø0.32-0.40 mm

Straight through hole type female connector for PCB
MR-( )FD2( )

RoHS

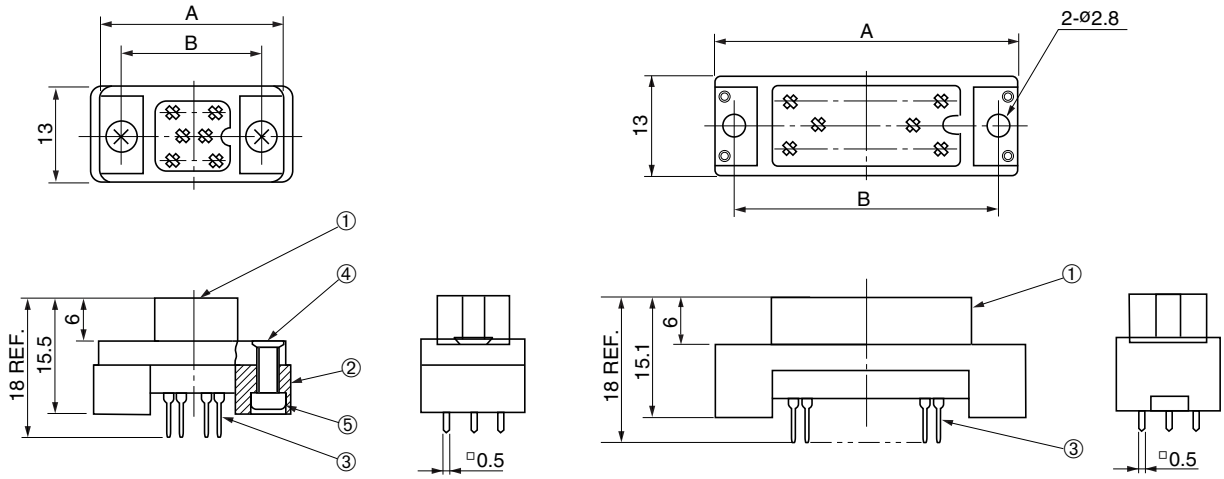
Rectangular connector
For PCB
Through hole

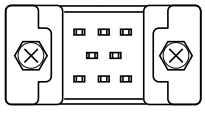


● **Configuration of product Part No.**

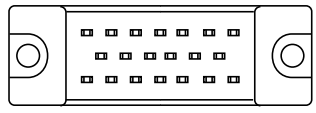
MR- ( ) FD2 ( )
① ② ③ ④

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of contact: Through hole, female
④ Contact plating
None: Silver plate (standard)
G : Gold plate





8-contact connector



16, 20, 25, 34 or 50-contact connector

● **Components**

①	Insulator
②	Spacer
③	Contact
④	Small-sized Phillips flat head screw
⑤	Hexagon nut

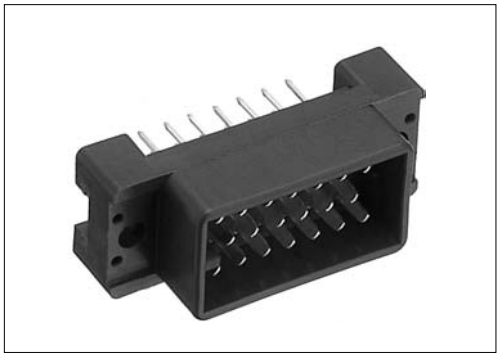
● **Dimensions**

Part No.	A	B
MR-8FD2( )	22.4	17.4
MR-16FD2( )	30.2	25.2
MR-20FD2( )	32.8	27.8
MR-25FD2( )	38.0	33.0
MR-34FD2( )	45.8	40.8
MR-50FD2( )	61.4	56.4

Mating connectors: MR and MRH series male connectors

Straight through hole type male connector for PCB
MR-( )MD2( )

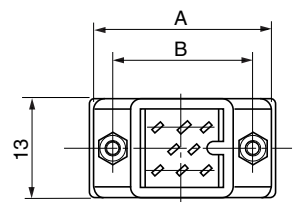
RoHS

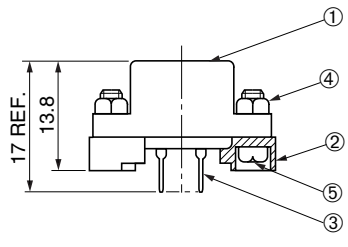


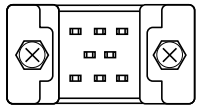
● **Configuration of product Part No.**

MR- ( ) MD2 ( )
① ② ③ ④

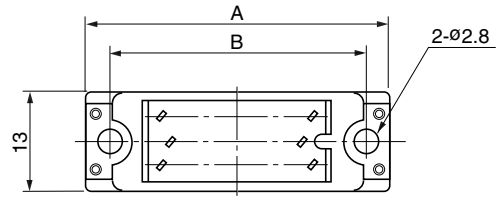
① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of contact: Through hole, male
④ Contact plating
None: Silver plate (standard)
G : Gold plate

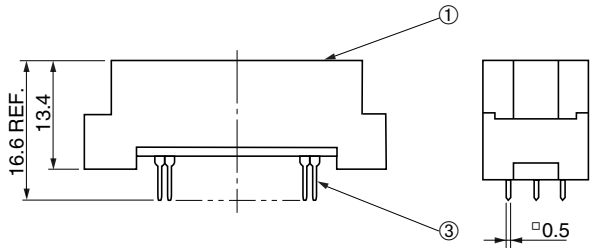


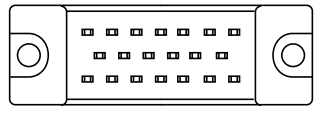




8-contact connector







16, 20, 25, 34 or 50-contact connector

● **Components**

①	Insulator
②	Spacer
③	Contact
④	Hexagon nut
⑤	Small-sized Phillips head screw

● **Dimensions**

Part No.	A	B
MR-8MD2( )	22.4	17.4
MR-16MD2( )	30.2	25.2
MR-20MD2( )	32.8	27.8
MR-25MD2( )	38.0	33.0
MR-34MD2( )	45.8	40.8
MR-50MD2( )	61.4	56.4

Mating connectors: MR and MRH series female connectors

Right-angle through hole type female connector for PCB
MR-( )FA( )

Rectangular connector
For PCB
Right-angle Through hole

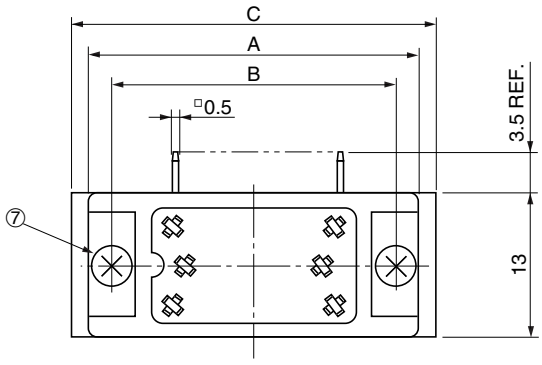
RoHS

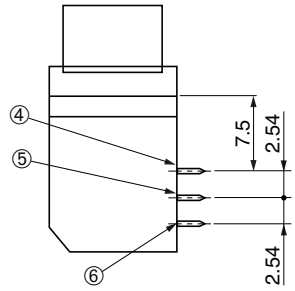


● **Configuration of product Part No.**

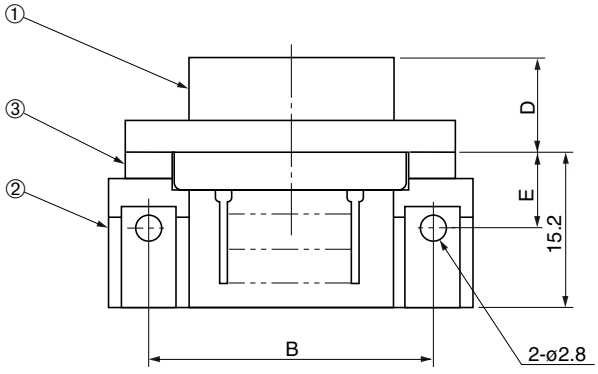
MR- ( ) FA ( )
① ② ③ ④

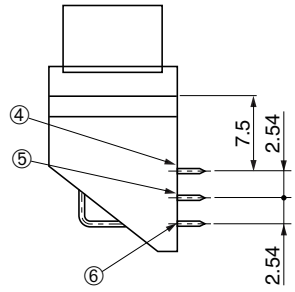
① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of contact: Right-angle through hole, female
④ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 25 or 34-contact connector





20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Spacer
④	Contact (short)
⑤	Contact (middle)
⑥	Contact (long)
⑦	Tapping screw

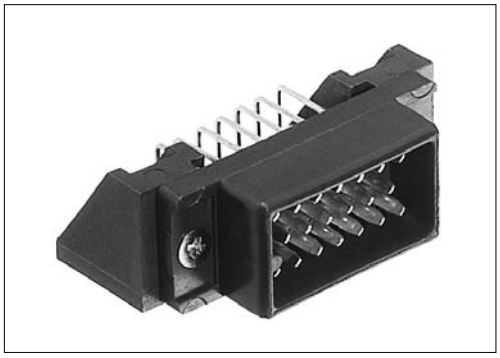
● **Dimensions**

Part No.	A	B	C	D	E
MR-8FA( )	22.4	17.4	26.6	9.4	7.6
MR-16FA( )	30.2	25.2	34.4	9	8
MR-20FA( )	32.8	27.8	37.0		
MR-25FA( )	38.0	33.0	42.2		
MR-34FA( )	45.8	40.8	50.0		
MR-50FA( )	61.4	56.4	65.6		

Mating connectors: MR and MRH series male connectors

Right-angle through hole type male connector for PCB
MR-( )MA( )

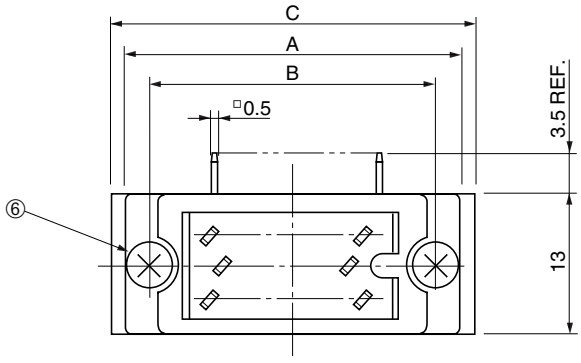
RoHS

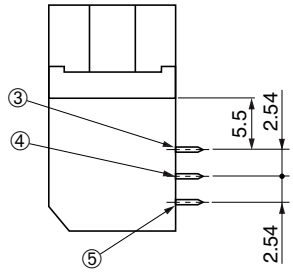


● **Configuration of product Part No.**

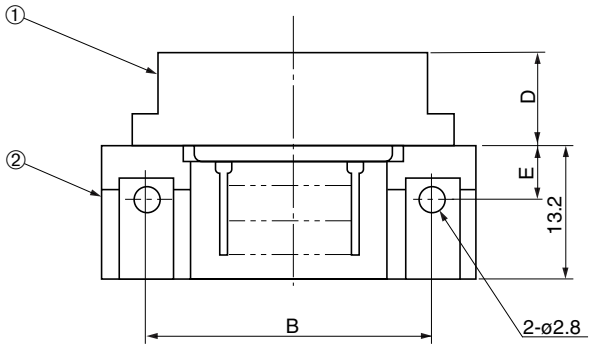
MR-( )MA( )
① ② ③ ④

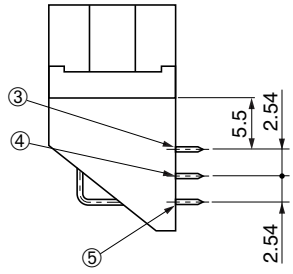
① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of contact: Right-angle through hole, male
④ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 25 or 34-contact connector





20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Contact (short)
④	Contact (middle)
⑤	Contact (long)
⑥	Tapping screw

● **Dimensions**

Part No.	A	B	C	D	E
MR-8MA( )	22.4	17.4	26.6	10.0	5.6
MR-16MA( )	30.2	25.2	34.4	9.6	6
MR-20MA( )	32.8	27.8	37.0		
MR-25MA( )	38.0	33.0	42.2		
MR-34MA( )	45.8	40.8	50.0		
MR-50MA( )	61.4	56.4	65.6		

Mating connectors: MR and MRH series female connectors

Rectangular connector
For panel
Soldering
With locking block

Soldering type female connector with locking block for panel
MR-( )RF( )+

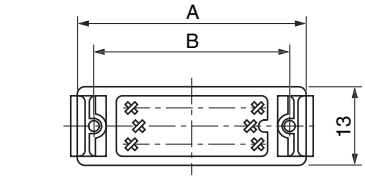
RoHS

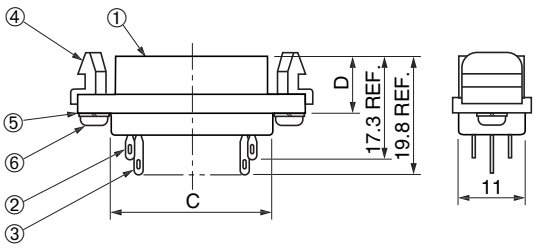


● **Configuration of product Part No.**

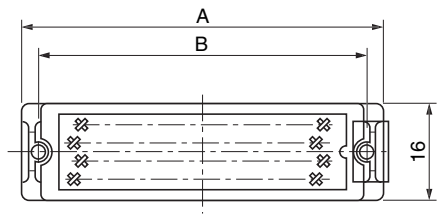
MR- ( ) R F ( )+
① ② ③ ④ ⑤

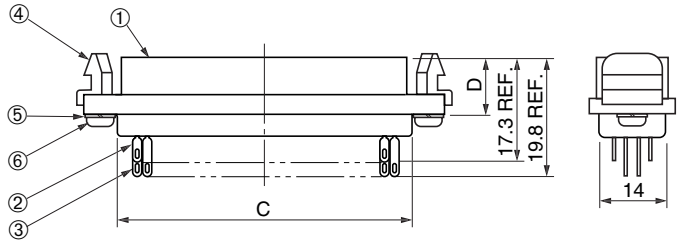
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ With locking block
④ Type of contact: Soldering, female
⑤ Contact plating
None: Silver plate
G : Gold plate





8, 16, 20, 25, 34 or 50-contact connector





60-contact connector

● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)
④	Locking block (Appended)
⑤	Spring washers (Appended)
⑥	Small-sized Phillips head screws (Appended)

● **Dimensions**

Part No.	A	B	C	D
MR-8RF( )+	22.4	17.4	11.9	9.4
MR-16RF( )+	30.2	25.2	19.7	9.0
MR-20RF( )+	32.8	27.8	22.3	
MR-25RF( )+	38.0	33.0	27.5	
MR-34RF( )+	45.8	40.8	35.3	
MR-50RF( )+	61.4	56.4	50.9	
MR-60R2F( )+	59.6	52.6	46.3	

Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LM( )+, etc.

Soldering type male connector with locking block for panel
MR-( )RM( )+

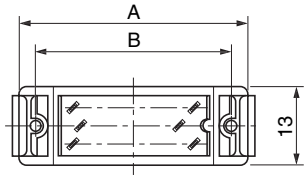
RoHS

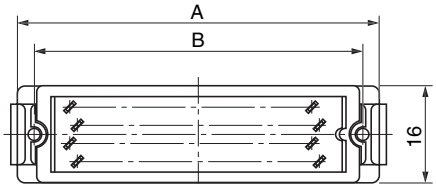


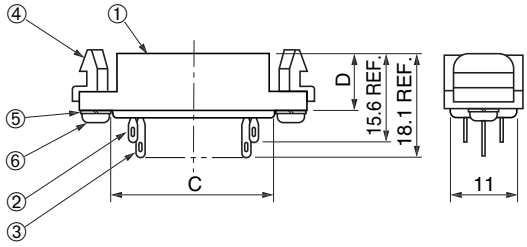
● **Configuration of product Part No.**

MR- ( ) R M ( )+
① ② ③ ④ ⑤

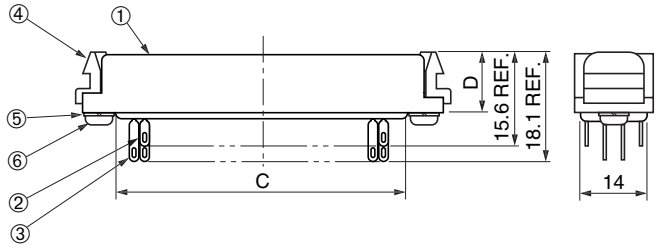
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ With locking block
④ Type of contact: Soldering, male
⑤ Contact plating
None: Silver plate
G : Gold plate







8, 16, 20, 25, 34 or 50-contact connector



60-contact connector

● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)
④	Locking block (Appended)
⑤	Spring washers (Appended)
⑥	Small-sized Phillips head screws (Appended)

● **Dimensions**

Part No.	A	B	C	D
MR-8RM( )+	22.4	17.4	11.9	10.0
MR-16RM( )+	30.2	25.2	19.7	9.6
MR-20RM( )+	32.8	27.8	22.3	
MR-25RM( )+	38.0	33.0	27.5	
MR-34RM( )+	45.8	40.8	35.3	
MR-50RM( )+	61.4	56.4	50.9	
MR-60R2M( )+	59.6	52.6	46.3	

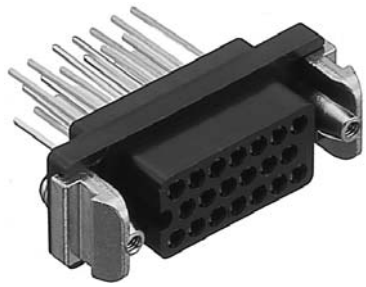
Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LF( )+, etc.

Rectangular connector
For panel
Wire wrapping
With locking block

Wire wrapping type female connector with locking block for panel
MR-( )RFW( )+

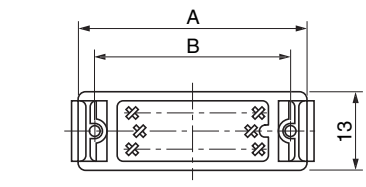
RoHS

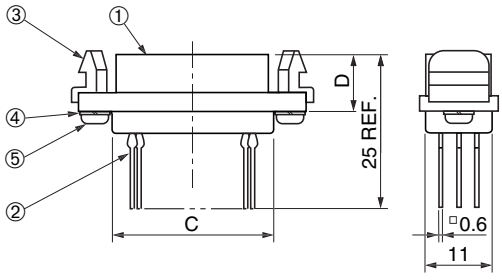


● **Configuration of product Part No.**

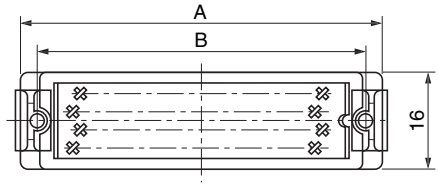
MR- ( ) R FW ( )+
① ② ③ ④ ⑤

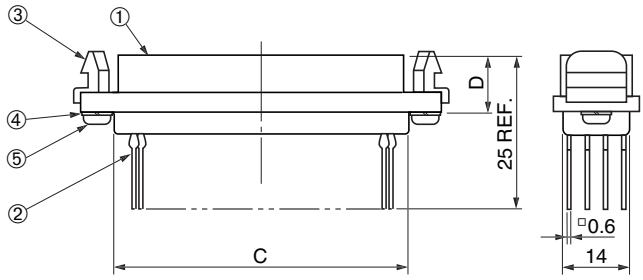
① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ With locking block
④ Type of contact: Wire wrapping, female
⑤ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 20, 25, 34 or 50-contact connector





60-contact connector

● **Components**

①	Insulator
②	Contact
③	Locking block (Appended)
④	Spring washers (Appended)
⑤	Small-sized Phillips head screws (Appended)

● **Dimensions**

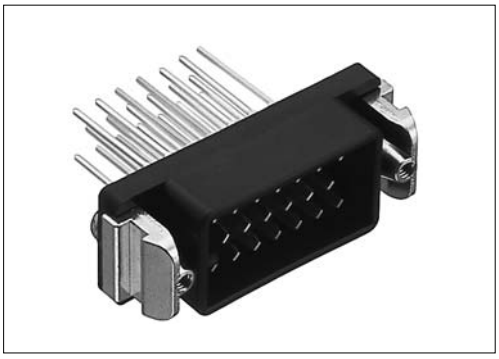
Part No.	A	B	C	D
MR-8RFW( )+	22.4	17.4	11.9	9.4
MR-16RFW( )+	30.2	25.2	19.7	9.0
MR-20RFW( )+	32.8	27.8	22.3	
MR-25RFW( )+	38.0	33.0	27.5	
MR-34RFW( )+	45.8	40.8	35.3	
MR-50RFW( )+	61.4	56.4	50.9	
MR-60R2FW( )+	59.6	52.6	46.3	

Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LM( )+, etc.

Wire wrapping type male connector with locking block for panel
MR-( )RMW( )+

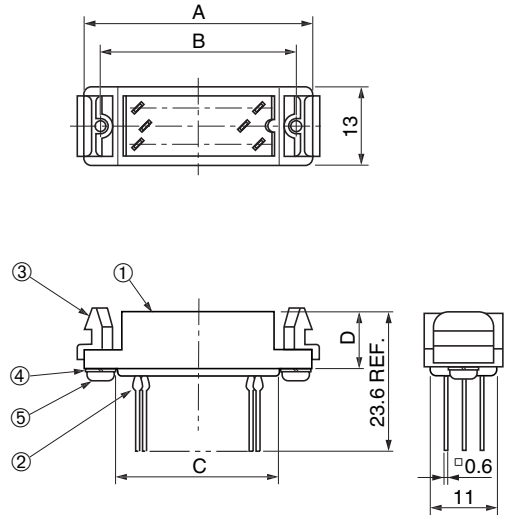
RoHS



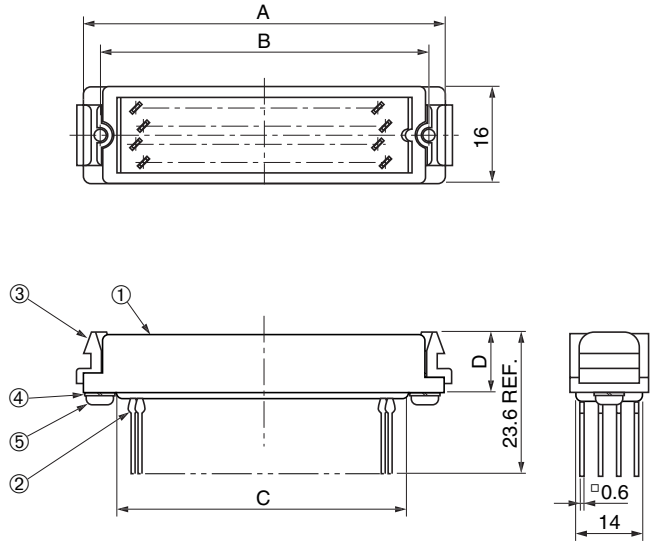
● **Configuration of product Part No.**

MR- ( ) R MW ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type locking block
④ Form of contact: Wire wrapping, male
⑤ Contact plating
None: Silver plate
G : Gold plate



8, 16, 20, 25, 34 or 50-contact connector



60-contact connector

● **Components**

①	Insulator
②	Contact
③	Locking block (Appended)
④	Spring washers (Appended)
⑤	Small-sized Phillips head screws (Appended)

● **Dimensions**

Part No.	A	B	C	D
MR-8RMW( )+	22.4	17.4	11.9	10.0
MR-16RMW( )+	30.2	25.2	19.7	9.6
MR-20RMW( )+	32.8	27.8	22.3	
MR-25RMW( )+	38.0	33.0	27.5	
MR-34RMW( )+	45.8	40.8	35.3	
MR-50RMW( )+	61.4	56.4	50.9	
MR-60R2MW( )+	59.6	52.6	46.3	

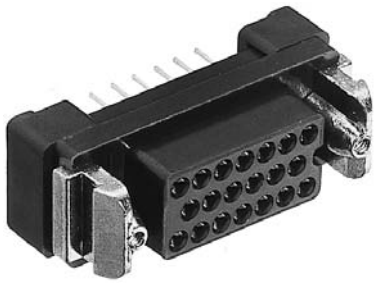
Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LF( )+, etc.

Rectangular connector
For PCB
Through hole
With locking block

Straight through hole type female connector with locking block for PCB
MR-( )RFD2( )+

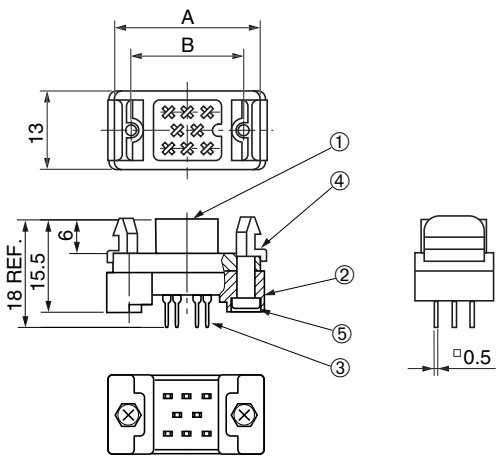
RoHS



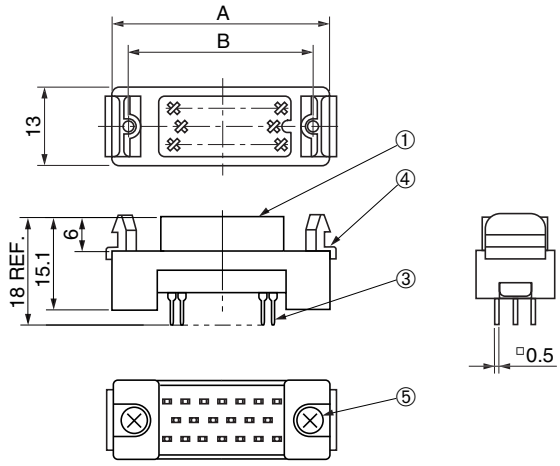
● **Configuration of product Part No.**

MR- ( ) R FD2 ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ With locking block
④ Type of contact: Through hole, male
⑤ Contact plating
None: Silver plate (standard)
G : Gold plate



8-contact connector



16, 20, 25, 34 or 50-contact connector

● **Components**

①	Insulator
②	Spacer
③	Contact
④	Locking block (Appended)
⑤	Small-sized Phillips head screws (Appended)

● **Dimensions**

Part No.	A	B
MR-8RFD2( )+	22.4	17.4
MR-16RFD2( )+	30.2	25.2
MR-20RFD2( )+	32.8	27.8
MR-25RFD2( )+	38.0	33.0
MR-34RFD2( )+	45.8	40.8
MR-50RFD2( )+	61.4	56.4

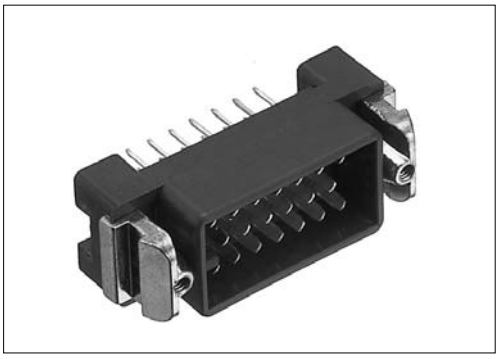
Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LM( )+, etc.

Straight through hole type male connector with locking block for PCB
MR-( )RMD2( )+

RoHS

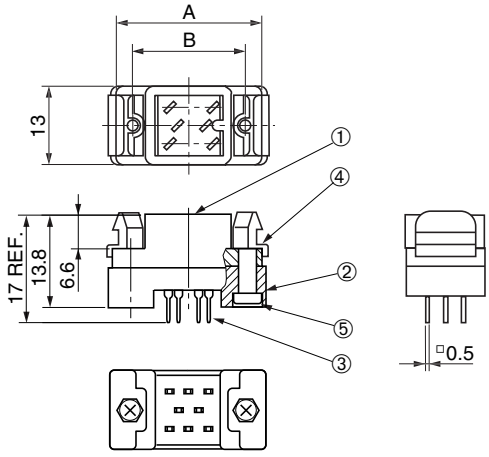
Rectangular connector
For PCB
Through hole
With locking block



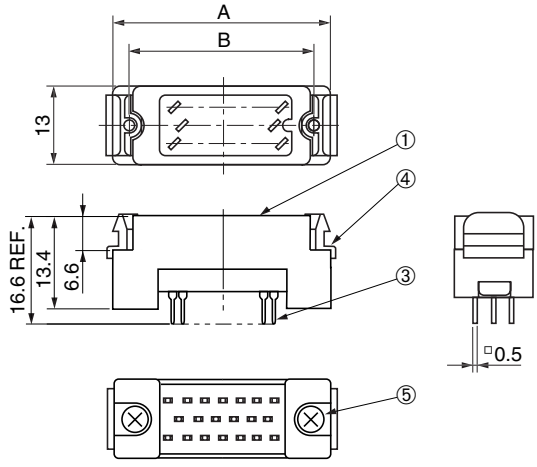
● **Configuration of product Part No.**

MR- ( ) R MD2 ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ With locking block
④ Type of contact: Through hole, male
⑤ Contact plating
None: Silver plate (standard)
G : Gold plate



8-contact connector



16, 20, 25, 34 or 50-contact connector

● **Components**

①	Insulator
②	Spacer
③	Contact
④	Locking block (Appended)
⑤	Small-sized Phillips head screws (Appended)

● **Dimensions**

Part No.	A	B
MR-8RMD2( )+	22.4	17.4
MR-16RMD2( )+	30.2	25.2
MR-20RMD2( )+	32.8	27.8
MR-25RMD2( )+	38.0	33.0
MR-34RMD2( )+	45.8	40.8
MR-50RMD2( )+	61.4	56.4

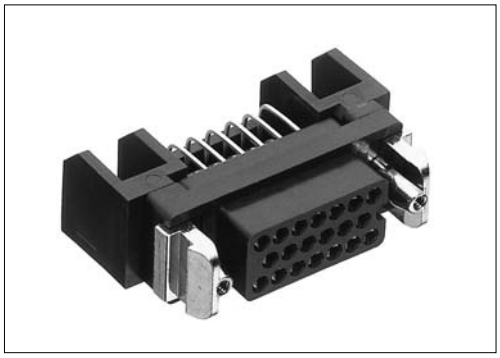
Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LF( )+, etc.

Rectangular connector
For PCB
Right-angle Through hole
With locking block

Right-angle through hole type female connector with locking block for PCB
MR-( )RFA( )+

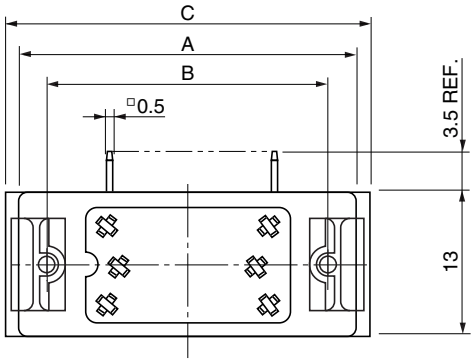
RoHS

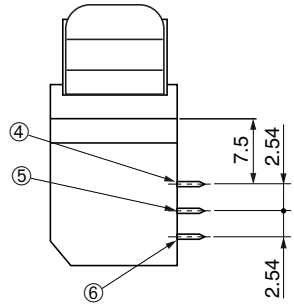


● **Configuration of product Part No.**

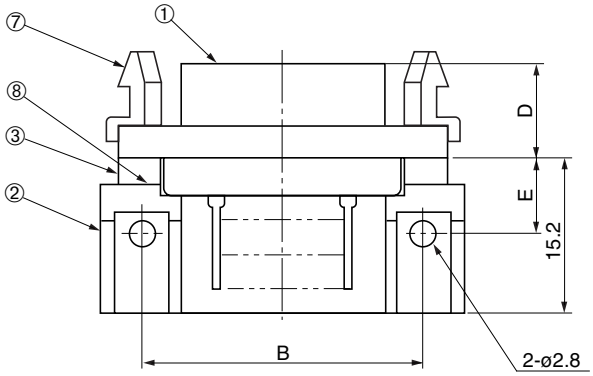
MR- ( ) R FA ( )+
① ② ③ ④ ⑤

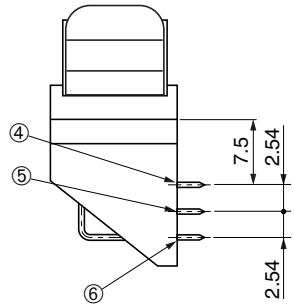
① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ With locking block
④ Type of contact: Right-angle through hole, female
⑤ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 25 or 34-contact connector





20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Spacer
④	Contact (short)
⑤	Contact (middle)
⑥	Contact (long)
⑦	Locking block
⑧	Small-sized Phillips flat head screw

● **Dimensions**

Part No.	A	B	C	D	E
MR-8RFA( )+	22.4	17.4	26.6	9.4	7.6
MR-16RFA( )+	30.2	25.2	34.4	9	8
MR-20RFA( )+	32.8	27.8	37.0		
MR-25RFA( )+	38.0	33.0	42.2		
MR-34RFA( )+	45.8	40.8	50.0		
MR-50RFA( )+	61.4	56.4	65.6		

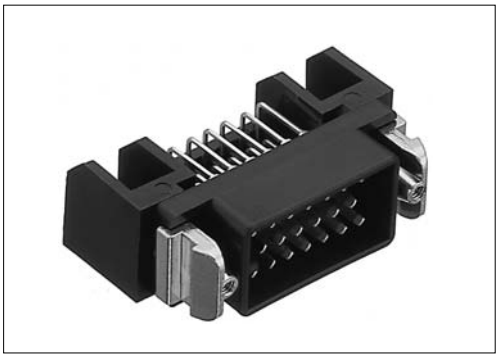
Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LM( )+, etc.

Rectangular connector
For PCB
Right-angle Through hole
With locking block

Right-angle through hole type male connector with locking block for PCB
MR-( )RMA( )+

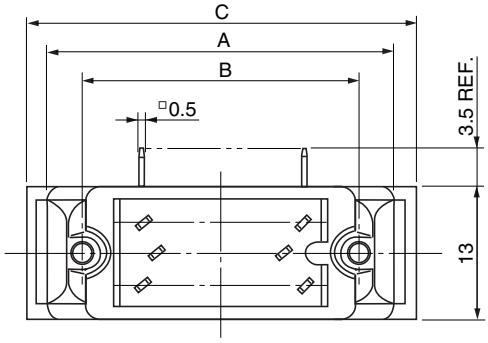
RoHS

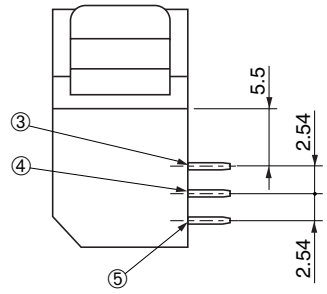


● **Configuration of product Part No.**

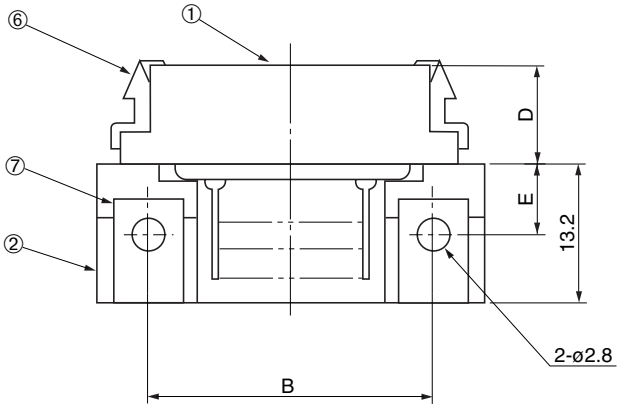
MR- ( ) R MA ( )+
① ② ③ ④ ⑤

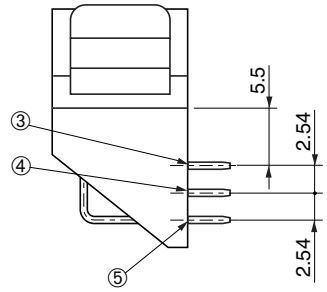
① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ With locking block
④ Type of contact: Right-angle through hole, male
⑤ Contact plating
None: Silver plate (standard)
G : Gold plate





8, 16, 25 or 34-contact connector





20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Contact (short)
④	Contact (middle)
⑤	Contact (long)
⑥	Locking block
⑦	Small-sized Phillips flat head screw

● **Dimensions**

Part No.	A	B	C	D	E
MR-8RMA( )+	22.4	17.4	26.6	10.0	5.6
MR-16RMA( )+	30.2	25.2	34.4	9.6	6
MR-20RMA( )+	32.8	27.8	37.0		
MR-25RMA( )+	38.0	33.0	42.2		
MR-34RMA( )+	45.8	40.8	50.0		
MR-50RMA( )+	61.4	56.4	65.6		

Mating case: MR-( )L+, MR-( )LW+

Mating connectors with case: MR-( )LF( )+, etc.

Soldering type female connector with brace for panel
MR-( )SRF( )+

RoHS

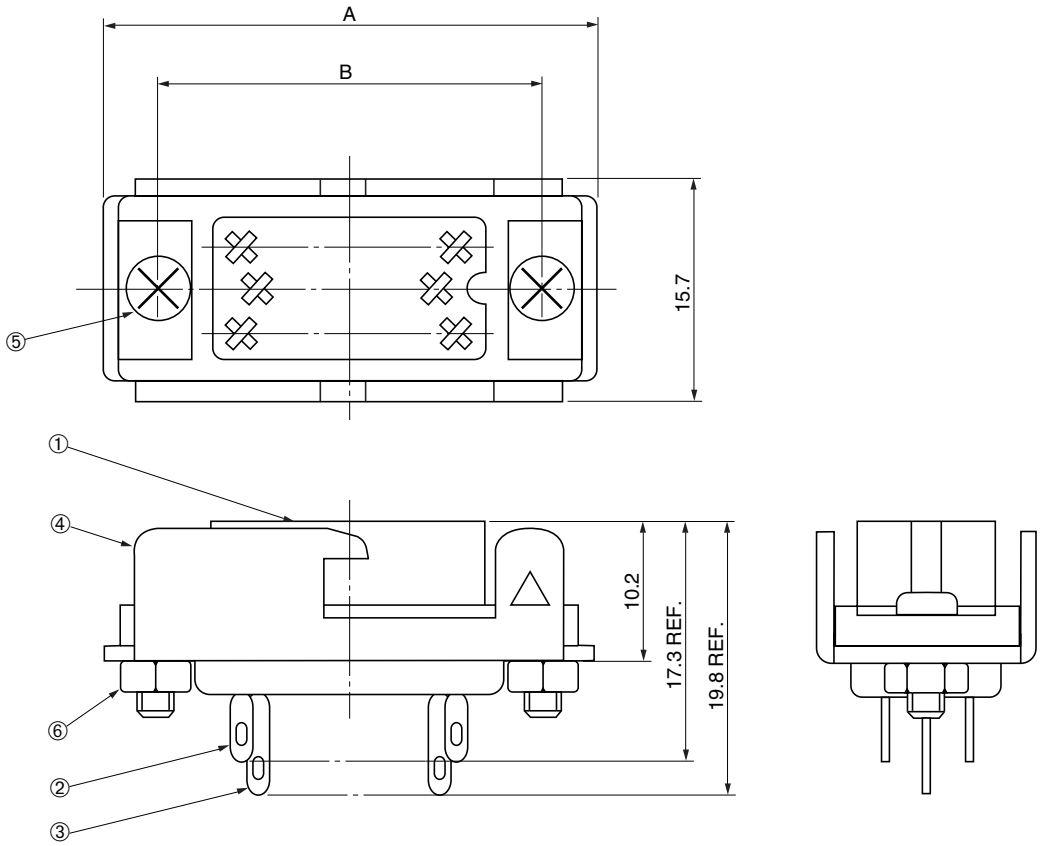
Rectangular connector
For panel
Soldering
With brace



● **Configuration of product Part No.**

MR- ( ) SR F ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace
④ Type of contact: Soldering, female
⑤ Contact plating
None: Silver plate
G : Gold plate



● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)
④	Brace (Appended)
⑤	Small-sized Phillips head screws (Appended)
⑥	Hexagon nuts (Appended)

● **Dimensions**

Part No.	A	B
MR-16SRF ( )+	33.0	25.2
MR-20SRF ( )+		27.8
MR-25SRF ( )+	40.0	33.0
MR-34SRF ( )+	45.0	40.8
MR-50SRF ( )+	67.0	56.4

Mating case: MR-( )NS+

Mating connectors with case: MR-( )NSM( )+, etc.

Soldering type male connector with brace for panel
MR-( )SRM( )+

RoHS

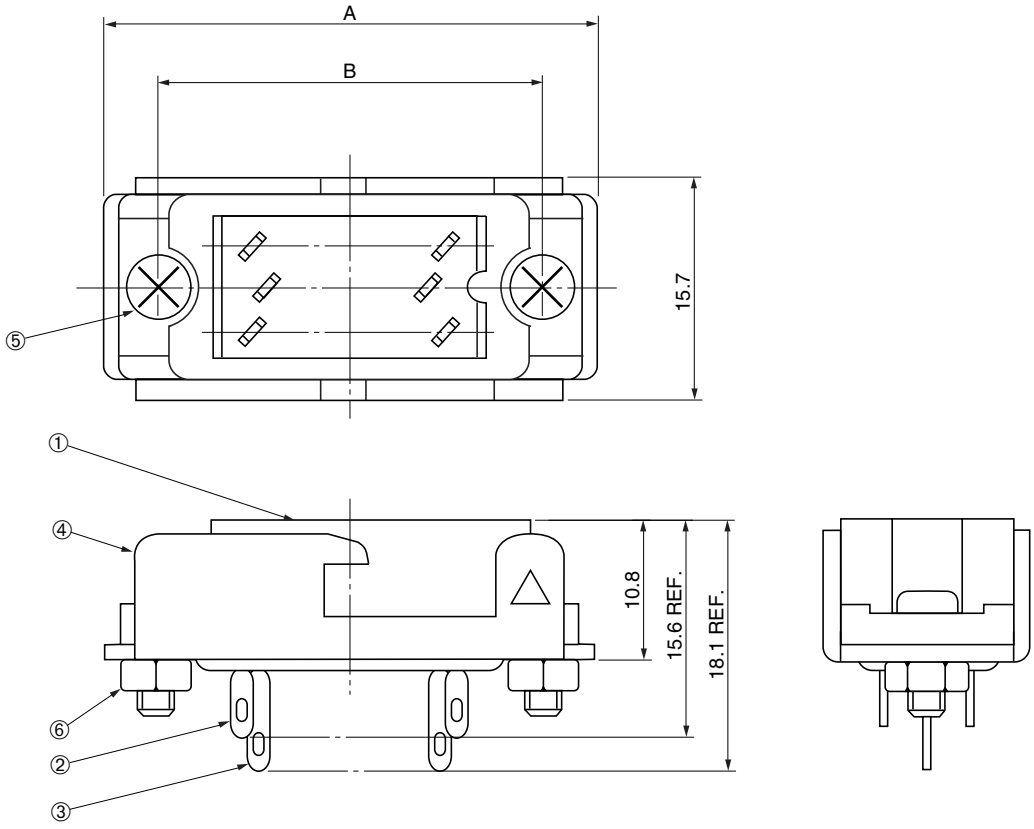
Rectangular connector
For panel
Soldering
With brace



● **Configuration of product Part No.**

MR- ( ) SR M ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace
④ Type of contact: Soldering, male
⑤ Contact plating
None: Silver plate
G : Gold plate



● **Components**

①	Insulator
②	Contact (short)
③	Contact (long)
④	Brace (Appended)
⑤	Small-sized Phillips head screws (Appended)
⑥	Hexagon nuts (Appended)

● **Dimensions**

Part No.	A	B
MR-16SRM( )+	33.0	25.2
MR-20SRM( )+		27.8
MR-25SRM( )+	40.0	33.0
MR-34SRM( )+	45.0	40.8
MR-50SRM( )+	67.0	56.4

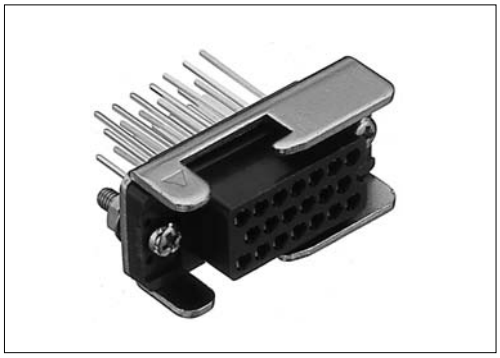
Mating case: MR-( )NS+

Mating connectors with case: MR-( )NSF( )+, etc.

Wire wrapping type female connector with brace for panel MR-( )SRFW( )+

RoHS

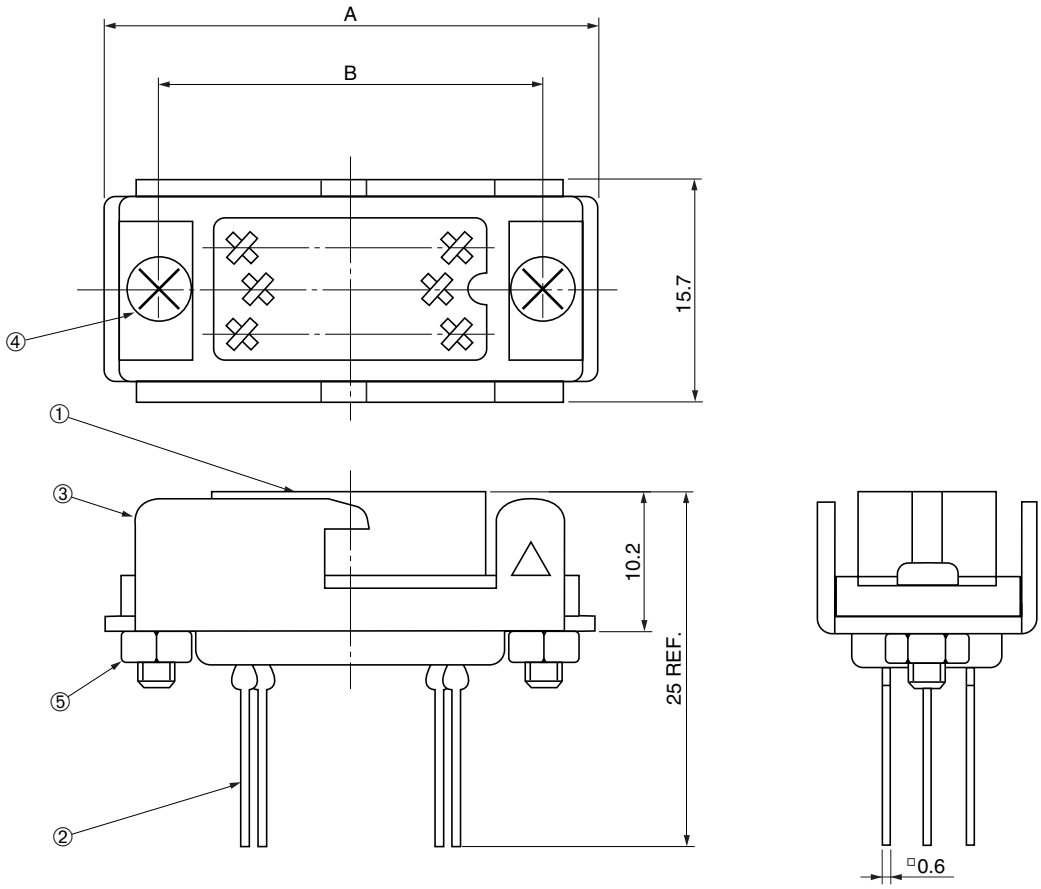
Rectangular connector
For panel
Wire wrapping
With brace



● **Configuration of product Part No.**

MR- ( ) SR FW ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace
④ Type of contact: Wire wrapping, female
⑤ Contact plating
None: Silver plate
G : Gold plate



● **Components**

①	Insulator
②	Contact
③	Brace (Appended)
④	Small-sized Phillips head screws (Appended)
⑤	Hexagon nuts (Appended)

● **Dimensions**

Part No.	A	B
MR-16SRFW( )+	33.0	25.2
MR-20SRFW( )+		27.8
MR-25SRFW( )+	40.0	33.0
MR-34SRFW( )+	45.0	40.8
MR-50SRFW( )+	67.0	56.4

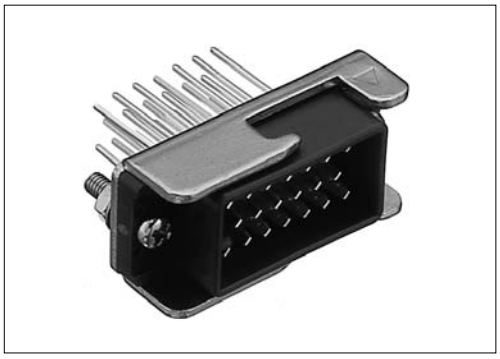
Mating case: MR-( )NS+

Mating connectors with case: MR-( )NSM( )+, etc.

Wire wrapping type male connector with brace for panel MR-( )SRMW( )+

RoHS

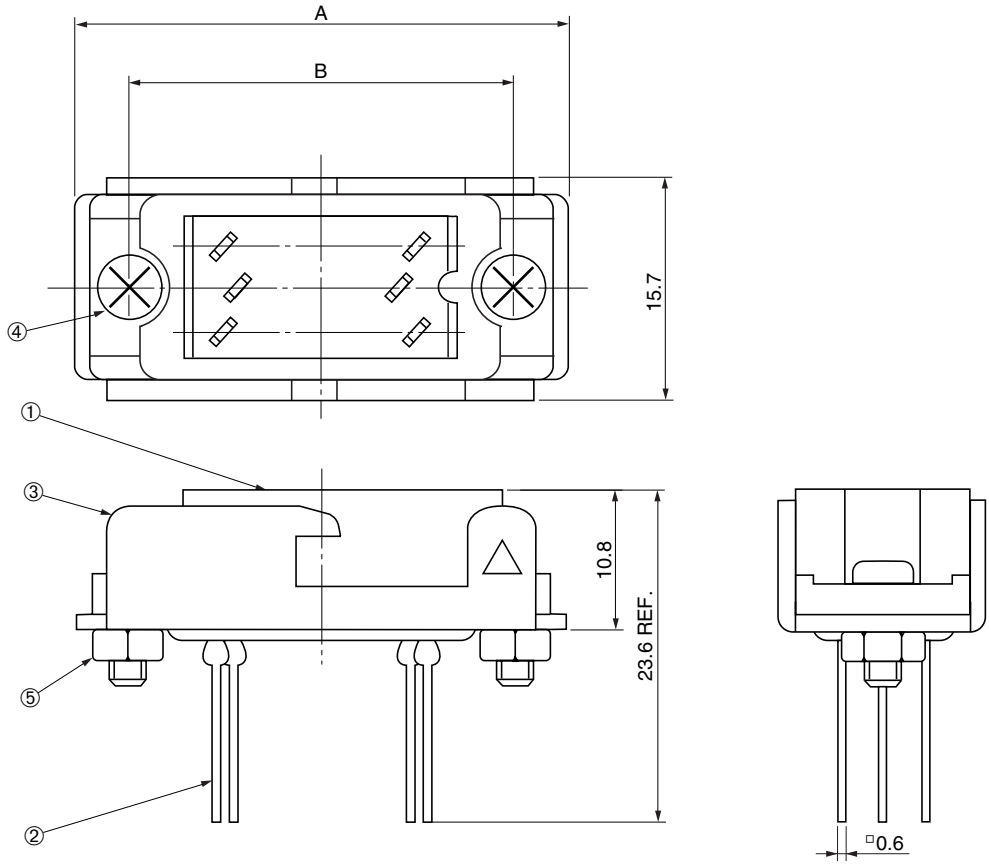
Rectangular connector
For panel
Wire wrapping
With brace



● **Configuration of product Part No.**

MR- ( ) SR MW ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace
④ Type of contact: Wire wrapping, male
⑤ Contact plating
None: Silver plate
G : Gold plate



● **Components**

①	Insulator
②	Contact
③	Brace (Appended)
④	Small-sized Phillips head screw (Appended)
⑤	Hexagon nut (Appended)

● **Dimensions**

Part No.	A	B
MR-16SRMW( )+	33.0	25.2
MR-20SRMW( )+		27.8
MR-25SRMW( )+	40.0	33.0
MR-34SRMW( )+	45.0	40.8
MR-50SRMW( )+	67.0	56.4

Mating case: MR-( )NS+

Mating connectors with case: MR-( )NSF( )+, etc.

Rectangular connector
For PCB
Straight Through hole
With brace

Straight through hole type female connector with brace for PCB
MR-( )SRFD2( )+

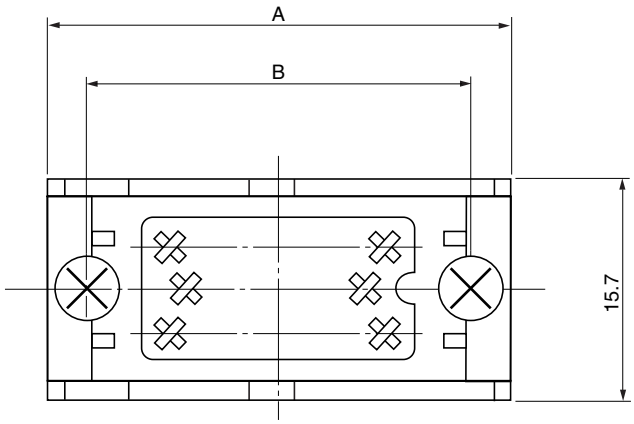
RoHS

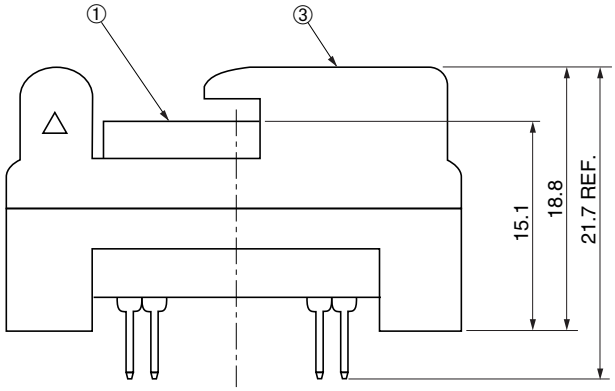


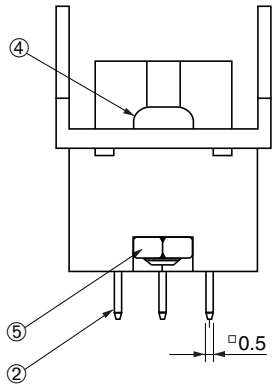
● **Configuration of product Part No.**

MR- ( ) SR FD2 ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace for skew type case
④ Type of contact: Straight through hole, female
⑤ Contact plating
None: Silver plate
G : Gold plate







● **Components**

①	Insulator
②	Contact
③	Brace
④	Small-sized Phillips head screw
⑤	Hexagon nut

● **Dimensions**

Part No.	A	B
MR-16SRFD2( )+	33.0	25.2
MR-20SRFD2( )+		27.8
MR-25SRFD2( )+	40.0	33.0
MR-34SRFD2N( )+	45.0	40.8
MR-50SRFD2( )+	67.0	56.4

Mating case: MR-( )NSA+

Mating connectors with case: MR-( )NS2M( )+, etc.

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Rectangular connector
For PCB
Straight Through hole
With brace

Straight through hole type male connector with brace for PCB
MR-( )SRMD2( )+

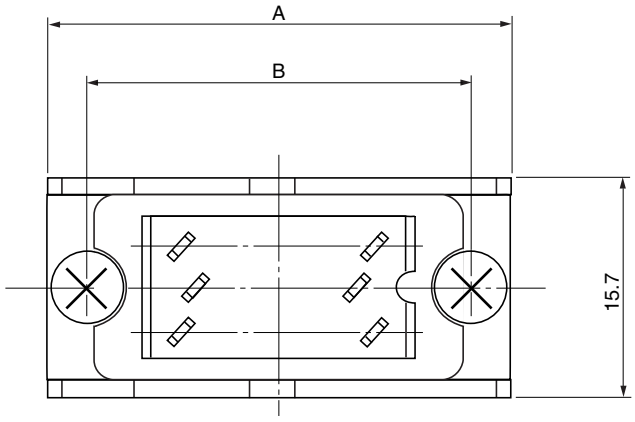
RoHS

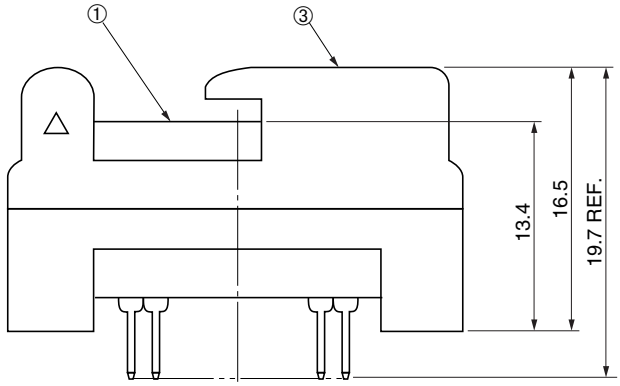


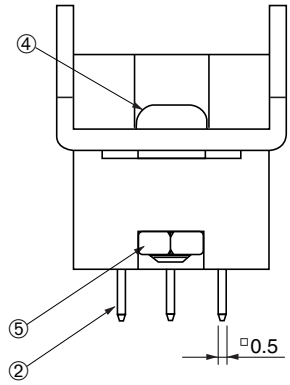
● **Configuration of product Part No.**

MR- ( ) SR MD2 ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace for skew type case
④ Type of contact: Straight through hole, male
⑤ Contact plating
None: Silver plate
G : Gold plate







● **Components**

①	Insulator
②	Contact
③	Brace
④	Small-sized Phillips head screw
⑤	Hexagon nut

● **Dimensions**

Part No.	A	B
MR-16SRMD2( )+	33.0	25.2
MR-20SRMD2( )+		27.8
MR-25SRMD2( )+	40.0	33.0
MR-34SRMD2N( )+	45.0	40.8
MR-50SRMD2( )+	67.0	56.4

Mating case: MR-( )NS+

Mating connectors with case: MR-( )NS2F( )+, etc.

Rectangular connector
For PCB
Right-angle Through hole
With brace

Right-angle through hole type female connector with brace for PCB
MR-( )SRFA( )+

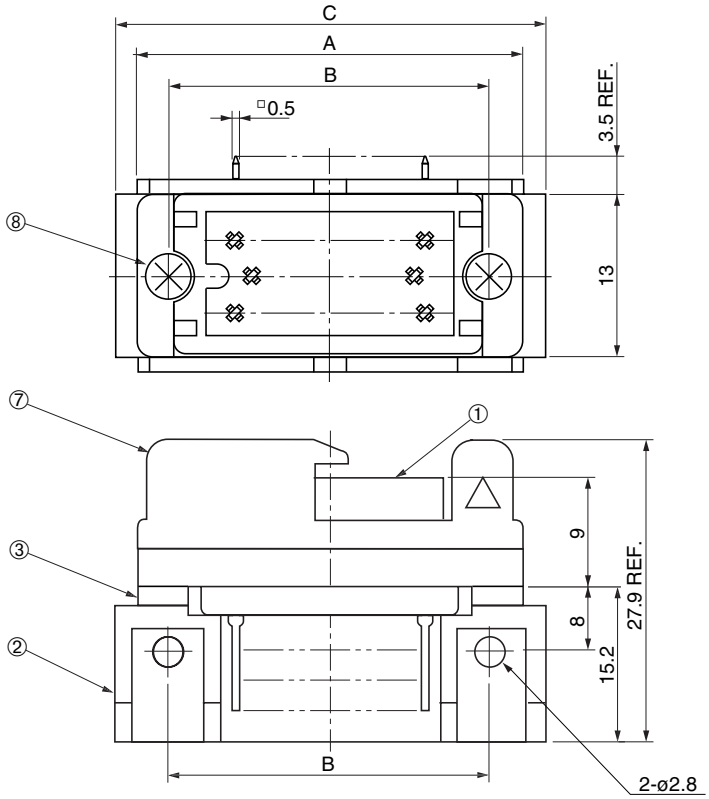
RoHS

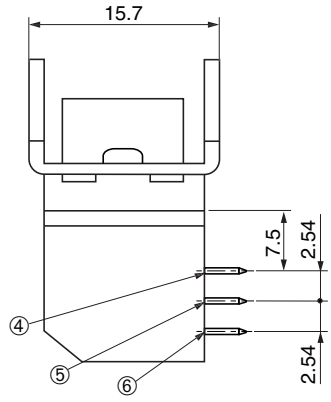


● **Configuration of product Part No.**

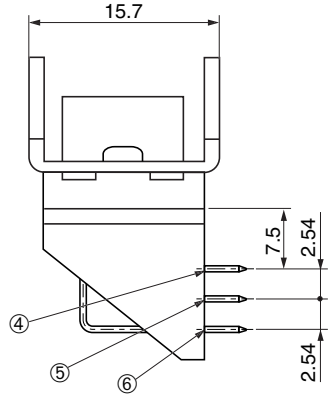
MR- ( ) SR FA ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace for skew type case
④ Type of contact: Right-angle through hole, female
⑤ Contact plating
None: Silver plate
G : Gold plate





16, 25 or 34-contact connector



20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Spacer
④	Contact (short)
⑤	Contact (middle)
⑥	Contact (long)
⑦	Brace
⑧	Tapping screw

* 25 contacts are rivets.

● **Dimensions**

Part No.	A	B	C
MR-16SRFA( )+	33.0	25.2	34.4
MR-20SRFA( )+		27.8	37.0
MR-25SRFA( )+	40.0	33.0	42.2
MR-34SRFAN( )+	45.0	40.8	50.0
MR-50SRFA( )+	67.0	56.4	65.6

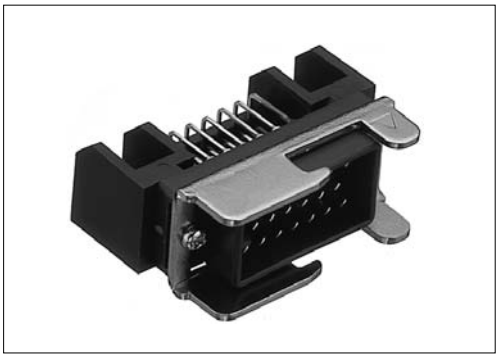
Mating case: MR-( )NSA+

Mating connectors with case: MR-( )NS2M( )+, etc.

Rectangular connector
For PCB
Right-angle Through hole
With brace

Right-angle through hole type male connector with brace for PCB
MR-( )SRMA( )+

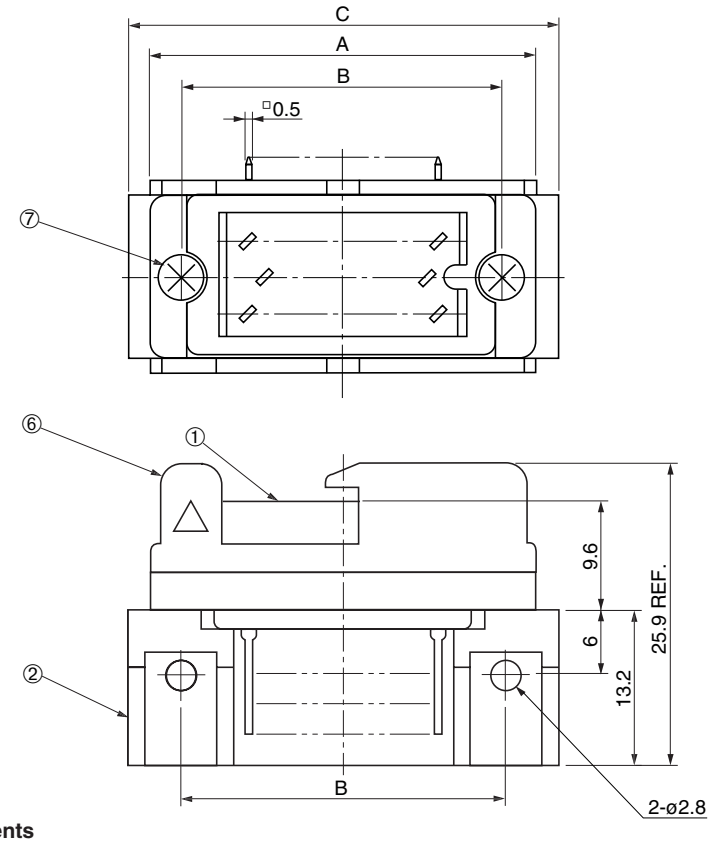
RoHS

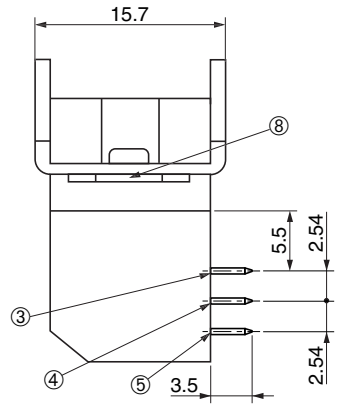


● **Configuration of product Part No.**

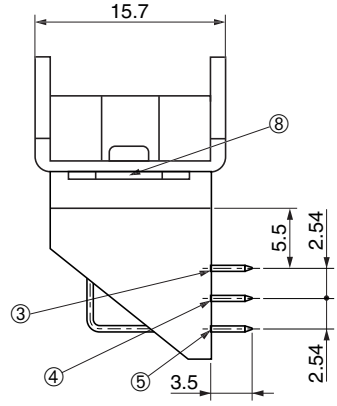
MR- ( ) SR MA ( )+
① ② ③ ④ ⑤

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With brace for skew type case
④ Type of contact: Right-angle through hole, male
⑤ Contact plating
None: Silver plate
G : Gold plate





16, 25 or 34-contact connector



20 or 50-contact connector

● **Components**

①	Insulator
②	Bracket
③	Contact (short)
④	Contact (middle)
⑤	Contact (long)
⑥	Brace
⑦	Tapping screw
⑧	Spring washer

● **Dimensions**

Part No.	A	B	C
MR-16SRMA( )+	33.0	25.2	34.4
MR-20SRMA( )+		27.8	37.0
MR-25SRMA( )+	40.0	33.0	42.2
MR-34SRMAN( )+	45.0	40.8	50.0
MR-50SRMA( )+	67.0	56.4	65.6

Mating case: MR-( )NS+

Mating connectors with case: MR-( )NS2F( )+, etc.

Vertical type plastic case
MR-( )L+

RoHS

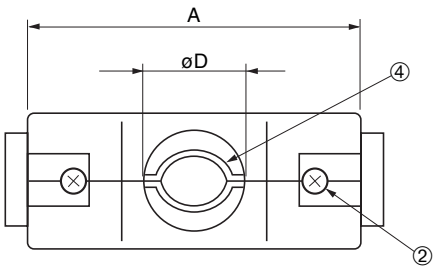
Rectangular connector
Case
Vertical type
Dual spring and screw locking

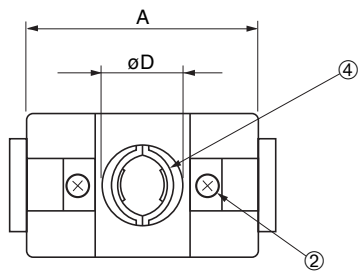


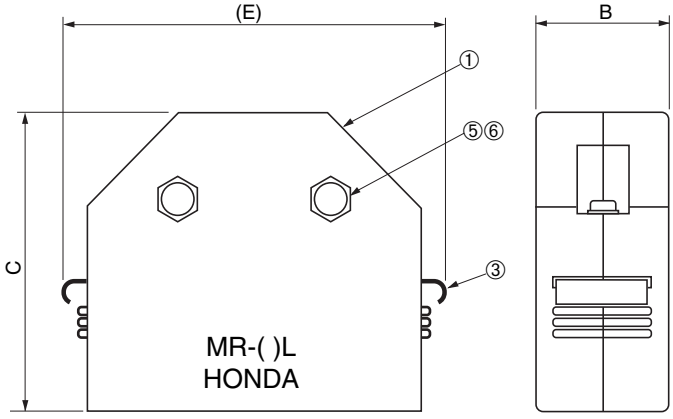
● **Configuration of product Part No.**

MR- ( ) L+
① ② ③

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of case: Vertical

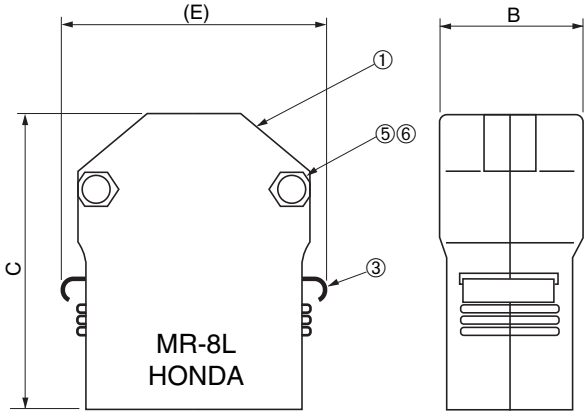






Note: Capable of dual spring and screw locking

For MR-(16~50)L+



For MR-8L+

● **Components**

①	Case body
②	Locking screw
③	Spring lock
④	Cable clamp
⑤	Small-sized Phillips head screw
⑥	Hexagon nut

● **Dimensions**

Part No.	A	B	C	øD	E (Reference)
MR-8L+	31.0	19	39.8	11	36.6
MR-16L+	36.7	18		9	42.5
MR-20L+	39.3			11	45.1
MR-25L+	44.5		40.5	13.5	50.3
MR-34L+	52.3			15	58.1
MR-50L+	67.9		44.8	16	73.7

Applicable connectors: Female : MR-( )F( ), MR-( )FW( ), MRP-( )F01
Male : MR-( )M( ), MR-( )MW( ), MRP-( )M01

Mating connectors: Female : MR-( )RF( )+, MR-( )RFW( )+, MR-( )RFD2( )+, MR-( )RFA( )+, etc.
Male : MR-( )RM( )+, MR-( )RMW( )+, MR-( )RMD2( )+, MR-( )RMA( )+, etc.

Vertical type plastic case for junction
MR-( )LK2+

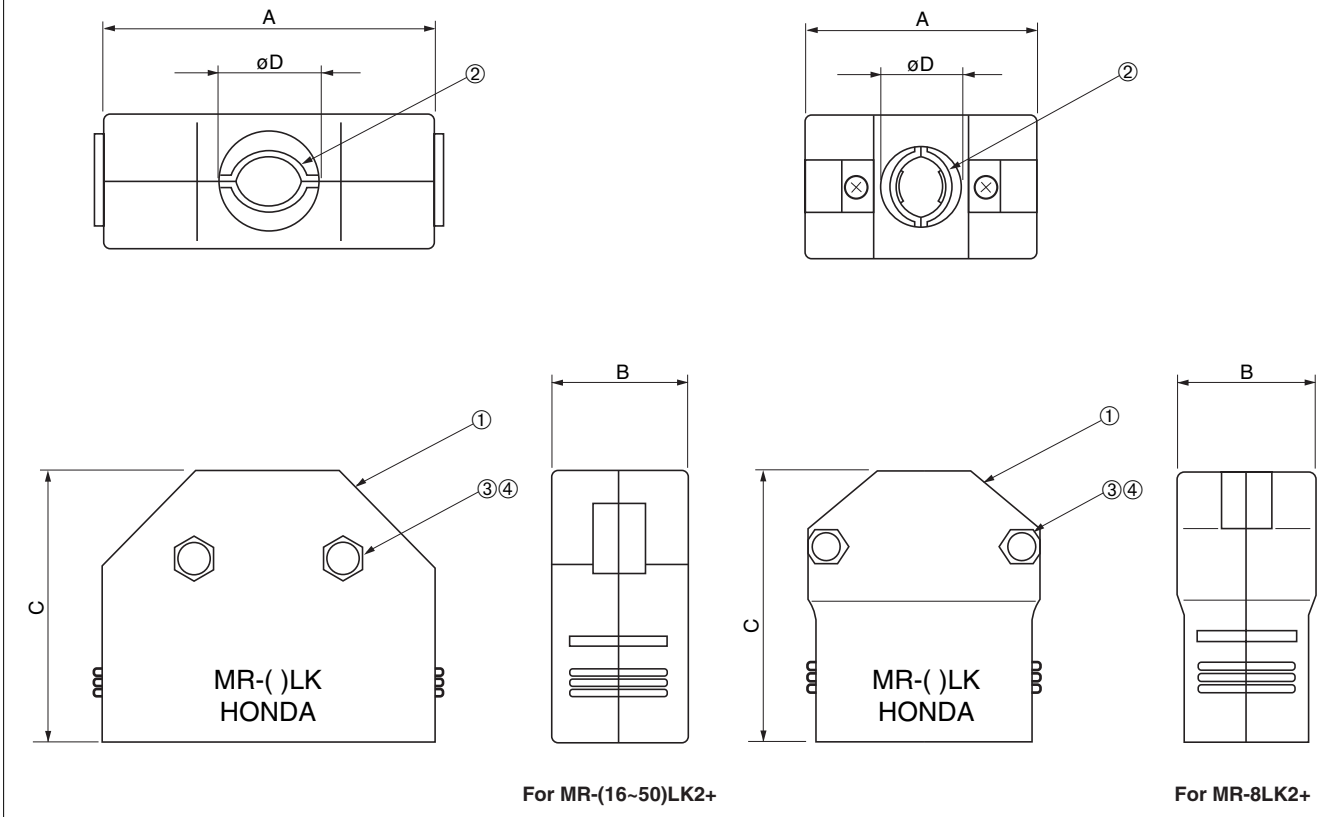
RoHS



● **Configuration of product Part No.**

MR- ( ) LK2+
① ② ③

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Type of case: For junction



For MR-(16~50)LK2+

For MR-8LK2+

Note: For 8, 25 or 34-contact connector, the Part No. of MR-( )L is marked on the case instead of MR-( )LK.

● **Components**

①	Case body
②	Cable clamp
③	Small-sized Phillips head screw
④	Hexagon nut

● **Dimensions**

Part No.	A	B	C	øD
MR-8LK2+	31	19	36.1	11
MR-16LK2+	36.7	18	35.8	9
MR-20LK2+	39.3			11
MR-25LK2+	44.5		36.5	13.5
MR-34LK2+	52.3			15
MR-50LK2+	67.9		40.8	16

Applicable connectors: Female: MR-( )RF( )+, MR-( )RFW( )+, MRP-( )RF01+
Male : MR-( )RM( )+, MR-( )RMW( )+, MRP-( )RM01+

Mating connectors with case: Female: MR-( )LF( )+, MR-( )LFW( )+, etc.
Male : MR-( )LM( )+, MR-( )LMW( )+, etc.

Dual-purpose vertical and horizontal type plastic case MR-( )LW+

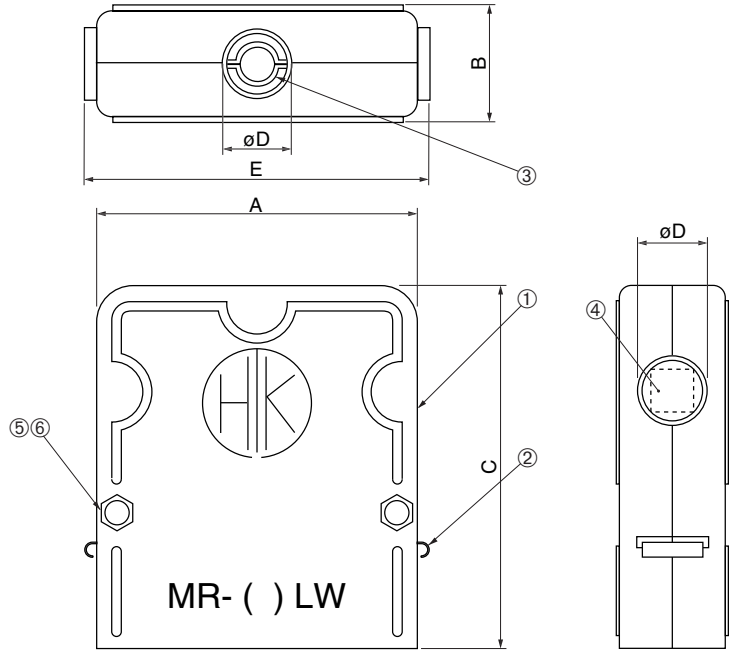
RoHS



● **Configuration of product Part No.**

MR- ( ) LW+
① ② ③

① Series name
② No. of contacts: 8, 16, 20, 25, 34, 50 or 60
③ Type of case: Dual-purpose vertical and horizontal type



Note 1: Plate spring for latching is not provided for the MR-8LW+ products.

● **Components**

①	Case body
②	Spring lock
③	Cable clamp
④	Cap
⑤	Small-sized Phillips head screw
⑥	Hexagon nut

Note 2: In the MR-8LW+ plastic case, the male or female connectors with mounting hardware, such as MR-8RM( ) or MR-8RF( ), which have an "R" sign at the head of the M or F in the Product Part No., may not be used.

● **Dimensions**

Part No.	A	B	C	D	E
MR-8LW+	25.6	17	38.0	6.0	—
MR-16LW+	36.7		47.0	9.0	(42.3)
MR-20LW+	39.3	18		11.0	(44.9)
MR-25LW+	44.5	19	56.0	13.5	(50.1)
MR-34LW+	52.3		58.3	15.0	(57.9)
MR-50LW+	67.9	20	66.1	16.0	(73.5)
MR-60LW+	66.9	22	68.0	18.0	(71.7)

Applicable connectors: Female : MR-(8~60)F( ), MR-(8~60)FW( ), MRP-( )F01
Male : MR-(8~60)M( ), MR-(8~60)MW( ), MRP-( )M01

Mating connectors: Female : MR-8F( ), MR-8FW( ), MR-8FD2( )
MR-(16~60)RF( )+, MR-(16~60)RFW( )+, MR-(16~50)RFD2( )+, MR-(16~50)RFA( )+
Male : MR-8M( ), MR-8MW( ), MR-8MD2( )
MR-(16~60)RM( )+, MR-(16~60)RMW( )+, MR-(16~50)RMD2( )+, MR-(16~50)RMA( )+

Skew type plastic case
MR-( )NS+

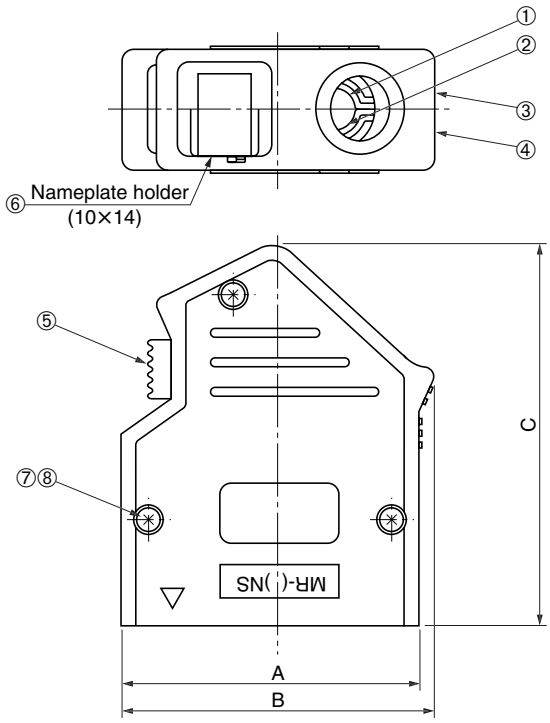
RoHS



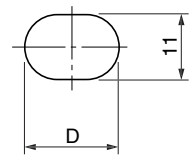
● **Configuration of product Part No.**

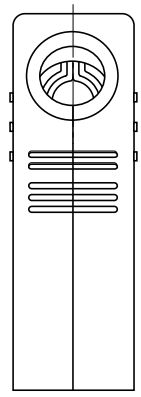
MR- ( ) NS+
① ② ③

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ Type of case: Skew type (with push button lock)



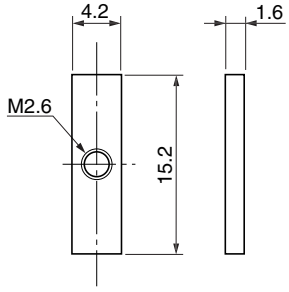
Cable hole dimensions





● **Components**

①	Cable clamp A
②	Cable clamp B
③	Case A
④	Case B
⑤	Push button
⑥	Clear board
⑦	Small-sized Phillips head screw
⑧	Hexagon nut



Mounting block (included with the product)

● **Dimensions**

Part No.	A	B	C	D
MR-16NS+	37	39	59	11
MR-20NS+				
MR-25NS+	44	46	62	13
MR-34NS+	49	51	64	16
MR-50NS+	71	73	76	24

Applicable connectors: Female : MR-( )F, MR-( )FW( )
Male : MR-( )M( ), MR-( )MW( )

Mating connectors (panel mounted type): Female : MR-( )SRF( )+, MR-( )SRFW( )+
Male : MR-( )SRM( )+, MR-( )SRMW( )+

Skew type plastic case
MR-( )NSA+

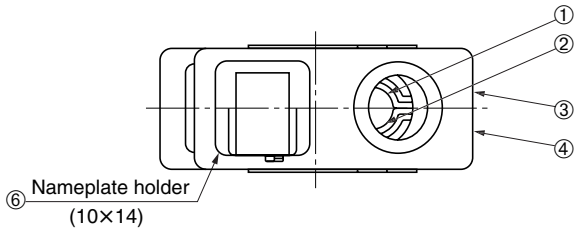
RoHS

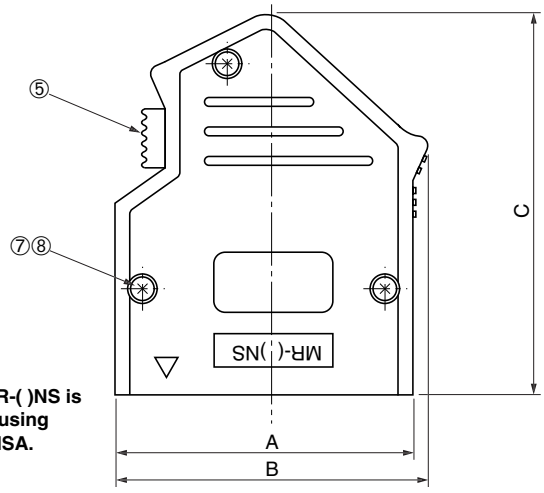


● **Configuration of product Part No.**

MR- ( ) NSA+
① ② ③

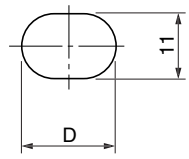
① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ Type of case: Skew type (with puch button lock)

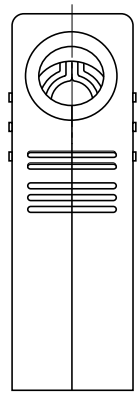


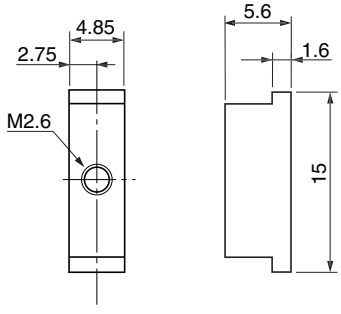


Note: The Part No. of MR-( )NS is marked on the housing instead of MR-( )NSA.

Cable hole dimensions







Mounting block (included with the product)

● **Components**

①	Cable clamp A
②	Cable clamp B
③	Case A
④	Case B
⑤	Push button
⑥	Clear board
⑦	Small-sized Phillips head screw
⑧	Hexagon nut

● **Dimensions**

Part No.	A	B	C	D
MR-16NSA+	37	39	59	11
MR-20NSA+				
MR-25NSA+	44	46	62	13
MR-34NSA+	49	51	64	16
MR-50NSA+	71	73	76	24

Applicable connectors: Female : MR-( )F( ), MR-( )FW( )
Male : MR-( )M( ), MR-( )MW( )

Mating connectors (PCB mounted type): Female : MR-( )SRFD2( )+, MR-( )SRFA( )+
Male : MR-( )SRMD2( )+, MR-( )SRFA( )+

Skew type plastic case
MR-( )NSB+

RoHS

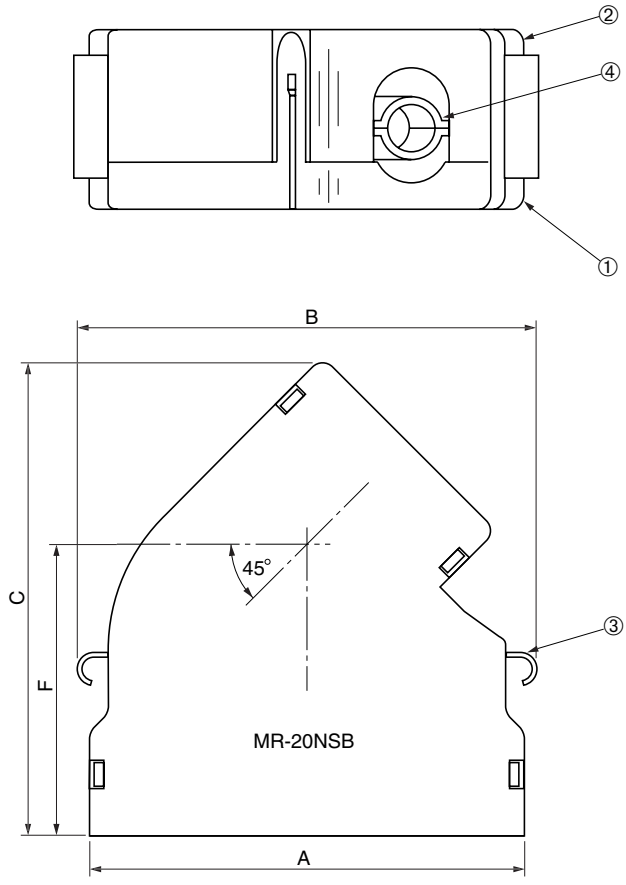
Rectangular connector
Case
Skew type
Spring lock



● **Configuration of product Part No.**

MR- ( ) NSB+
① ② ③

① Series name
② No. of contacts: 20 or 50
③ Type of case: Skew type



● **Components**

①	Case A
②	Case B
③	Spring lock
④	Cable clamp

● **Dimensions**

Part No.	A	B	C	D	E	F
MR-20NSB+	42.3	46	47	11	17	28.2
MR-50NSB+	71.3	75	61	16		27

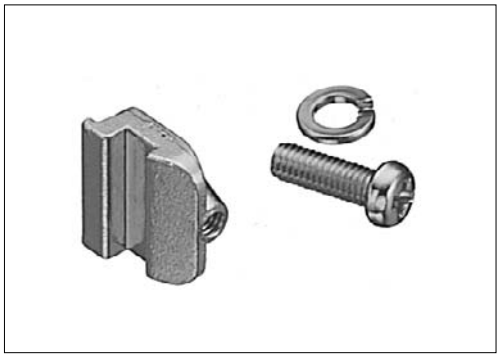
Applicable connectors: Female: MR-( )F( ), MR-( )FW( ), MRP-( )F01
Male : MR-( )M( ), MR-( )MW( ), MRP-( )M01

Mating connectors: Female: MR-( )RF( )+, MR-( )RFW( )+, MR-( )RFD2( )+, MR-( )RFA( )+, etc.
Male : MR-( )RM( )+, MR-( )RMW( )+, MR-( )RMD2( )+, MR-( )RMA( )+, etc.

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

Locking block kit
MR-R( )+

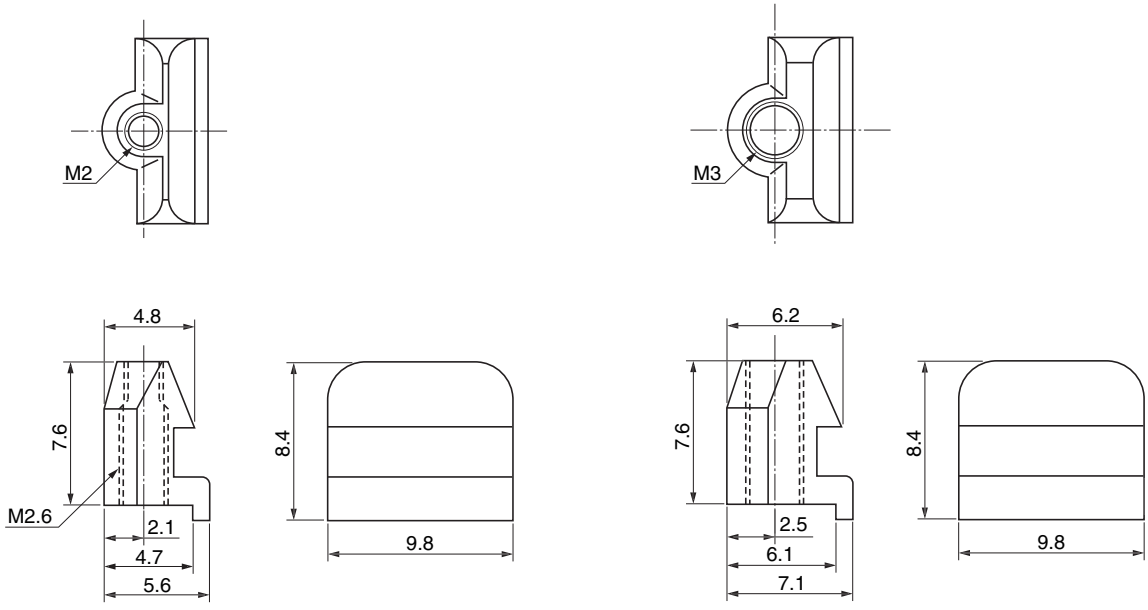
RoHS



● **Configuration of product Part No.**

MR- R ( )+
① ② ③

① Series name
② Locking block
③ For use with connector
4: 8, 16, 20, 34 or 50 contacts
6: 60 contacts



MR-R4+

Note 1: Included in this kit are, locking block (MR-R+), a small-sized Phillips head screw and a spring washer.

MR-R6+

Note 2: Included in this kit are, locking block (MR-R2+), a small-sized Phillips head screw and a spring washer.

Note 3: This kit cannot be used for right-angle type connectors. Two kits are required for one connector.

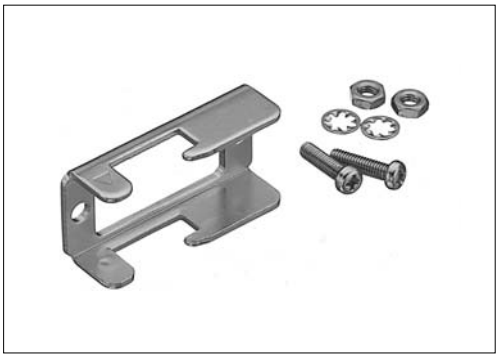
● **Components**

①	Locking block
②	Spring washers (Appended)
③	Small-sized Phillips head screws (Appended)

Applicable connectors: MR-( )F( ), MR-( )M( ), MR-( )FW, MR-( )MW, MR-( )FD2( ), MR-( )MD2( )

Brace kit
MR-( )SR+

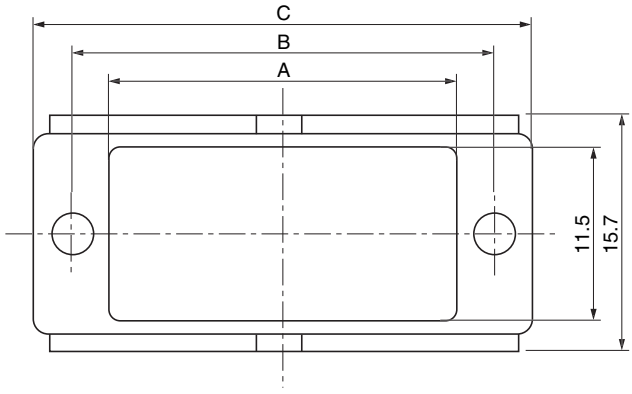
RoHS

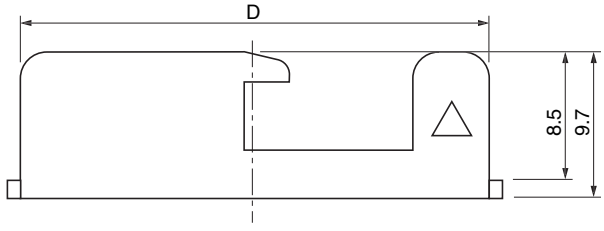


● **Configuration of product Part No.**

MR- ( ) SR+
① ② ③

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ Brace for panel mounted connector





t=1.2

● **Components**

①	Brace
②	Hexagon nuts (Appended)
③	Small-sized Phillips head screws (Appended)
④	Toothed lock washers (Appended)

Note : Included in this kit are brace, two small-sized Phillips head screws, two hexagon nuts, and two toothed lock washers.

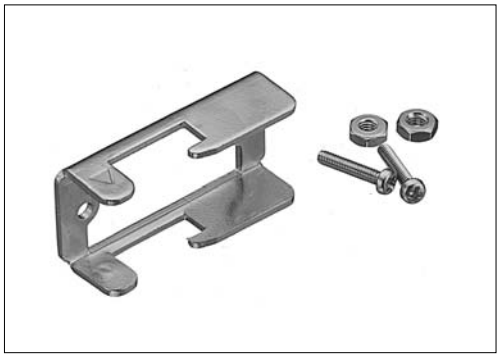
● **Dimensions**

Part No.	A	B	C	D
MR-16SR+	20.0	25.2	33.0	31.0
MR-20SR+	22.6	27.8		
MR-25SR+	27.8	33.0	40.0	36.0
MR-34SR+	35.6	40.8	45.0	41.0
MR-50SR+	51.2	56.4	67.0	63.0

Applicable connectors: MR-( )F( ), MR-( )M( ), MR-( )FW, MR-( )MW

Brace kit
MR-( )SRA( )+

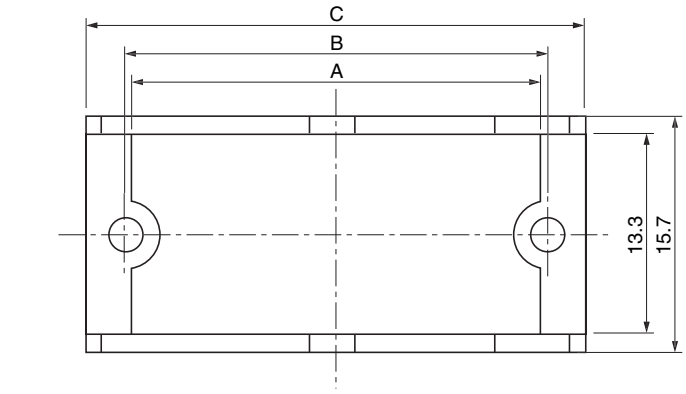
RoHS

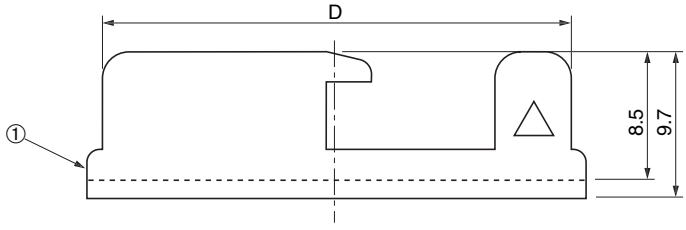


● **Configuration of product Part No.**

MR- ( ) SRA ( )+
① ② ③ ④

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ Brace for through hole type connector
④ For use with connector
None: 16 or 20 contacts
N : 25, 34 or 50 contacts





t=1.2

● **Components**

①	Brace
②	Hexagon nuts (Appended)
③	Small-sized Phillips head screws (Appended)

Note 1: This kit cannot be used for right-angle type connectors.
Note 2: Included in this kit are brace, two small-sized Phillips head screws and two hexagon nuts.

● **Dimensions**

Part No.	A	B	C	D
MR-16SRA+	24.6	25.2	33.0	31.0
MR-20SRA+	27.2	27.8		
MR-25SRAN+	32.4	33.0	40.0	36.0
MR-34SRAN+	40.2	40.8	45.0	41.0
MR-50SRAN+	55.8	56.4	67.0	63.0

Applicable connectors: MR-( )FD2( ), MR-( )MD2( )

Dust cover for female connector
MR-( )CF

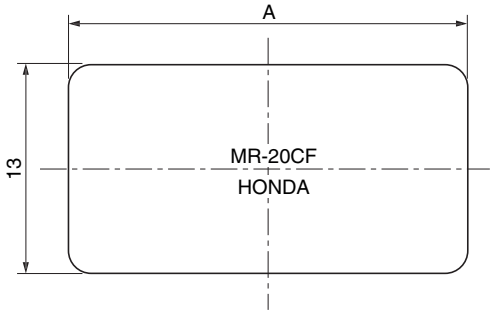
RoHS

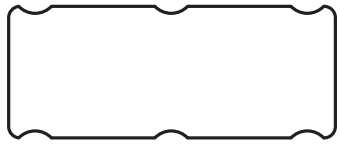


● **Configuration of product Part No.**

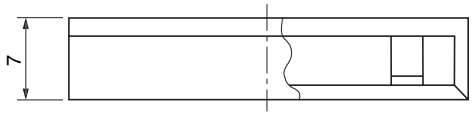
MR- ( ) CF
① ② ③

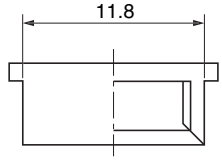
① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ Dust cover for female connector

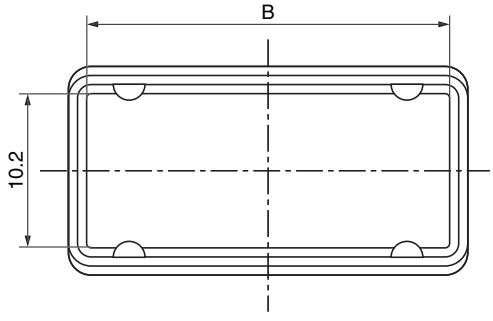




For the MR-34 and MR-50CF dust covers, six protrusions are provided on the edge of the cover instead of four as shown above.







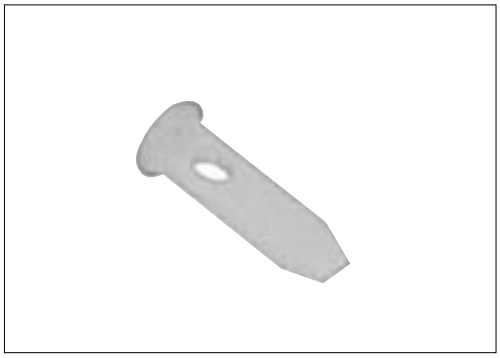
● **Dimensions**

Part No.	A	B
MR-16CF	19.6	18.0
MR-20CF	22.2	20.6
MR-25CF	27.4	25.8
MR-34CF	35.2	33.6
MR-50CF	50.8	49.2

Applicable connectors: MR and MRH series female connectors

Key for preventing misinsertion
MR-PK

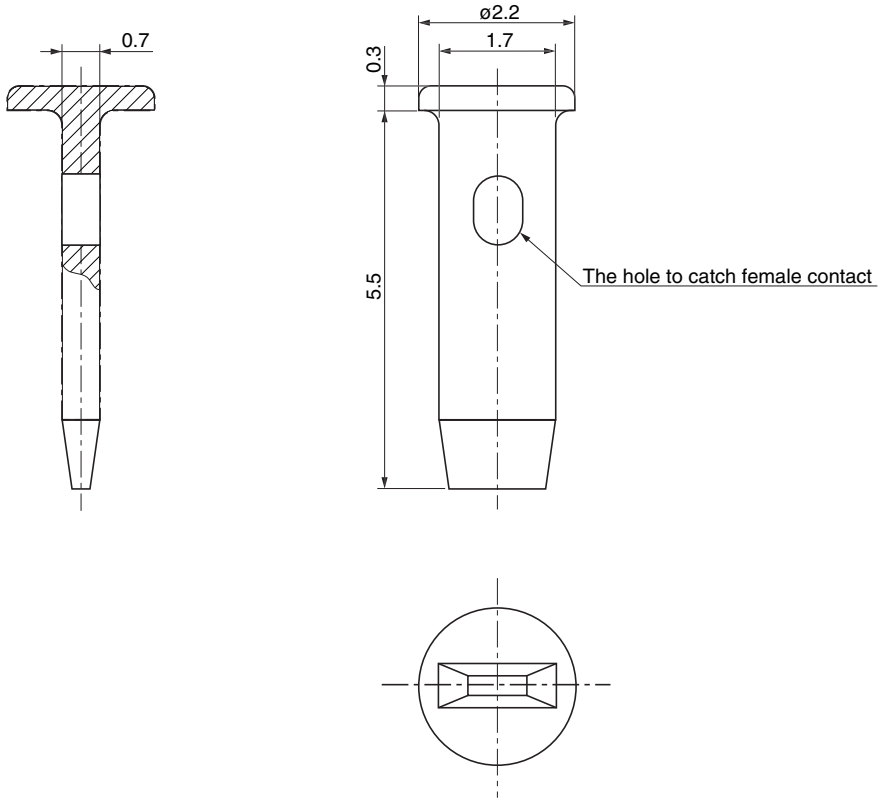
RoHS



● **Configuration of product Part No.**

MR- PK
① ②

① Series name
② Key for preventing misinsertion



• How to use
In the state where contact was included in the insulator, this article is inserted from the mating side of a female contact. The female contact with the polarizing key once inserted can not be used.

Applicable connectors: MR and MRH series female connectors

Tool for extracting male contact
MR-K1

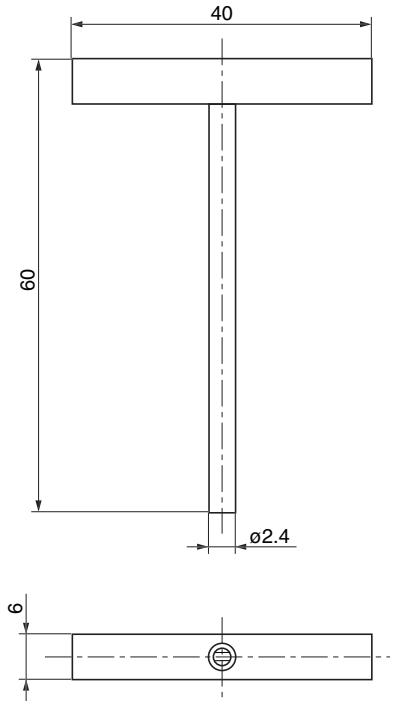
RoHS

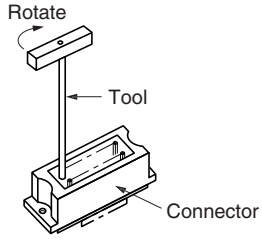


● **Configuration of product Part No.**

MR- K1
① ②

① Series name
② Tool for extracting male contact





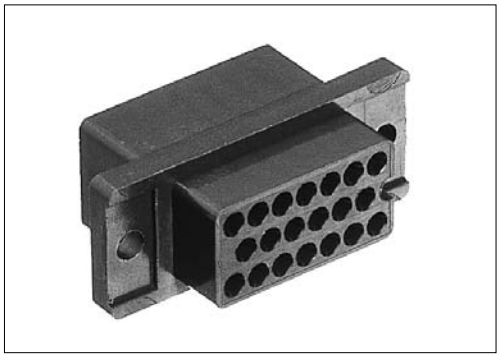
• How to use

1. **The male contact insertion hole of this tool is inserted in a male contact from a mating side.**
2. **Rotate the handle while pushing the tool to the bottom of insulator and twist the male contact cut.**
3. **Remove twisted male contact tip part from the tool.**

Applicable connectors: MR and MRH series male connectors

Crimping type female insulator for panel
MRP-( )F01

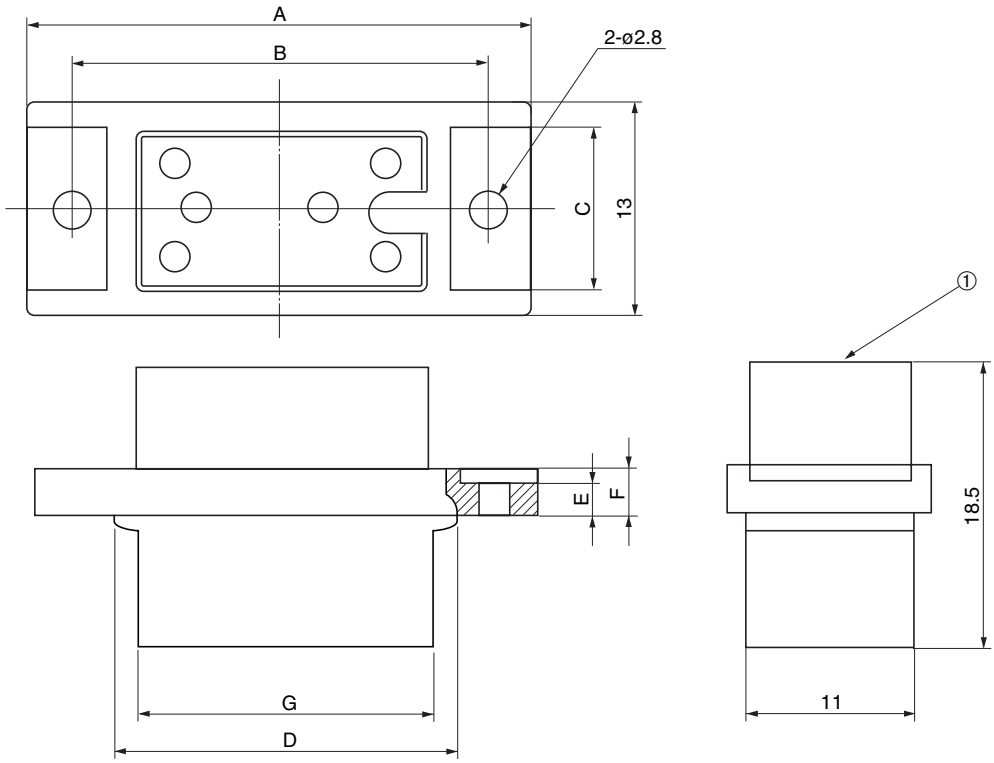
RoHS



● **Configuration of product Part No.**

MRP- ( ) F01
① ② ③

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Female insulator



● **Dimensions**

Part No.	A	B	C	D	E	F	G
MRP-8F01	22.4	17.4	5	11.9	1.9	3.4	—
MRP-16F01	30.2	25.2		19.7			
MRP-20F01	32.8	27.8		22.3			21.3
MRP-25F01	38.0	33.0	10	27.5	2.4	3	
MRP-34F01	45.8	40.8		35.3			—
MRP-50F01	61.4	56.4		50.9			

● **Components**

①	Insulator

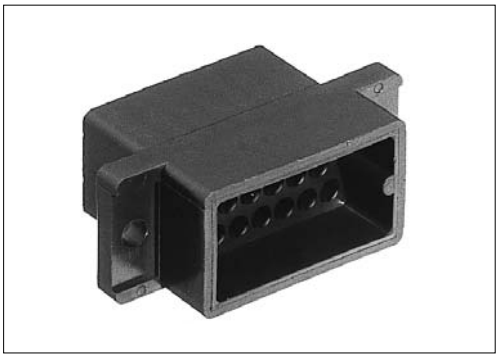
Applicable contacts: MRP-F1( )( )

Applicable case: MR-( )L+, MR-( )LW+

Mating connectors: MR and MRH series male connectors

Crimping type male insulator for panel
MRP-( )M01

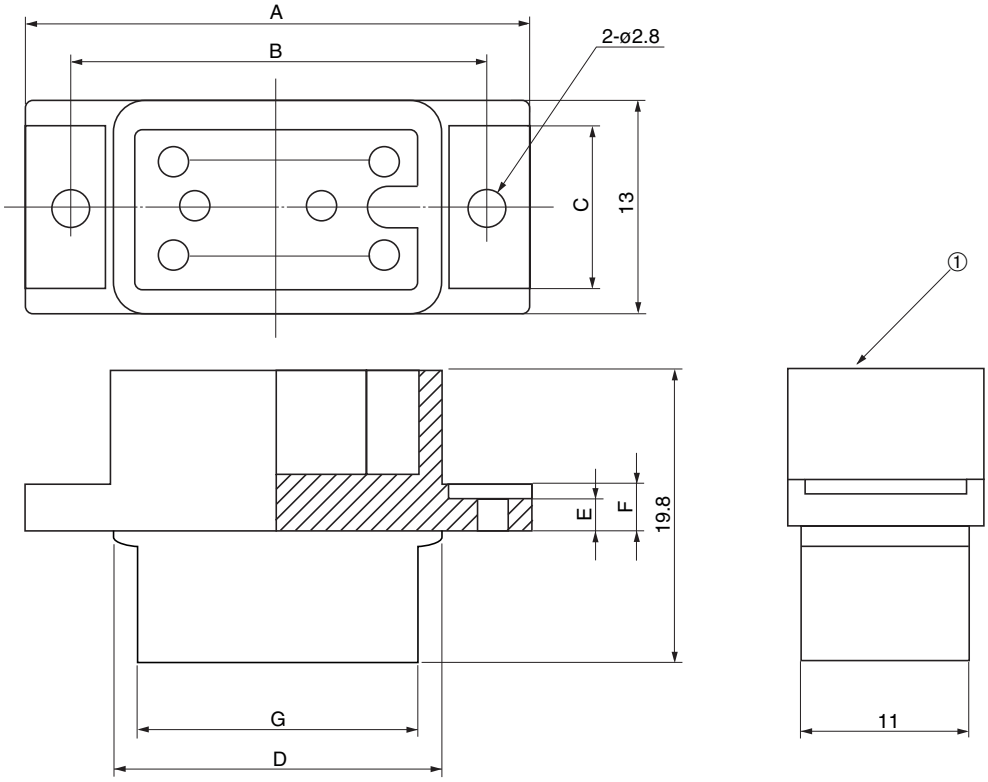
RoHS



● **Configuration of product Part No.**

MRP- ( ) M01
① ② ③

① Series name
② No. of contacts: 8, 16, 20, 25, 34 or 50
③ Male insulator



● **Dimensions**

Part No.	A	B	C	D	E	F	G
MRP-8M01	22.4	17.4	5	11.9	2.8	3.4	—
MRP-16M01	30.2	25.2	10	19.7	2.4	3	21.3
MRP-20M01	32.8	27.8		22.3			
MRP-25M01	38.0	33.0		27.5			—
MRP-34M01	45.8	40.8		35.3			
MRP-50M01	61.4	56.4		50.9			

● **Components**

①	Insulator

Applicable contacts: MRP-M1( )( )

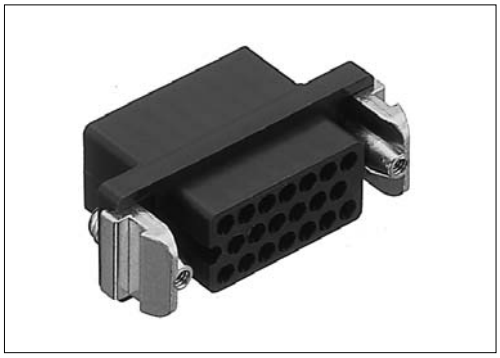
Applicable case: MR-( )L+, MR-( )LW+

Mating connectors: MR and MRH series female connectors

Crimping type female insulator with locking block for panel
MRP-( )RF01+

RoHS

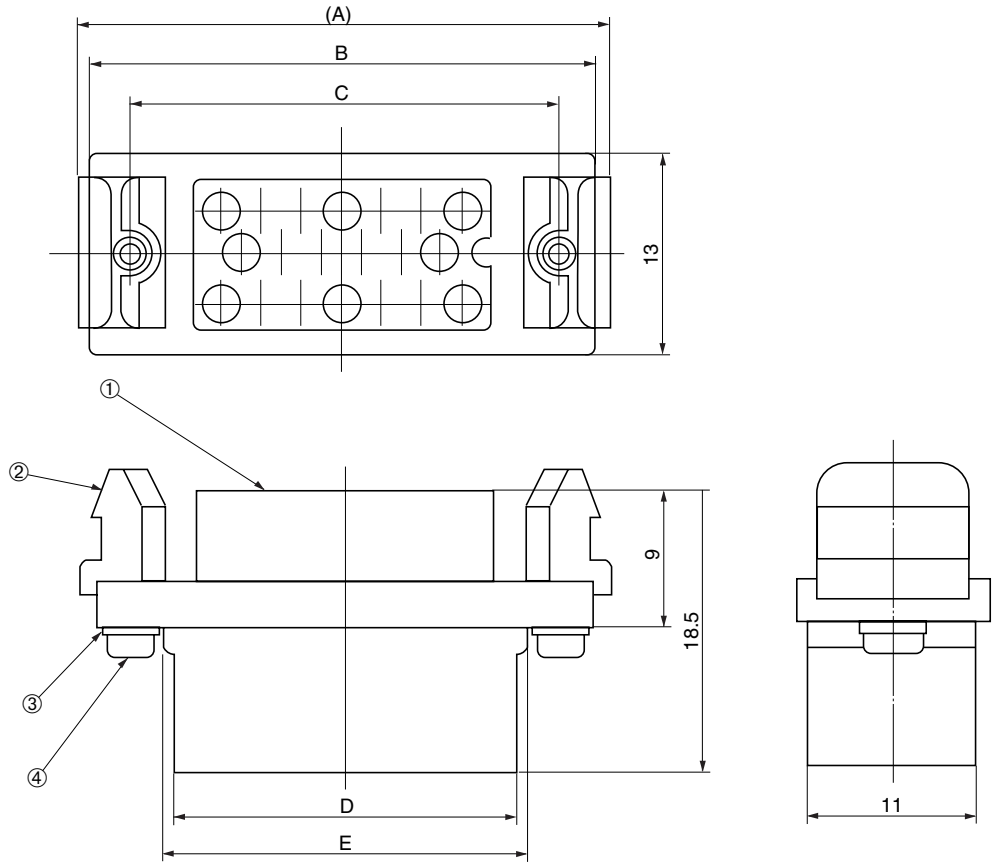
Rectangular connector
For panel
Crimping
With locking block



● **Configuration of product Part No.**

MRP- ( ) R F01+
① ② ③ ④

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With locking block
④ Female insulator



● **Components**

①	Female insulator
②	Locking block (Appended)
③	Spring washer (Appended)
④	Small-sized Phillips head screw (Appended)

● **Dimensions**

Part No.	A	B	C	D	E
MRP-16RF01+	32.4	30.2	25.2	—	19.7
MRP-20RF01+	35.0	32.8	27.8	21.3	22.3
MRP-25RF01+	40.2	38	33		27.5
MRP-34RF01+	48.0	45.8	40.8	—	35.3
MRP-50RF01+	63.6	61.4	56.4		50.9

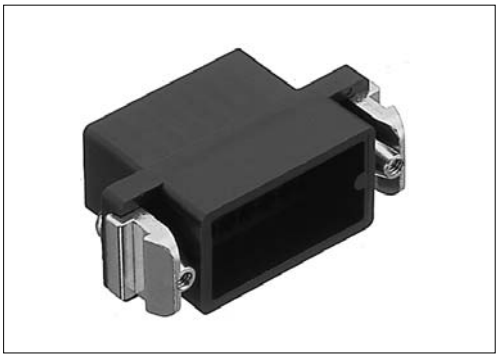
Applicable contacts: MRP-F1( )( )

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Crimping type male insulator with locking block for panel MRP-( )RM01+

RoHS

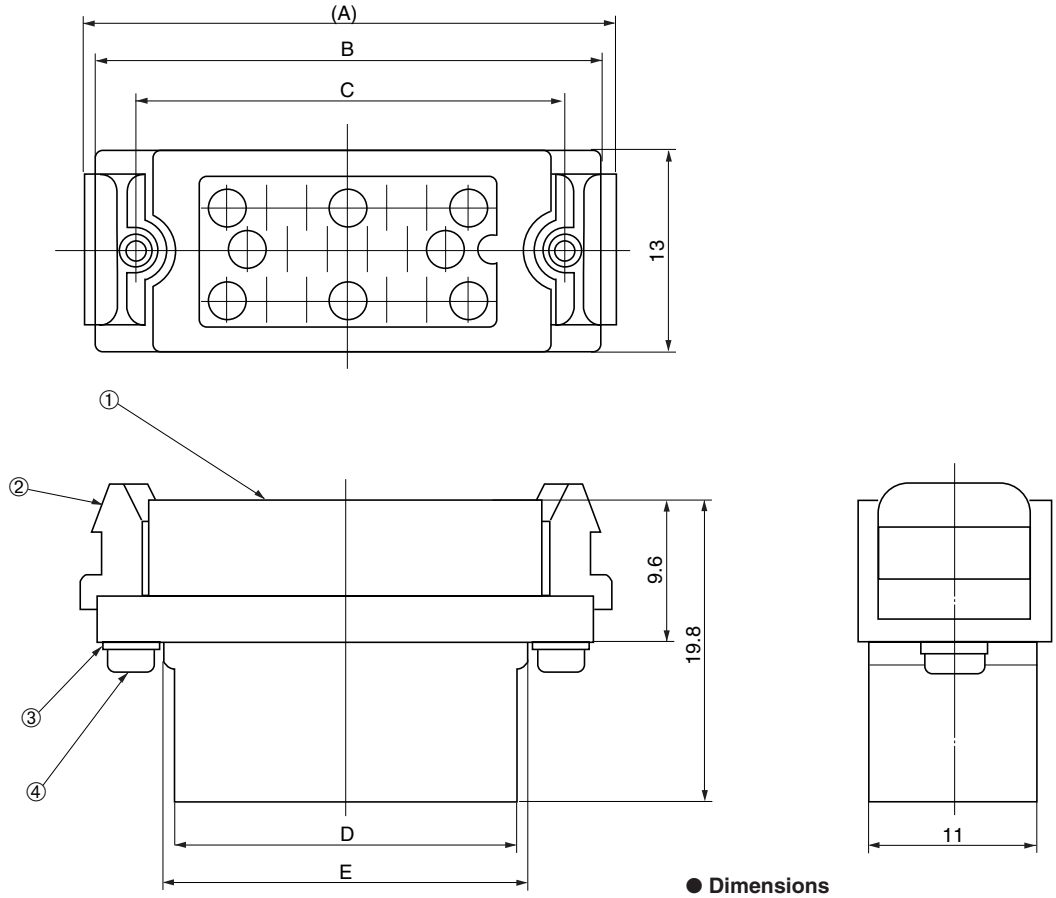
Rectangular connector
For panel
Crimping
With locking block



● **Configuration of product Part No.**

MRP- ( ) R M01+
① ② ③ ④

① Series name
② No. of contacts: 16, 20, 25, 34 or 50
③ With locking block
④ Male insulator



● **Components**

①	Male insulator
②	Locking block (Appended)
③	Spring washer (Appended)
④	Small-sized Phillips head screw (Appended)

● **Dimensions**

Part No.	A	B	C	D	E
MRP-16RM01+	32.4	30.2	25.2	–	19.7
MRP-20RM01+	35.0	32.8	27.8	21.3	22.3
MRP-25RM01+	40.2	38	33	–	27.5
MRP-34RM01+	48.0	45.8	40.8		35.3
MRP-50RM01+	63.6	61.4	56.4		50.9

Applicable contacts: MRP-M1( )( )

Crimping type female contact
MRP-F1( )( )

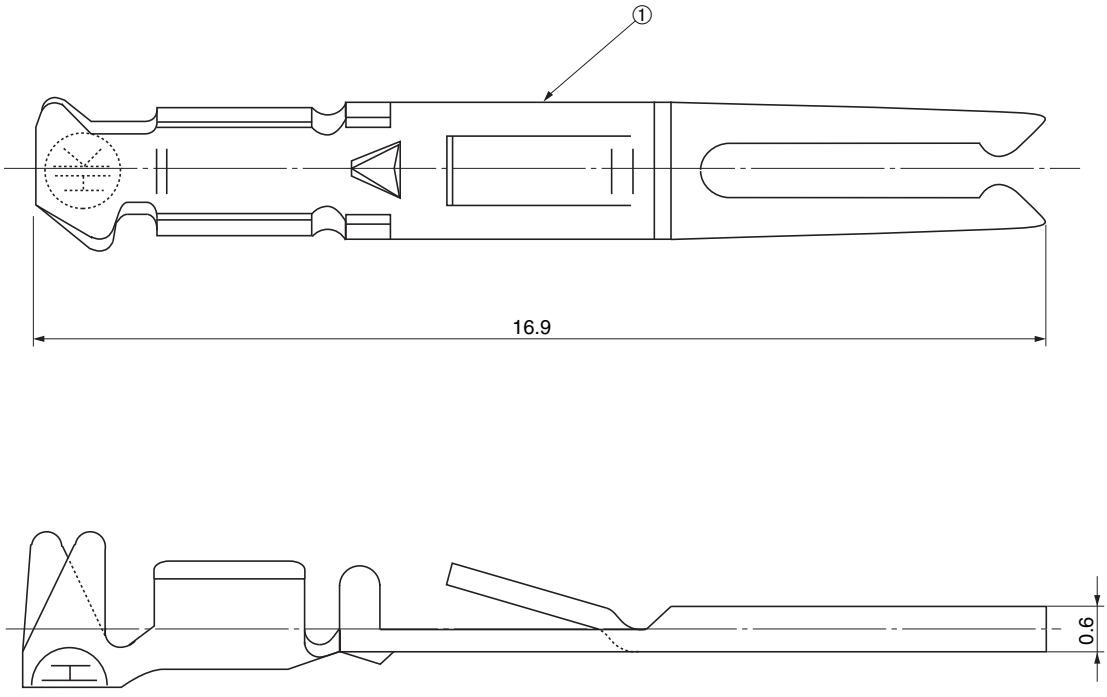
RoHS



● **Configuration of product Part No.**

MRP- F1 ( ) ( )
① ② ③ ④

① Series name
② Female contact
③ Type of contact
0: Strip form terminal (1 reel: 10,000 contacts)
1: Loose piece terminal
④ Contact plating
2: Silver plate
3: Gold plate



● **Components**

①	Contact

Applicable insulators: MRP-( )F01

For use with cable: AWG#24~28 (Outside diameter: ø1.2-ø1.5mm)

Automatic crimping machine: Press body: HTK-211, Applicator: KP-202

Manual crimping tool: KP-308 (Refer to page Tool-7)

Crimping type male contact
MRP-M1( )( )

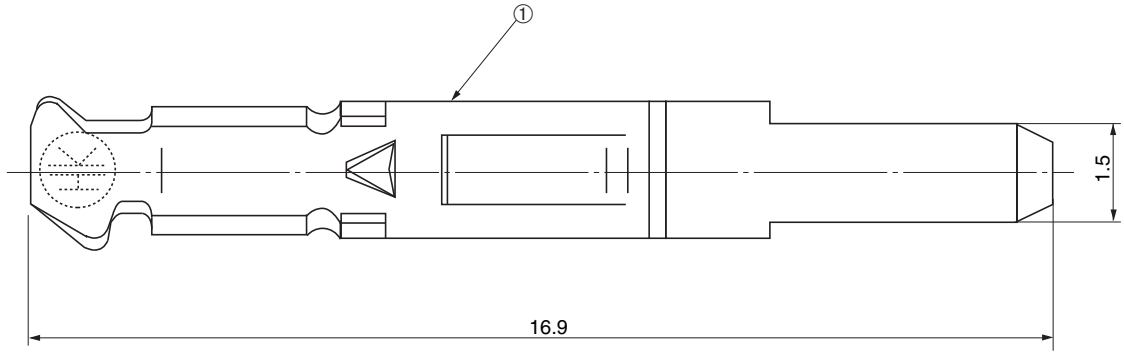
RoHS

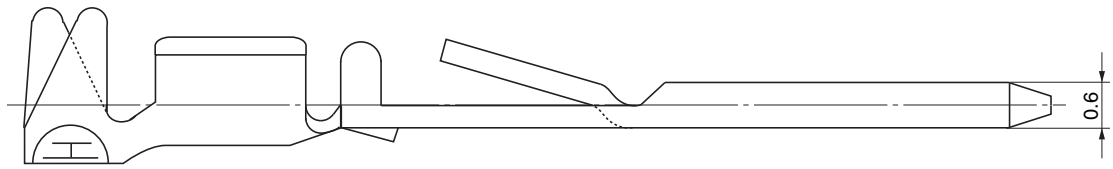


● **Configuration of product Part No.**

MRP- M1 ( ) ( )
① ② ③ ④

① Series name
② Male contacts
③ Type of contact
0: Strip form terminal (1 reel: 10,000 contacts)
1: Loose piece terminal
④ Contact plating
2: Silver plate
3: Gold plate





● **Components**

①	Contact

Applicable insulators: MRP-( )M01

For use with cable: AWG#24~28 (Outside diameter: ø1.2-ø1.5mm)

Automatic crimping machine: Press body: HTK-211, Applicator: KP-202

Manual crimping tool: KP-308 (Refer to page Tool-7)

Crimping type contact extraction tool
MRP-MF+

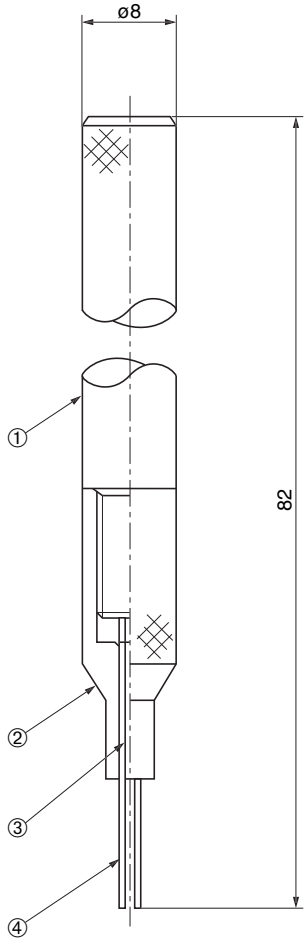
RoHS



● **Configuration of product Part No.**

MRP- MF+
① ②

① Series name
② Contact extraction tool



● **Components**

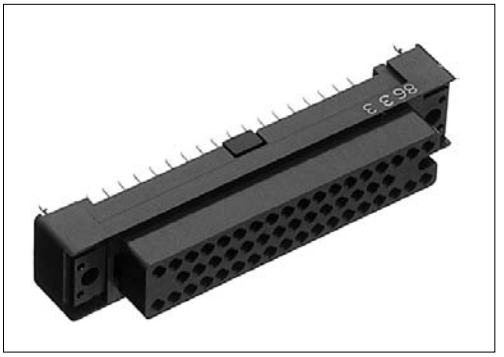
①	Body B
②	Body A
③	Spacer
④	Pushing pin

Applicable connectors: MRP series crimping type connectors

Straight through hole type female connector for PCB
MRH-( )FD+

RoHS

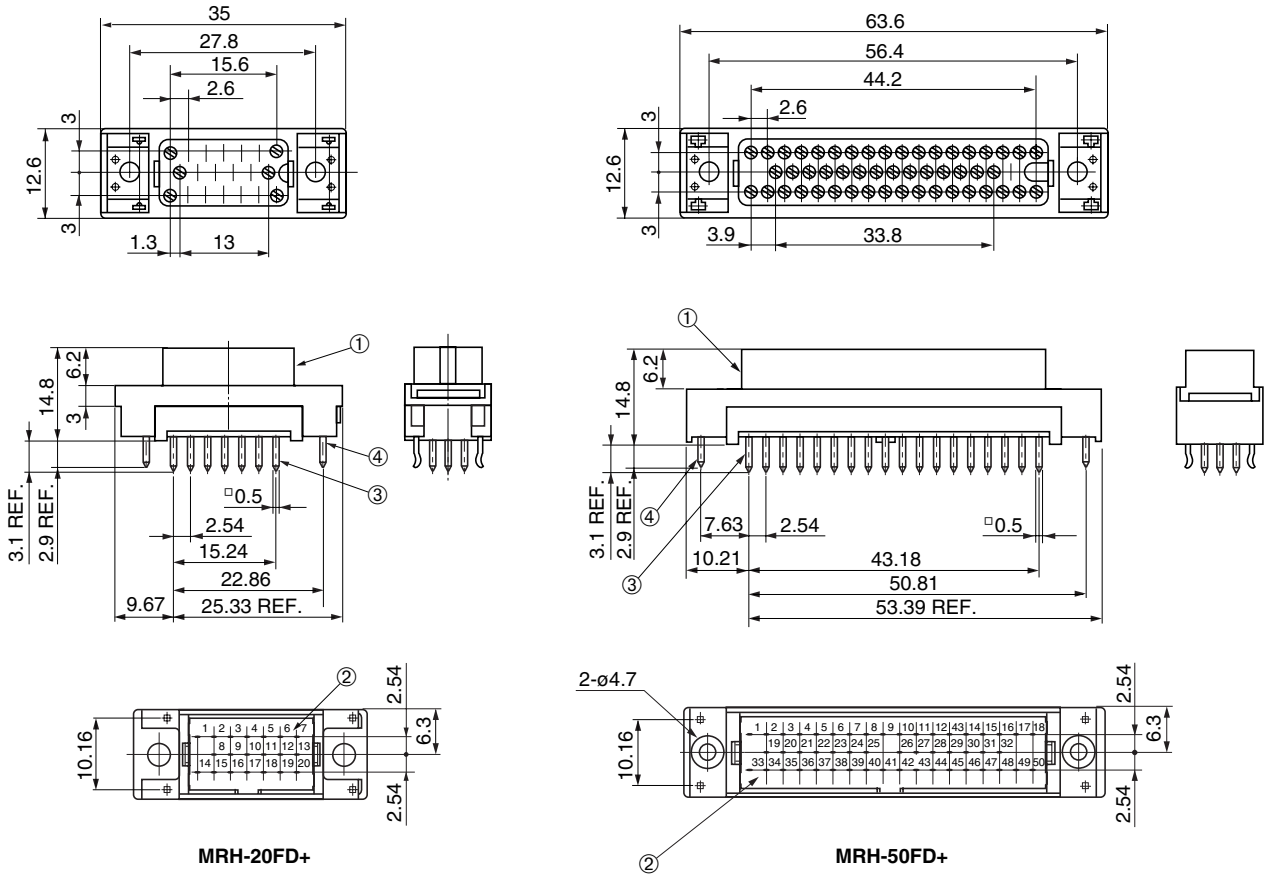
Rectangular connector
For PCB
Straight Through hole



● **Configuration of product Part No.**

MRH- ( ) FD+
① ② ③

① Series name
② No. of contacts: 20 or 50
③ Type of contact: Straight through hole, female



MRH-20FD+ **MRH-50FD+**

● **Components**

①	Insulator A
②	Insulator B
③	Contact
④	Locking piece

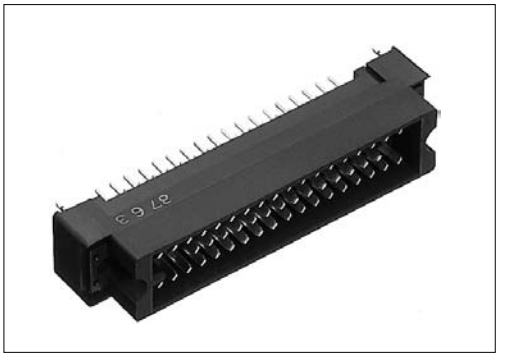
Note: These connectors are compatible with the MR series of connectors.

Mating connectors: MRH-( )MD+, MRH-( )MA+

Rectangular connector
For PCB
Straight Through hole

Straight through hole type male connector for PCB
MRH-( )MD+

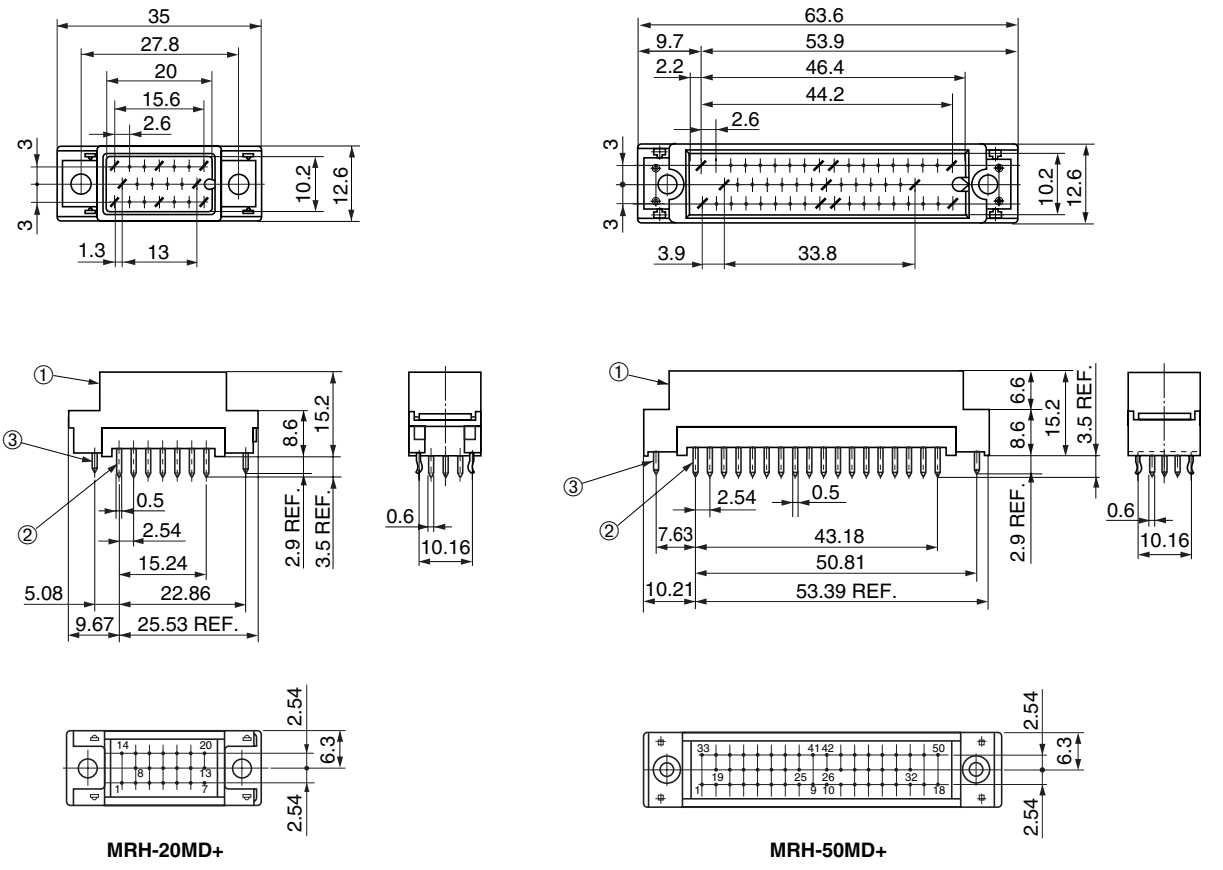
RoHS



● **Configuration of product Part No.**

MRH- ( ) MD+
① ② ③

① Series name
② No. of contacts: 20 or 50
③ Type of contact: Straight through hole, male



MRH-20MD+ **MRH-50MD+**

● **Components**

①	Insulator
②	Contact
③	Locking piece

Note: These connectors are compatible with the MR series of connectors.

Mating connectors: MRH-( )FD+, MRH-( )FA+

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Right-angle through hole type female connector for PCB
MRH-( )FA+

Rectangular connector
For PCB
Right-angle Through hole

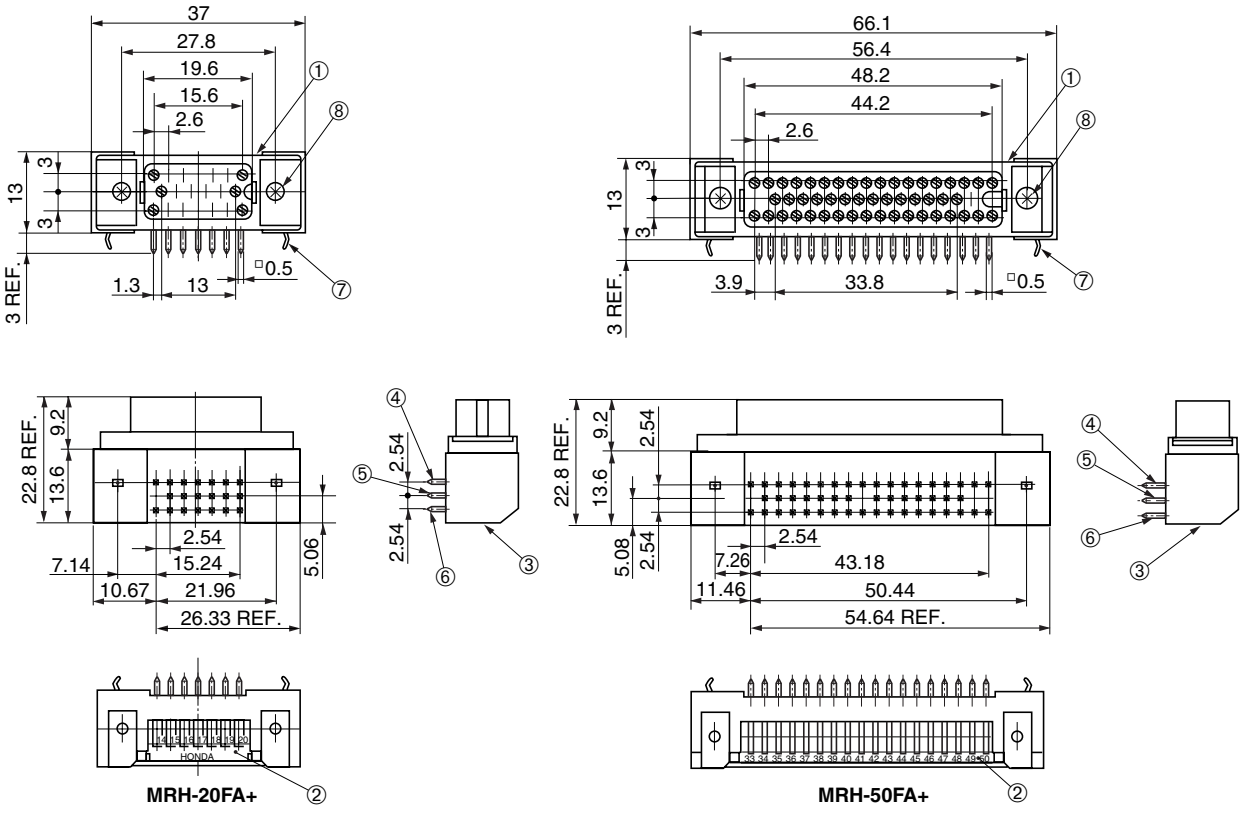
RoHS



● **Configuration of product Part No.**

MRH- ( ) FA+
① ② ③

① Series name
② No. of contacts: 20 or 50
③ Type of contact: Right-angle through hole, female



● **Components**

①	Insulator A
②	Insulator B
③	Bracket
④	Contact (short)
⑤	Contact (middle)
⑥	Contact (long)
⑦	Locking piece
⑧	Tapping screw

Note: These connectors are compatible with the MR series of connectors.

Mating connectors: MRH-( )MD+, MRH-( )MA+

HONDA TSUSHIN KOGYO CO., LTD.

Right-angle through hole type male connector for PCB
MRH-( )MA+

RoHS

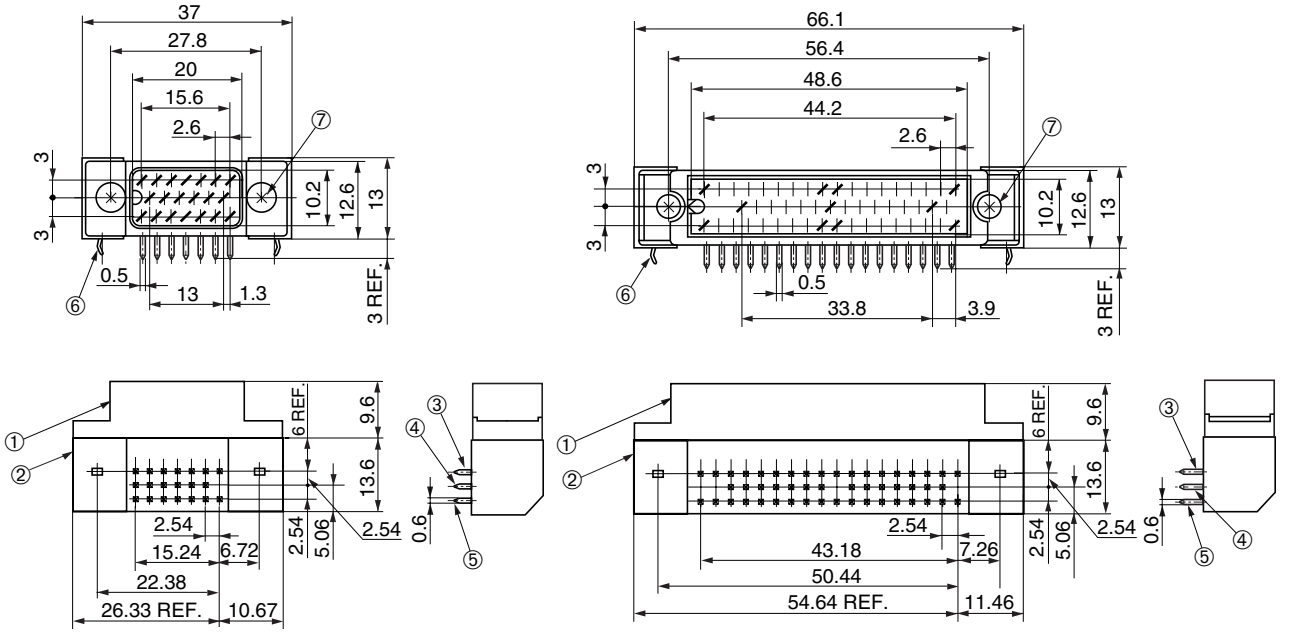
Rectangular connector
For PCB
Right-angle Through hole

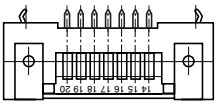


● **Configuration of product Part No.**

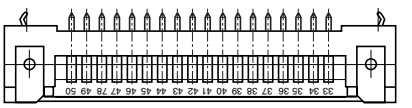
MRH- ( ) MA+
① ② ③

① Series name
② No. of contacts: 20 or 50
③ Type of contact: Right-angle through hole, male





MRH-20MA+



MRH-50MA+

● **Components**

①	Insulator
②	Bracket
③	Contact (short)
④	Contact (middle)
⑤	Contact (long)
⑥	Locking piece
⑦	Tapping screw

Note: These connectors are compatible with the MR series of connectors.

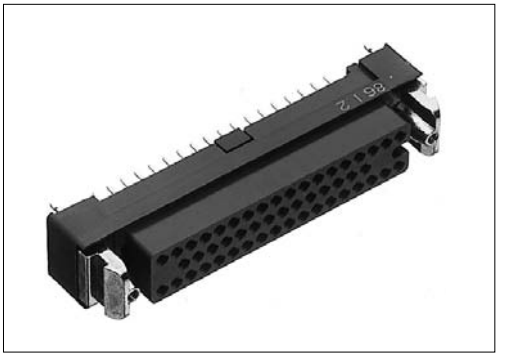
Mating connectors with case: MRH-( )FD+, MRH-( )FA+

Through hole | **SMT** | **Press-in** | **IDC** | **Soldering** | **Crimping** | **Wire wrapping** | **Others**

Rectangular connector
For PCB
Straight Through hole
With locking block

Straight through hole type female connector with locking block for PCB
MRH-( )RFD+

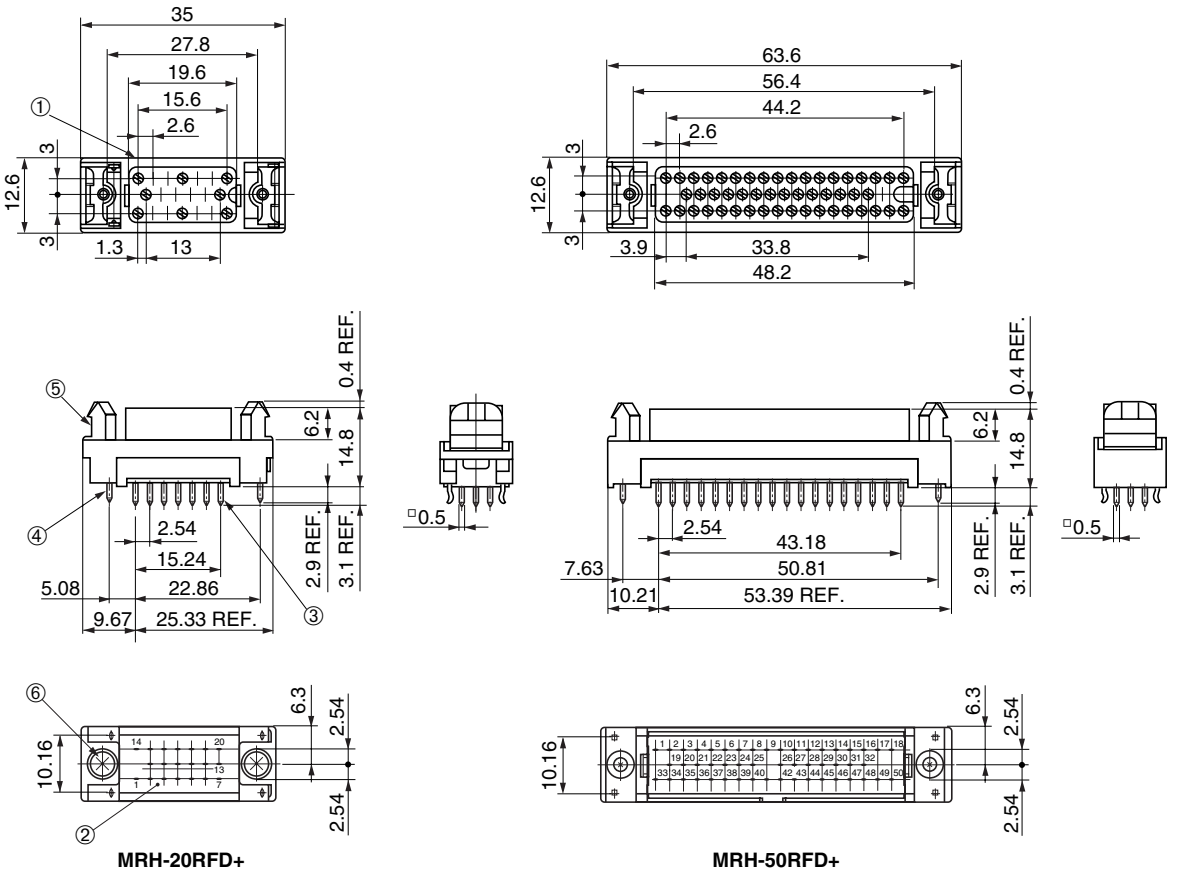
RoHS



● **Configuration of product Part No.**

MRH- ( ) R FD+
① ② ③ ④

① Series name
② No. of contacts: 20 or 50
③ Locking block
④ Type of contact: Straight through hole, female



● **Components**

①	Insulator A
②	Insulator B
③	Contact
④	Locking piece
⑤	Locking block
⑥	Small-sized Phillips head screw

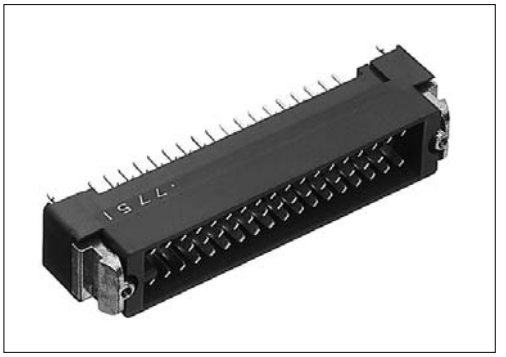
Note: These connectors are compatible with the MR series of connectors.

Mating connectors with case: MR-( )LM+, MR-( )LMW+, MRP-( )M01-( )L+

Rectangular connector
For PCB
Straight Through hole
With locking block

Straight through hole type male connector with locking block for PCB MRH-( )RMD+

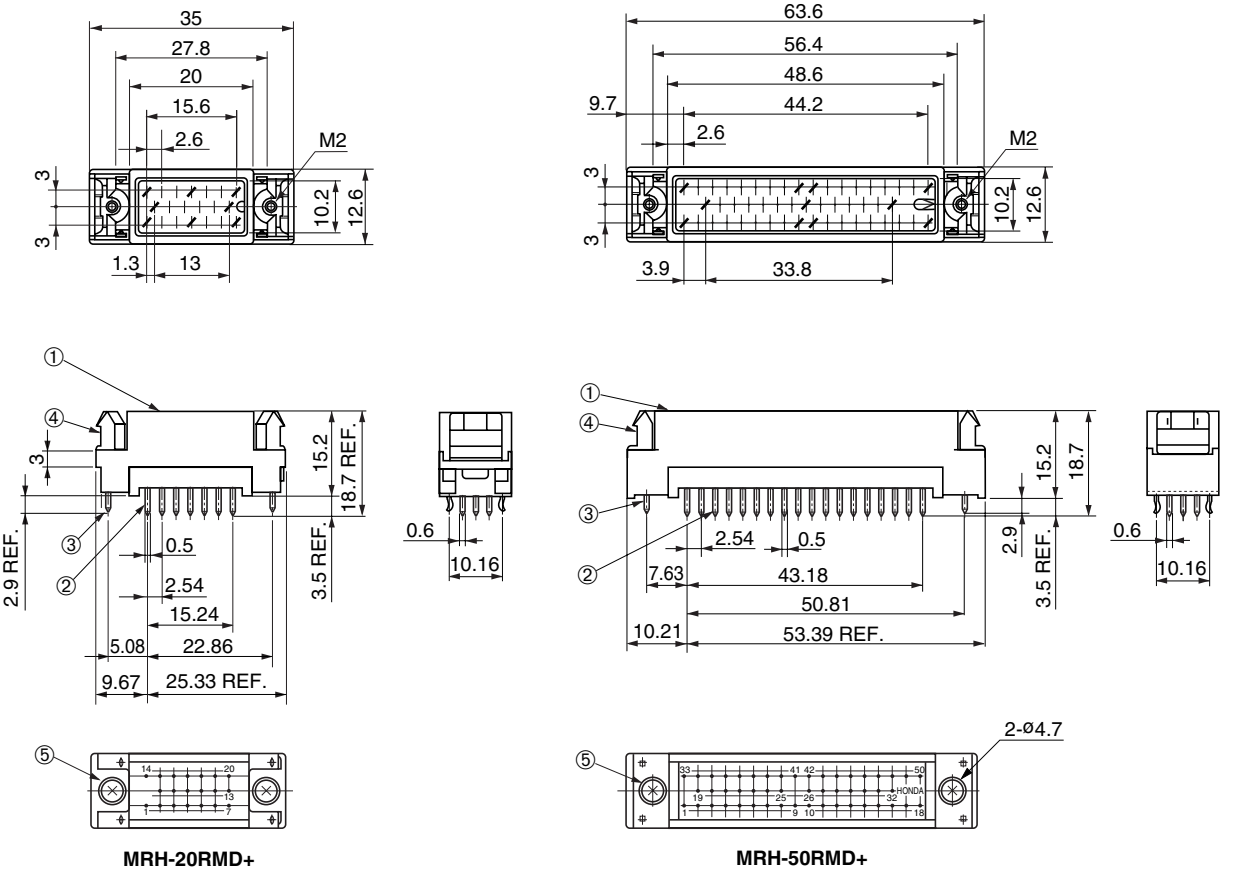
RoHS



● **Configuration of product Part No.**

MRH- ( ) R MD+
① ② ③ ④

① Series name
② No. of contacts: 20 or 50
③ Locking block
④ Type of contact: Straight through hole, male



MRH-20RMD+

MRH-50RMD+

● **Components**

①	Insulator
②	Contact
③	Locking piece
④	Locking block
⑤	Small-sized Phillips head screw

Note: These connectors are compatible with the MR series of connectors.

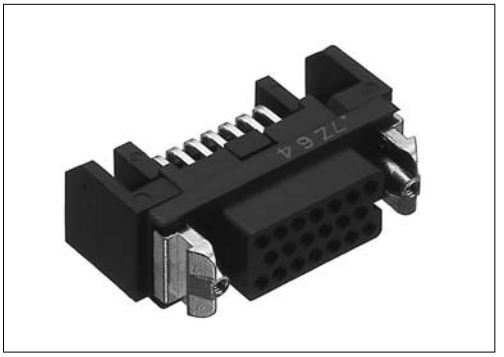
Mating connectors with case: MR-( )LF+, MR-( )LFW+, MRP-( )F01-( )L+

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Right-angle through hole type female connector with locking block for PCB
MRH-( )RFA+

RoHS

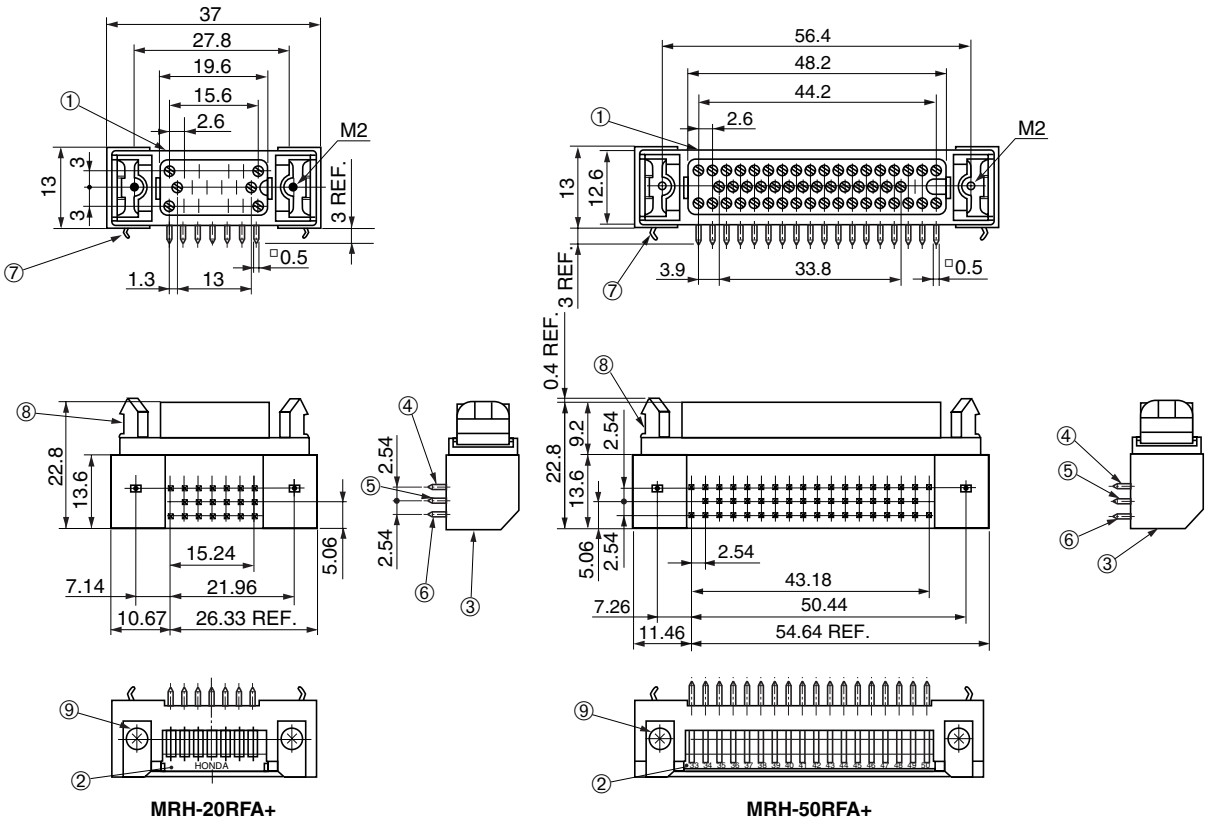
Rectangular connector
For PCB
Right-angle Through hole
With locking block



● **Configuration of product Part No.**

MRH- ( ) R FA+
① ② ③ ④

① Series name
② No. of contacts: 20 or 50
③ Locking block
④ Type of contact: Right-angle through hole, female



MRH-20RFA+ **MRH-50RFA+**

● **Components**

①	Insulator A
②	Insulator B
③	Bracket
④	Contact (short)
⑤	Contact (middle)
⑥	Contact (long)
⑦	Locking piece
⑧	Locking block
⑨	Small-sized Phillips head screw

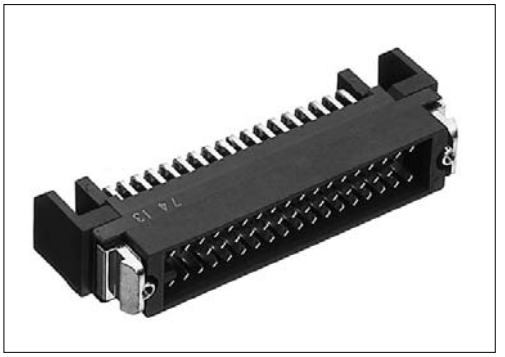
Note: These connectors are compatible with the MR series of connectors.

Mating connectors with case: MR-( )LM+, MR-( )LMW+, MRP-( )M01-( )L+

Rectangular connector
For PCB
Right-angle Through hole
With locking block

Right-angle through hole type male connector with locking block for PCB
MRH-( )RMA+

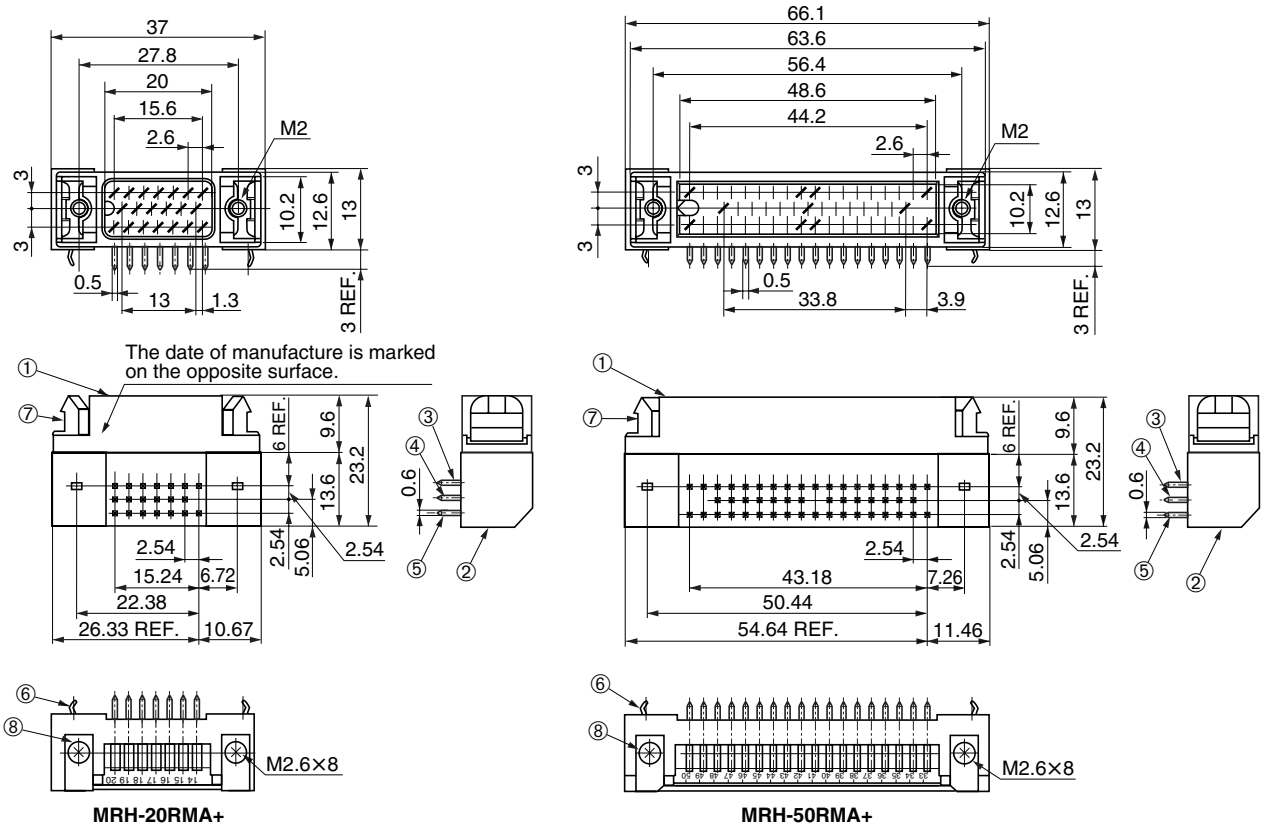
RoHS



● **Configuration of product Part No.**

MRH- ( ) R MA+
① ② ③ ④

① Series name
② No. of contacts: 20 or 50
③ Locking block
④ Type of contact: Right-angle through hole, male



MRH-20RMA+ **MRH-50RMA+**

● **Components**

①	Insulator
②	Bracket
③	Contact (short)
④	Contact (middle)
⑤	Contact (long)
⑥	Locking piece
⑦	Locking block
⑧	Small-sized Phillips head screw

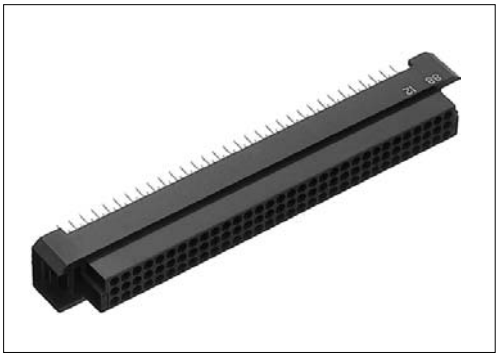
Note: These connectors are compatible with the MR series of connectors.

Mating connectors with case: MR-( )LF+, MR-( )LFW+, MRP-( )F01-( )L+

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Straight through hole type female connector for PCB
MRF-96FD( )+

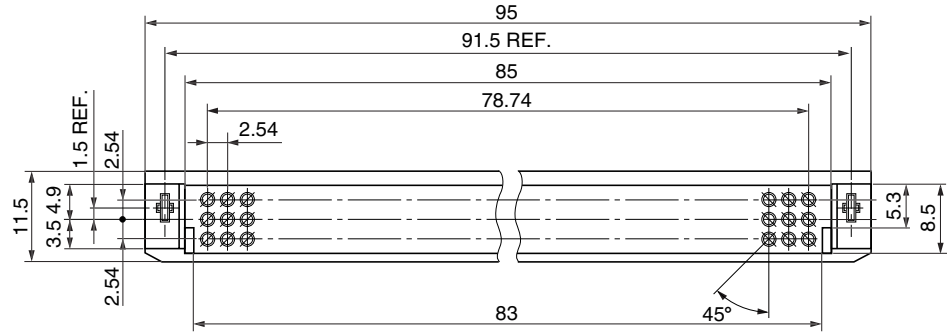
RoHS

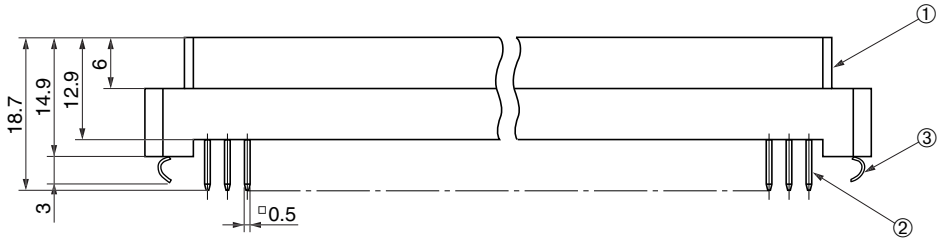


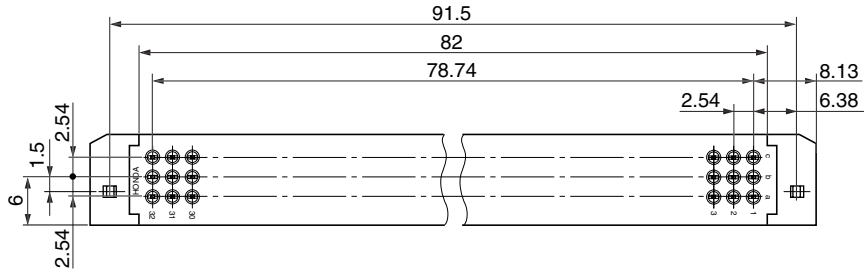
● **Configuration of product Part No.**

MRF- 96 FD ( )+
① ② ③ ④

① Series name
② No. of contacts: 96
③ Type of contact: Straight through hole, female
④ Contact plating
None: Silver plate
G : Gold plate







● **Components**

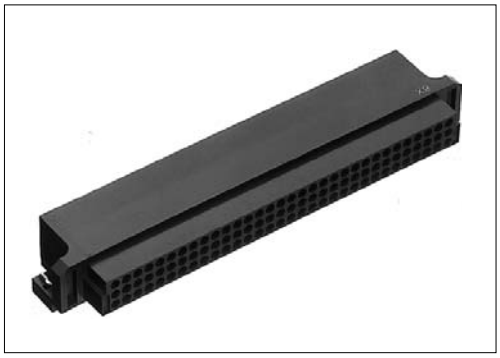
①	Insulator
②	Contact
③	Locking piece

Mating connectors: MRF-96MD( )+, MRF-96ML( )+

Rectangular connector
For PCB
Right-angle through hole

Right-angle through hole type female connector for PCB MRF-96FL( )+

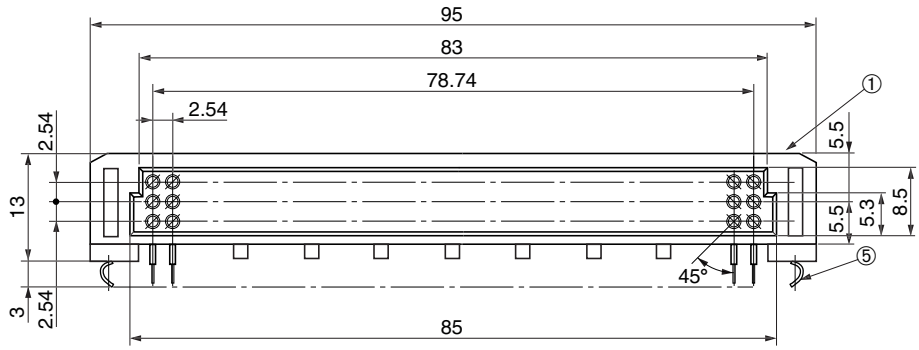
RoHS

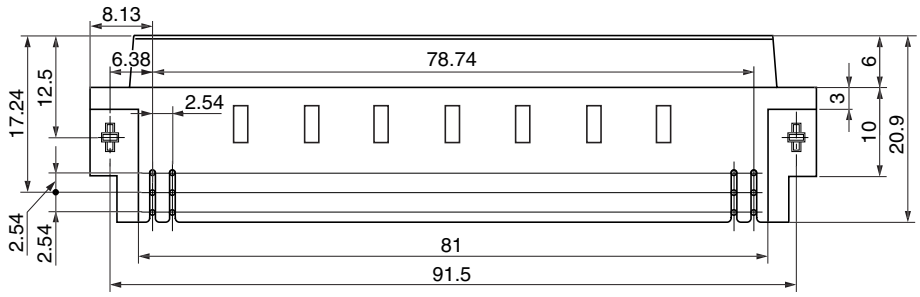


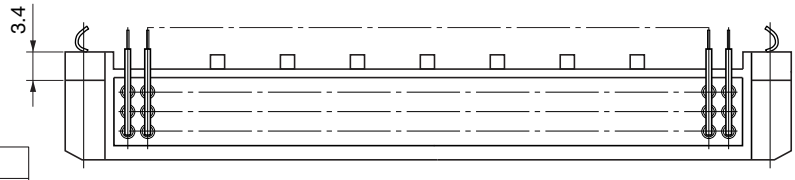
● **Configuration of product Part No.**

MRF- 96 FL ( )+
① ② ③ ④

① Series name
② No. of contacts: 96
③ Type of contact: Right-angle through hole, female
④ Contact plating
None: Silver plate
G : Gold plate







● **Components**

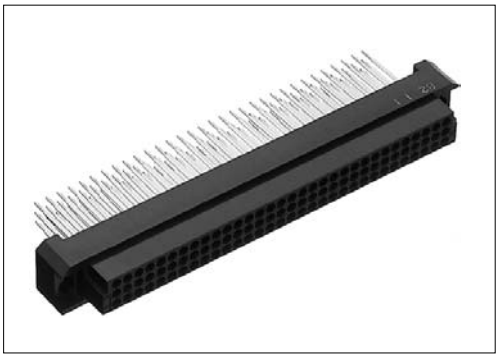
①	Insulator
②	Contact (short)
③	Contact (middle)
④	Contact (longer)
⑤	Locking piece

Mating connectors: MRF-96MD( )+, MRF-96ML( )+

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Wire wrapping type female connector for PCB
MRF-96FDW( )

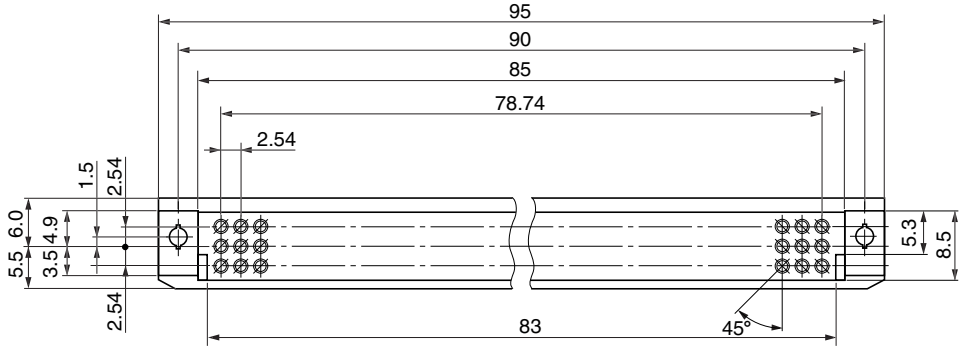
RoHS

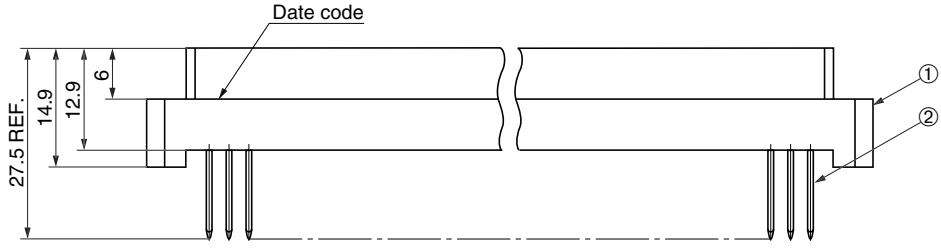


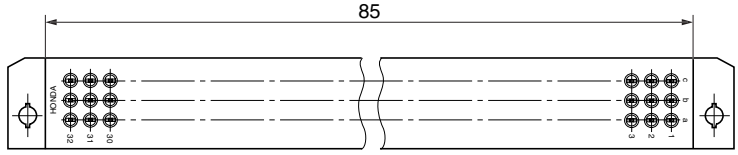
● **Configuration of product Part No.**

MRF- 96 FDW ( )
① ② ③ ④

① Series name
② No. of contacts: 96
③ Type of contact: Wire wrapping, female
④ Contact plating
None: Silver plate
G+ : Gold plate







● **Components**

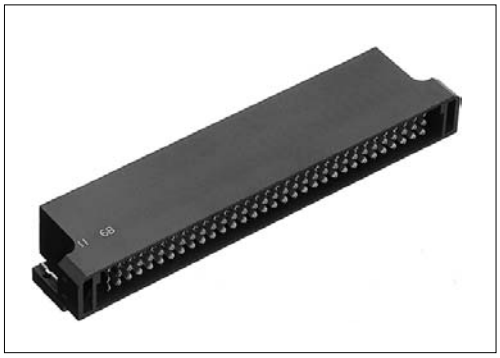
①	Insulator
②	Contact

Mating connectors: MRF-96MD( )+, MRF-96ML( )+

Right-angle through hole type male connector PCB MRF-96ML( )+

Rectangular connector
For PCB
Right-angle Through hole

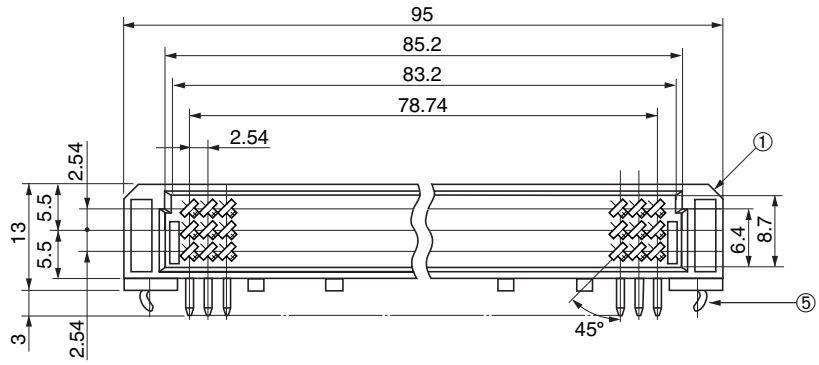
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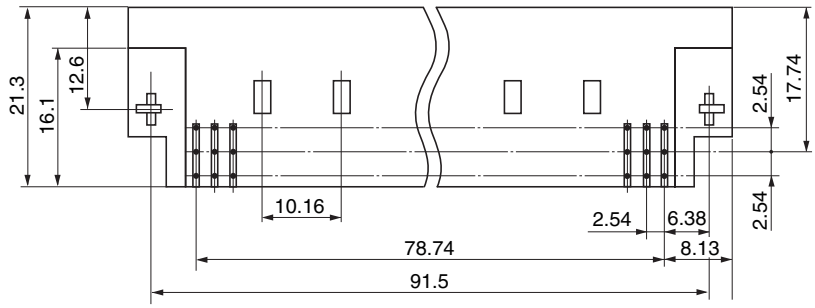


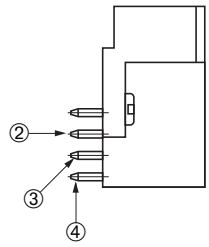
● **Configuration of product Part No.**

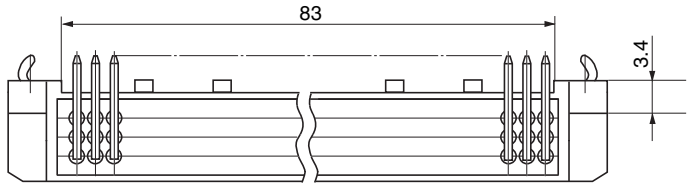
MRF- 96 ML ( )+
① ② ③ ④

① Series name
② No. of contacts: 96
③ Type of contact: Right-angle through hole, male
④ Contact plating
None: Silver plate
G : Gold plate









● **Components**

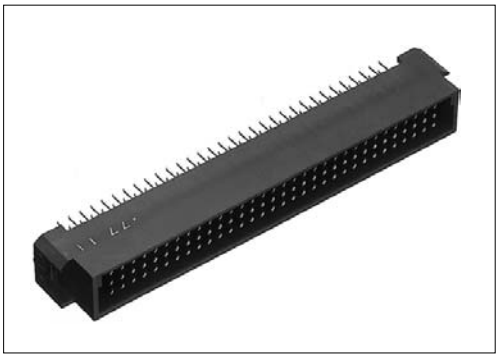
①	Insulator
②	Contact (short)
③	Contact (middle)
④	Contact (long)
⑤	Locking piece

Mating connectors: MRF-96FD( )+, MRF-96FL( )+, MRF-96FDW( )

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Straight through hole type male connector for PCB
MRF-96MD( )+

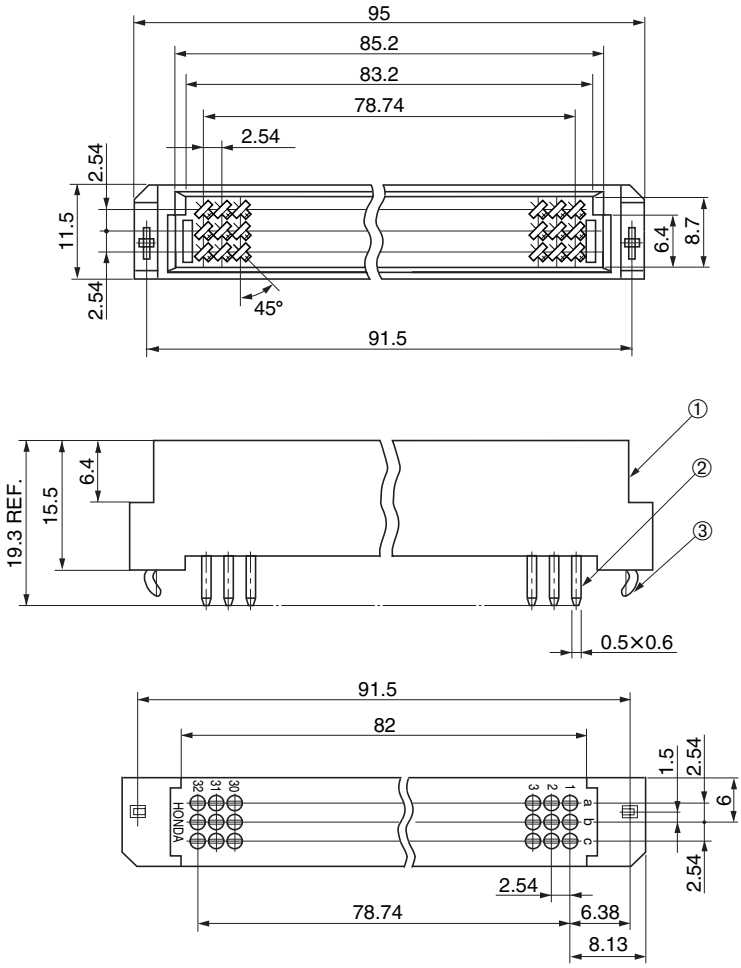
RoHS



● **Configuration of product Part No.**

MRF- 96 MD ( )+
① ② ③ ④

① Series name
② No. of contacts: 96
③ Type of contact: Straight through hole, male
④ Contact plating
None: Silver plate
G : Gold plate



● **Components**

①	Insulator
②	Contact
③	Locking piece

Mating connectors: MRF-96FD( )+, MRF-96FL( )+, MRF-96FDW( )

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