

HM SERIES

Features

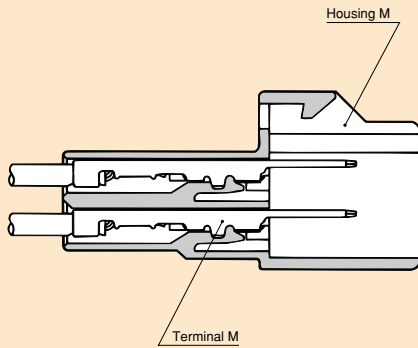
The HM connector series has a 4 mm pitch between terminal poles.

This series consists of a 090 type (090 and 250 types for the hybrid model) classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

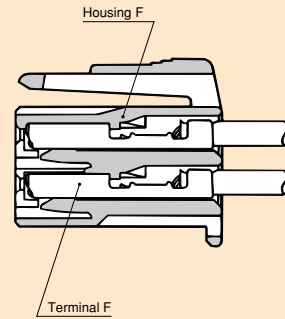
- A joint model allows you to integrate multiple connectors, regardless of the number of ways.
- A splice connector is also available.

Structure

Connector M

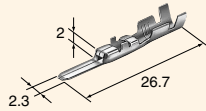


Connector F



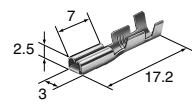
Terminal (UNIT: mm)

Cable size (mm ²)	0.2~0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.3



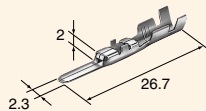
M(8230-4272)

Cable size (mm ²)	0.2~0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.25



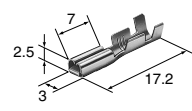
F(8240-4412)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.3



M(8230-4282)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.25

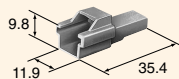


F(8240-4422)

Housing (UNIT: mm)

Material / 66Nylon
Color / Natural

Ref: Terminal part No. I-02



M(6090-1031)

Ref: Terminal part No. I-02



F(6090-1001)

2way

2way

Ref: Terminal part No. I-02

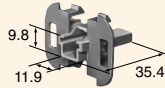
Note With clamp for 7mm dia.



Plate thickness range for clamp : **M(6090-1126)**
t = 0.7~2.2

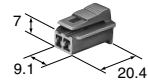
Ref: Terminal part No. I-02

Note Flanged



M(6181-0001)

Ref: Terminal part No. I-02

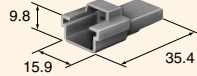


F(6090-1001)

I-03

3way

Ref: Terminal part No. I-02



M(6090-1131)

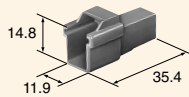
Ref: Terminal part No. I-02



F(6090-1136)

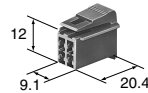
4way

Ref: Terminal part No. I-02



M(6090-1041)

Ref: Terminal part No. I-02



F(6090-1011)

Ref: Terminal part No. I-02

Note With clamp for 7mm dia.

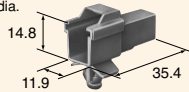
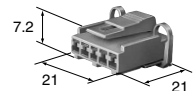


Plate thickness range for clamp : **M(6090-1123)**
t = 0.7~2.2

5way

(Secondary Locking Type)

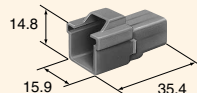
Ref: Terminal part No. I-02



F(6090-1256)

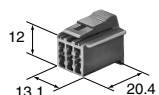
6way

Ref: Terminal part No. I-02



M(6090-1149)

Ref: Terminal part No. I-02



F(6090-1218)

6way

Ref: Terminal part No. I-02

Note With clamp for 7mm dia.

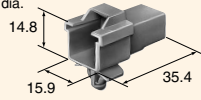
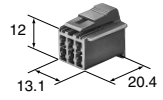


Plate thickness range for clamp :
t=0.7~2.2

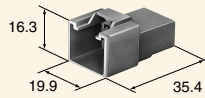
M(6090-1124)

Ref: Terminal part No. I-02



F(6090-1218)

Ref: Terminal part No. I-02



M(6090-1051)

Ref: Terminal part No. I-02

Note With clamp for 7mm dia.

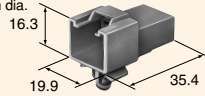
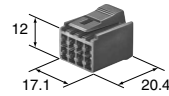


Plate thickness range for clamp :
t=0.7~2.2

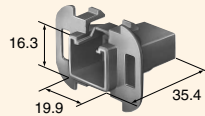
M(6090-1125)



F(6090-1021)

Ref: Terminal part No. I-02

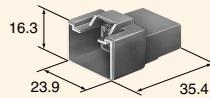
Note Flanged



M(6090-1122)

8way

Ref: Terminal part No. I-02



M(6090-1056)

Ref: Terminal part No. I-02

Note With clamp for 7mm dia.

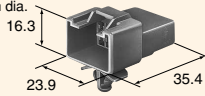
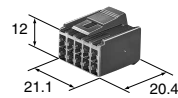


Plate thickness range for clamp :
t=0.7~2.2

M(6090-1127)

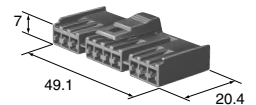
Ref: Terminal part No. I-02



F(6090-1220)

10way

Ref: Terminal part No. I-02

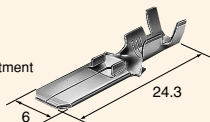


F(6090-1254)

Terminal (UNIT: mm)

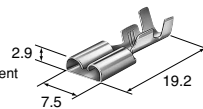
●Ref : 090 Terminal List (Page I-02)

Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	4000
Thickness (mm)	0.4



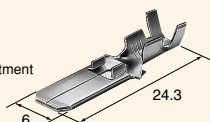
M(8230-4050)

Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	5000
Thickness (mm)	0.32



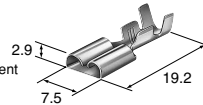
F(8240-4220)

Cable size (mm ²)	0.5~2.0
Cable overall diameter (mm)	1.6~3.4
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	4000
Thickness (mm)	0.4



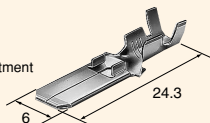
M(8230-4040)

Cable size (mm ²)	0.5~2.0
Cable overall diameter (mm)	1.6~3.4
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	5000
Thickness (mm)	0.32



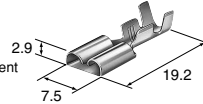
F(8240-4140)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.9~4.1
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	3500
Thickness (mm)	0.4



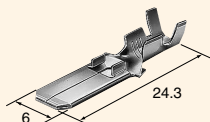
M(8230-4060)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.9~4.1
Material	Brass
Surface treatment	Anti-Corrosion treatment
Reel (piece)	5000
Thickness (mm)	0.32



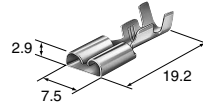
F(1500-0081)

Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.4



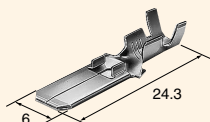
M(8230-4052)

Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.32



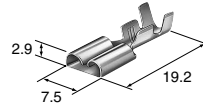
F(8240-4202)

Cable size (mm ²)	0.5~2.0
Cable overall diameter (mm)	1.6~3.4
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.4



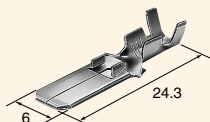
M(8230-4042)

Cable size (mm ²)	0.5~2.0
Cable overall diameter (mm)	1.6~3.4
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.32



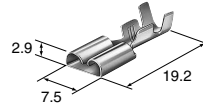
F(8240-4182)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.9~4.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	3500
Thickness (mm)	0.4



M(8230-4062)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.9~4.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.32



F(8240-4538)

HM SERIES

090, 250(2.3 mm, 6.6 mm)/HYBRID

Housing (UNIT: mm)

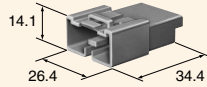
Material/66Nylon

Color/Natural

No. of way : () corresponds to 090, 250, in order from left to right.

6way
(4+2)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1250)

Ref: Terminal part No. [090] I-02
[250] I-05

Note

With clamp for 7mm dia.

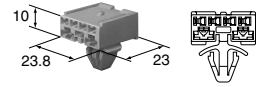
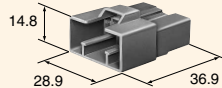


Plate thickness range for clamp: t=0.7~1.2mm
The corners are rounded. 10X8mm

F(6090-1251)

8way
(6+2)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1231)

Ref: Terminal part No. [090] I-02
[250] I-05



F(6090-1224)

10way
(6+4)

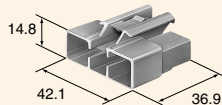
Ref: Terminal part No. [090] I-02
[250] I-05



F(6090-1230)

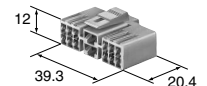
14way
(12+2)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1119)

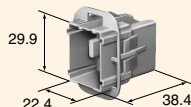
Ref: Terminal part No. [090] I-02
[250] I-05



F(6090-1219)

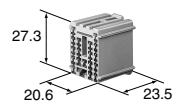
19way
(18+1)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1182)

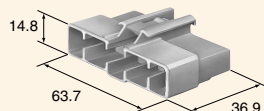
Ref: Terminal part No. [090] I-02
[250] I-05



F(6090-1183)

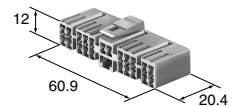
23way
(22+1)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1120)

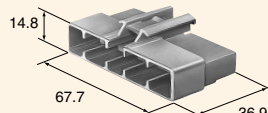
Ref: Terminal part No. [090] I-02
[250] I-05



F(6090-1117)

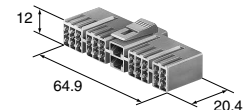
24way
(22+2)

Ref: Terminal part No. [090] I-02
[250] I-05



M(6090-1121)

Ref: Terminal part No. [090] I-02
[250] I-05

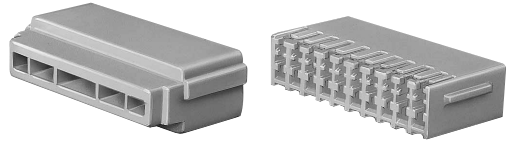


F(6090-1118)

HM SERIES

090(2.3 mm) / SPLICE

The rationalization and reliability are appreciably improved, by concentrating the splices in the wiring harness at one position.



Splice connector

Material / 66Nylon

Type 1	Color: Black	Ref: Terminal part No. I-02 Color: Black
	 M(6409-0071)	Connector F (Mate)NO. F(6400-0012)
Type 2	Color: Green	Ref: Terminal part No. I-02 Color: Green
	 M(6409-0072)	Connector F (Mate)NO. F(6400-0013)
Type 3	Color: Gray	Ref: Terminal part No. I-02 Color: Gray
	 M(6409-0255)	Connector F (Mate)NO. F(6400-0081)
Type 4	Color: Blue	Ref: Terminal part No. I-02 Color: Blue
	 M(6409-0073)	Connector F (Mate)NO. F(6400-0014)
Type 5	Color: Natural	Ref: Terminal part No. I-02 Color: Natural
	 M(6409-0076)	Connector F (Mate)NO. F(6400-0010)
Type 6	Color: Orange	Ref: Terminal part No. I-02 Color: Orange
	 M(6409-0075)	Connector F (Mate)NO. F(6400-0016)

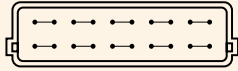
I-07

HM SERIES

090(2.3 mm) / SPLICE

Type 7

Color Red



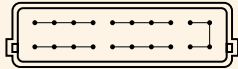
M(6409-0070)

Ref: Terminal part No. I-02
Color Red

Connector F (Mate)NO. F(6400-0011)

Type 8

Color Yellow



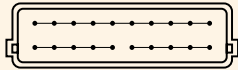
M(6409-0074)

Ref: Terminal part No. I-02
Color Yellow

Connector F (Mate)NO. F(6400-0015)

Type 9

Color Pink



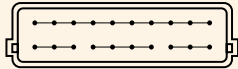
M(6440-0128)

Ref: Terminal part No. I-02
Color Pink

Connector F (Mate)NO. F(6440-0129)

Type 10

Color Brown



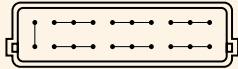
M(6409-0603)

Ref: Terminal part No. I-02
Color Brown

Connector F (Mate)NO. F(6400-0186)

Type 11

Color Wisteria Violet



M(6440-0135)

Ref: Terminal part No. I-02
Color Wisteria Violet

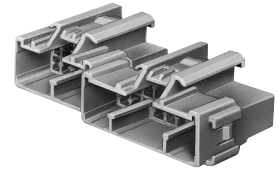
Connector F (Mate)NO. F(6440-0136)

HM SERIES

090(2.3 mm)/BLOCK

The connectors which have different number of ways as well as the same number of ways can be connected each other. It is also possible to connect with the block type ET connectors.

Clamping a single connector on a device, etc. where only a narrow clamping location is available makes it possible to clamp a multiple number of connector.

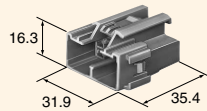


Housing (UNIT: mm)

Material / 66Nylon
Color / Natural

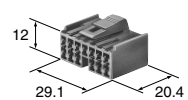
13way

Ref: Terminal part No. I-02



M(6090-1090)

Ref: Terminal part No. I-02

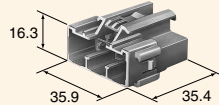


F(6090-1061)

I-09

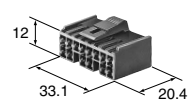
14way

Ref: Terminal part No. I-02



M(6090-1221)

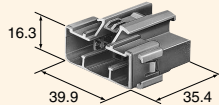
Ref: Terminal part No. I-02



F(6090-1064)

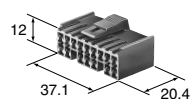
16way

Ref: Terminal part No. I-02



M(6090-1099)

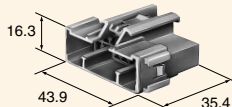
Ref: Terminal part No. I-02



F(6090-1071)

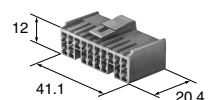
18way

Ref: Terminal part No. I-02



M(6090-1101)

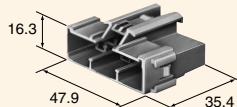
Ref: Terminal part No. I-02



F(6090-1073)

20way

Ref: Terminal part No. I-02



M(6090-1107)

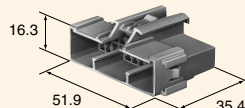
Ref: Terminal part No. I-02



F(6090-1081)

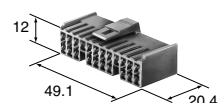
22way

Ref: Terminal part No. I-02



M(6090-1112)

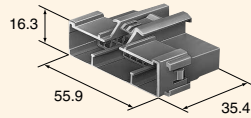
Ref: Terminal part No. I-02



F(6090-1086)

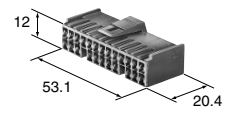
24way

Ref: Terminal part No. I-02



M(6090-1113)

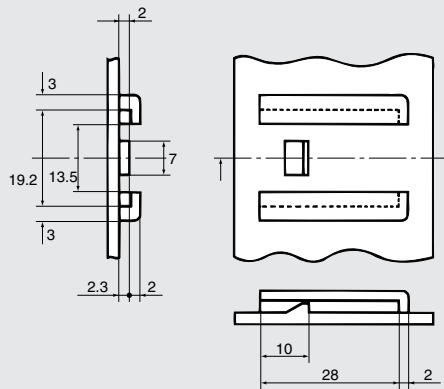
Ref: Terminal part No. I-02



F(6090-1087)

▶▶ Shape of Mating Support (UNIT: mm) ◀◀

090 Blocking type M housing can be mounted by providing the support as indicated above to the mating parts.



Note) The dimensions as shown here are reference dimensions and detail dimensions for mounting portion of the mating support are specified in the official drawing. Please contact our sales staff.

▶▶ Dimensions of Installation Panel (UNIT: mm) ◀◀

Housings mentioned above can be mounted by machining the panel as indicated in the figure.

Standard type
 2way M housing (6181-0001)
 8way M housing (6090-1122)
Hybrid type
 19way M housing (6090-1182)

