



HW SEALED SERIES

Features

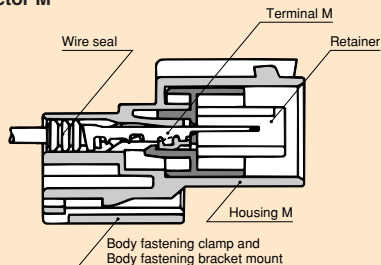
The HW sealed connector series is a new, improved version of the conventional HM sealed series, with a mechanism that detects when terminals are not inserted completely.

This series consists of a 090 type classified according to terminal size, supporting use in a variety of control circuits and low power circuits.

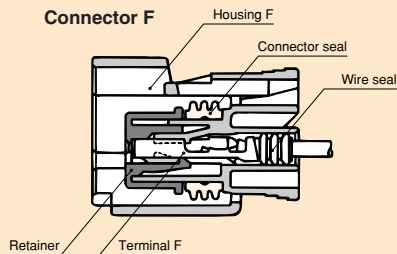
- The connector mechanism only allows the retainer to be set when the terminal is completely inserted.
- These connectors can be directly secured to a bracket on the car body.
- 1-6 way connectors adopt an inertia locking system to prevent semi-engagement.
- 8-14 way connectors is only possible when the locking mechanism ensures the connectors are completely engaged, preventing semi-engagement.

Structure

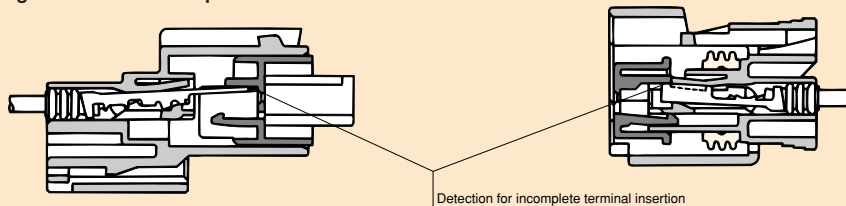
Connector M



Connector F

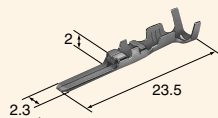


Detecting structure for incomplete terminal insertion



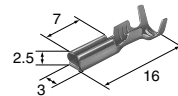
Terminal (UNIT: mm)

Cable size (mm ²)	0.3~1.25
Cable overall diameter (mm)	1.2~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.3 (Tab thickness : 0.64)



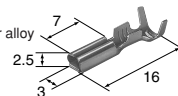
M(1500-0105)

Cable size (mm ²)	0.3~1.25
Cable overall diameter (mm)	1.2~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.25



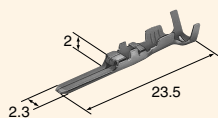
F(1500-0106)

Cable size (mm ²)	0.3~1.25
Cable overall diameter (mm)	1.2~2.9
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	5000
Thickness (mm)	0.25



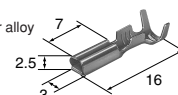
F(1500-0110)

Cable size (mm ²)	0.3~1.25
Cable overall diameter (mm)	1.2~2.9
Material	Brass
Surface treatment	Gold-plated
Reel (piece)	5000
Thickness (mm)	0.3 (Tab thickness : 0.64)



M(1500-0134)

Cable size (mm ²)	0.3~1.25
Cable overall diameter (mm)	1.2~2.9
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated
Reel (piece)	5000
Thickness (mm)	0.25



F(1500-0133)

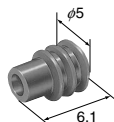
HW SEALED SERIES

090(2.3 mm) / STANDARD

Wire seals (UNIT: mm)

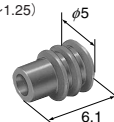
●The wire seals are common to M and F terminal.

Cable size (mm ²)	(AVSS/0.3~0.5) (AVSSX/0.5)
Cable overall diameter (mm)	1.2~1.7
Material	Silicone
Color	Gray



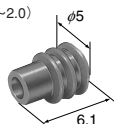
SS Type (7165-0385)

Cable size (mm ²)	(AV/0.5) (AVX/0.5~0.75) (AVS/0.3~0.85) (AVSS/0.85~1.25) (AVSSX/0.75~1.25)
Cable overall diameter (mm)	1.7~2.4
Material	N.B.R.
Color	Blue



S Type (7165-0118)

Cable size (mm ²)	(AV/0.5~1.25) (AVX/0.75~1.25) (AVS/0.85~1.25) (AVSS/1.25~2.0) (AVSSX/1.25~2.0)
Cable overall diameter (mm)	2.1~2.9
Material	N.B.R.
Color	Brown



M Type (7165-0119)

Dummy plugs (UNIT: mm)

- Dummy Plugs are common to M and F.
- Dummy Plugs are used to blind unused terminal holes.

Material	N.B.R.
Color	Brown



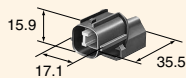
SS Type (7161-9787)

Housing (UNIT: mm)

Material / P.B.T.

Color / Dark Gray

Ref: Terminal part No.	F-02
Ref: Wire seal No.	F-03
Ref: Dummy plug No.	F-03



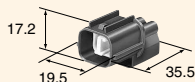
Retainer No. (6918-0699) **M(6181-0227)**

Ref: Terminal part No.	F-02
Ref: Wire seal No.	F-03
Ref: Dummy plug No.	F-03



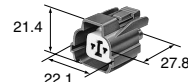
Retainer No. (6918-0698) **F(6189-0386)**

Ref: Terminal part No.	F-02
Ref: Wire seal No.	F-03
Ref: Dummy plug No.	F-03



Retainer No. (6918-0323) **M(6181-0070)**

Ref: Terminal part No.	F-02
Ref: Wire seal No.	F-03
Ref: Dummy plug No.	F-03



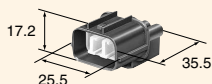
Retainer No. (6918-0322) **F(6189-0129)**

HW SEALED SERIES

090(2.3 mm) / STANDARD

3way

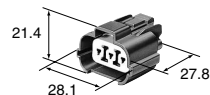
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0325)

M(6181-0071)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

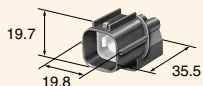


Retainer No. (6918-0324)

F(6189-0130)

3way
(T type)

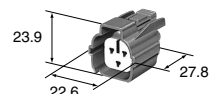
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0327)

M(6181-0072)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

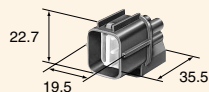


Retainer No. (6918-0326)

F(6189-0131)

4way

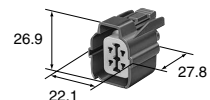
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0329)

M(6181-0073)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

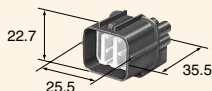


Retainer No. (6918-0328)

F(6189-0132)

6way

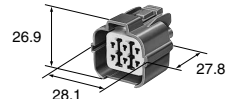
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0331)

M(6181-0074)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

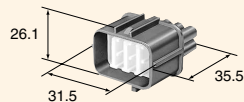


Retainer No. (6918-0330)

F(6189-0133)

8way

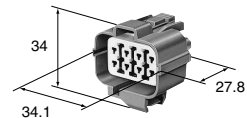
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0333)

M(6181-0075)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

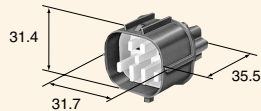


Retainer No. (6918-0332)

F(6189-0134)

10way

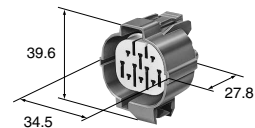
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0335)

M(6181-0076)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

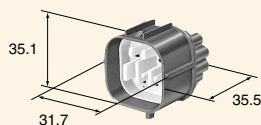


Retainer No. (6918-0334)

F(6189-0135)

14way

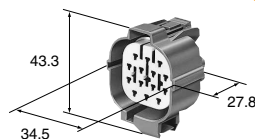
Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03



Retainer No. (6918-0337)

M(6181-0077)

Ref: Terminal part No. F-02
Ref: Wire seal No. F-03
Ref: Dummy plug No. F-03

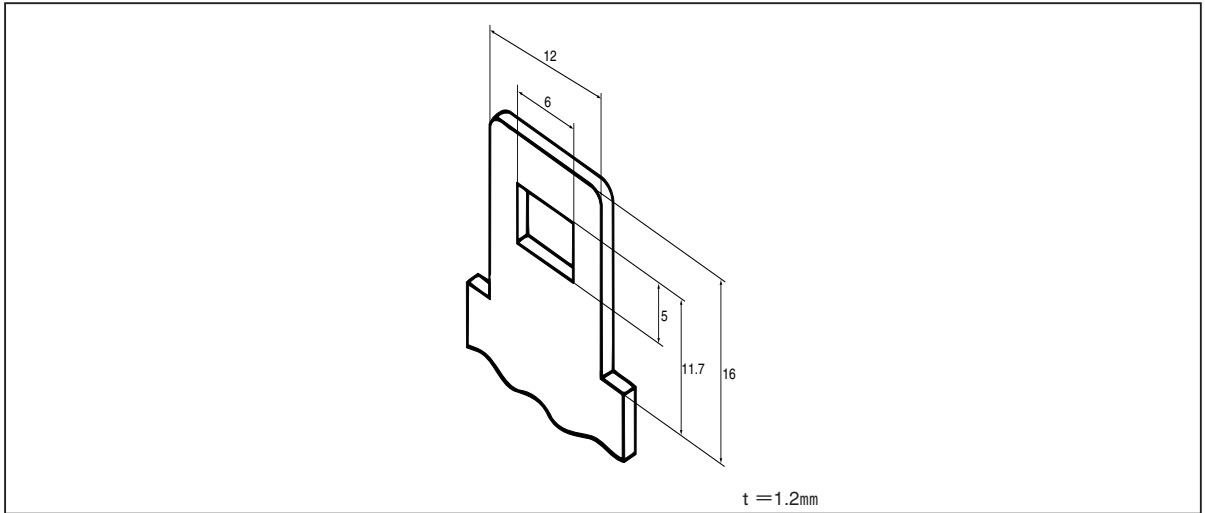


Retainer No. (6918-0336)

F(6189-0136)

▶▶ Bracket for attaching (UNIT: mm) ◀◀

Connector M can be fixed with bracket (In case 2, 3, 3 T-type, 4 and 6 poled),
8, 10 and 14 poled connectors can be fixed with bracket only after their complete mating. (unable before mating)



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