

Terminal

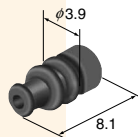
※For terminal selection, please contact our sales staff.

Wire seals (UNIT: mm)

●The wire seals are common to M and F.

040

Cable size (mm ²)	(AVSS / 0.3~0.5) (AVSSX / 0.3~0.5) (AVSSX / 0.3~0.5) (CAVUS / 0.3~0.5)
Cable overall diameter (mm)	1.1~1.7
Material	Silicone
Color	Dark Brown



S Type **(7165-0728)**

Dummy plugs

※For dummy plugs selection, please contact our sales staff.

Housing (UNIT: mm)

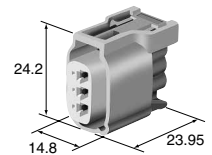
Material / P.B.T.

Color / Natural

Retainer / Built-in the connector housing.

3way

Ref: Terminal part No.	※
Ref: Wire seal No.	D-07
Ref: Dummy plug No.	※



F(6189-0892)

TS SEALED SERIES

040, 187(1.0 mm, 4.8 mm)/HYBRID

Hybrid connectors integrate models of 040 and 187 for the applications where control circuits and power circuits are handled together.

D-08

Terminal

※For terminal selection, please contact our sales staff.

Wire seals

●Ref: 040 Wire seal List (Page D-07), 187 Wire seal List (Page D-19)

Dummy plugs

※For dummy plugs selection, please contact our sales staff.

Housing (UNIT: mm)

Material/P.B.T.

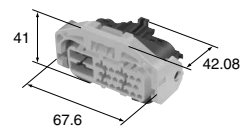
Color/Black

Retainer/Built-in the connector housing.

No. of way : () corresponds to 040, 187, in order from left to right.

24way
(20+4)

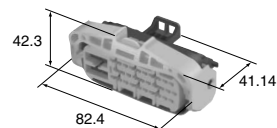
Ref: Terminal part No.
[040] ※ [187] D-18
Ref: Wire seal No.
[040] D-07 [187] D-19
Ref: Dummy plug No.
[040] ※ [187] D-19



F(6189-0886)

34way
(30+4)

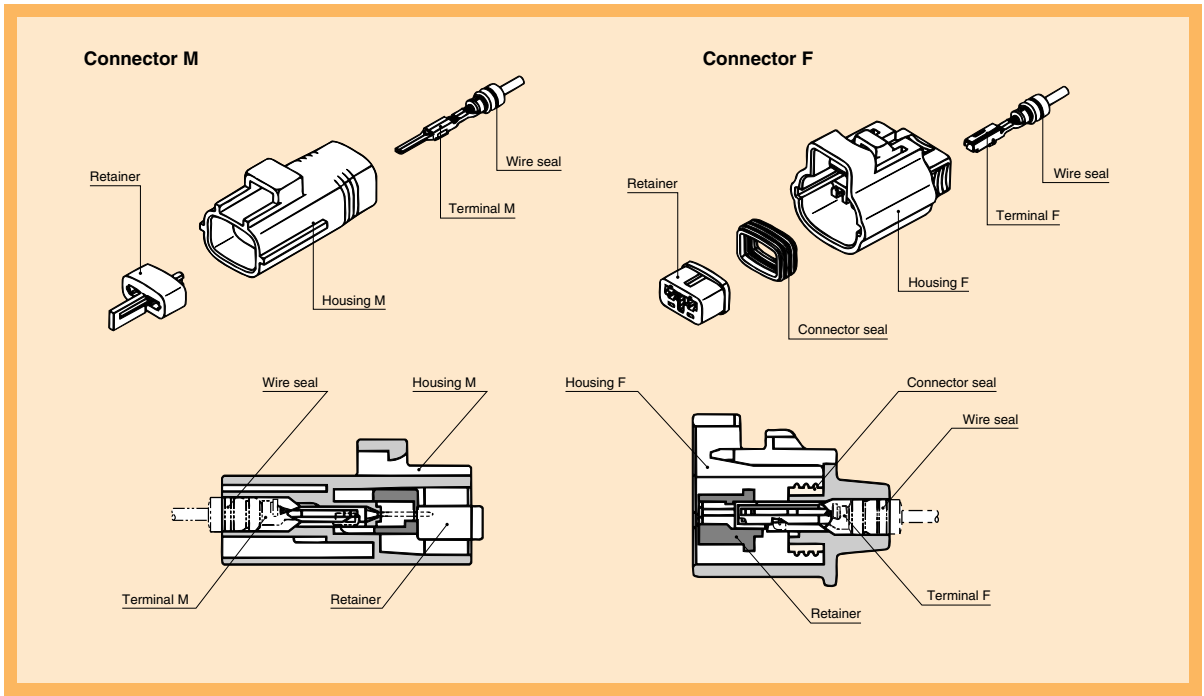
Ref: Terminal part No.
[040] ※ [187] D-18
Ref: Wire seal No.
[040] D-07 [187] D-19
Ref: Dummy plug No.
[040] ※ [187] D-19



F(6189-0804)

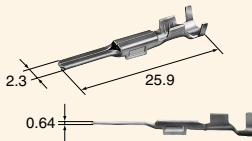
Structure

D-09



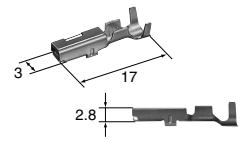
Terminal (UNIT: mm)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.3



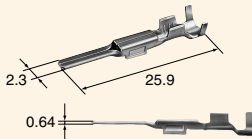
M(8100-0457)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.1
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.25



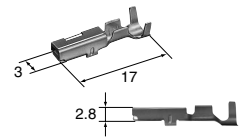
F(8100-0460)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.2
Material	Brass
Surface treatment	Gold-plated
Reel (piece)	4000
Thickness (mm)	0.3



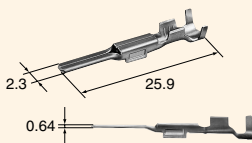
M(8100-1340)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.2
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated
Reel (piece)	4000
Thickness (mm)	0.25



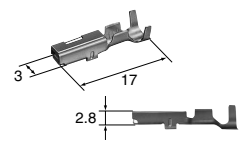
F(8100-1344)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.6
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.3



M(8100-0458)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.6
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	4000
Thickness (mm)	0.25

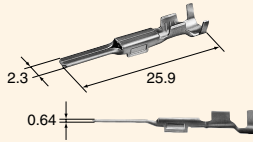


F(8100-0461)

090

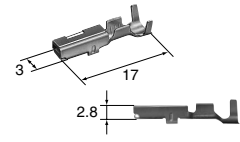
D-10

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Brass
Surface treatment	Gold-plated
Reel (piece)	4000
Thickness (mm)	0.3



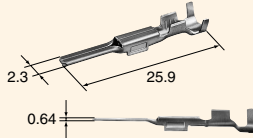
M(8100-1007)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated
Reel (piece)	4000
Thickness (mm)	0.25



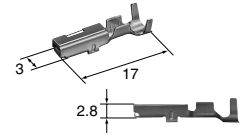
F(8100-0594)

Cable size (mm ²)	2.0
Cable overall diameter (mm)	2.6~2.7
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	3000
Thickness (mm)	0.3



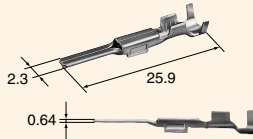
M(8100-0459)

Cable size (mm ²)	2.0
Cable overall diameter (mm)	2.6~2.7
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	3000
Thickness (mm)	0.25



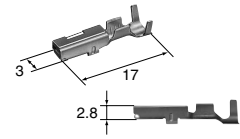
F(8100-0462)

Cable size (mm ²)	2.0
Cable overall diameter (mm)	2.6~2.9
Material	Brass
Surface treatment	Gold-plated
Reel (piece)	4000
Thickness (mm)	0.3



M(8100-1008)

Cable size (mm ²)	2.0
Cable overall diameter (mm)	2.6~2.9
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated
Reel (piece)	3000
Thickness (mm)	0.25



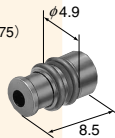
F(8100-0817)

090

Wire seals (UNIT: mm)

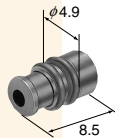
- The wire seals are common to M and F.
- P5 : For 5mm pitch housing
- P6 : For 6mm pitch housing

Cable size (mm ²)	(AVX·AEX/0.3) (AVS/0.3) (AVS/0.3~0.85) (AVSS·AESSX/0.3~0.75) (CAVUS/0.85~1.25)
Cable overall diameter (mm)	1.4~2.0
Material	Silicone
Color	Brown



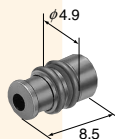
S Type (7165-0342)

Cable size (mm ²)	(AV/0.5~0.85) (AVX·AEX/0.5~0.75) (AVS/0.5~0.85) (AVSS/1.25) (AVSSX·AESSX/1.25)
Cable overall diameter (mm)	2.0~2.5
Material	Silicone
Color	Black



M Type (7165-0343)

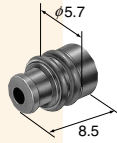
Cable size (mm ²)	(AV/1.25) (AVX·AEX/1.25) (AVS/1.25) (AVSS/2.0) (AVSSX·AESSX/2.0)
Cable overall diameter (mm)	2.5~2.9
Material	Silicone
Color	Dark Blue



L Type (7165-0344)

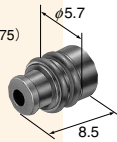
090
(For P5)

Cable size (mm ²)	(CHFUS / 0.35~0.5)
Cable overall diameter (mm)	1.1~1.4
Material	Silicone
Color	Blue



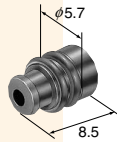
SS Type (7165-0842)

Cable size (mm ²)	(AVX·AEX / 0.3) (AVS / 0.3) (AVSS / 0.3~0.85) (AVSSX·AESSX / 0.3~0.75) (CAVUS / 0.85~1.25)
Cable overall diameter (mm)	1.4~2.0
Material	Silicone
Color	Dark Brown



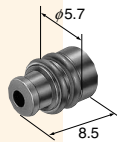
S Type (7165-0349)

Cable size (mm ²)	(AV / 0.5~0.85) (AVX·AEX / 0.5~0.75) (AVS / 0.5~0.85) (AVSS / 1.25) (AVSSX·AESSX / 1.25)
Cable overall diameter (mm)	2.0~2.5
Material	Silicone
Color	Dark Green



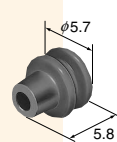
M Type (7165-0395)

Cable size (mm ²)	(AV / 1.25) (AVX·AEX / 1.25) (AVS / 1.25) (AVSS / 2.0) (AVSSX·AESSX / 2.0)
Cable overall diameter (mm)	2.5~2.9
Material	Silicone
Color	Dark Gray



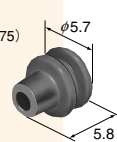
L Type (7165-0351)

Cable size (mm ²)	(AV / 0.5~0.85) (AVX·AEX / 0.5~0.75) (AVS / 0.5~1.25) (AVSS / 1.25~2.0) (AVSSX·AESSX / 1.25~2.0)
Cable overall diameter (mm)	1.8~2.7
Material	N.B.R.
Color	Black



M Type (7160-8234)

Cable size (mm ²)	(AVX·AEX / 0.3) (AVS / 0.3) (AVSS / 0.3~0.85) (AVSSX·AESSX / 0.3~0.75) (CAVUS / 0.85~1.25)
Cable overall diameter (mm)	1.4~2.0
Material	N.B.R.
Color	Green



S Type (7165-0076)

090
(For P6)

090
(For fine cables)

TS SEALED SERIES

090(2.3 mm) / STANDARD

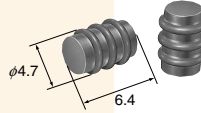
Dummy plugs (UNIT: mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- P5 : For 5mm pitch housing
- P6 : For 6mm pitch housing

D-12

090

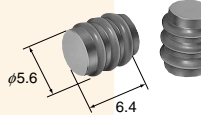
Material	N.B.R.
Color	Brown



For P5 (7161-9787)

090

Material	N.B.R.
Color	Black



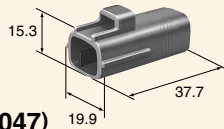
For P6 (7160-9465)

Housing (UNIT: mm)

Material / P.B.T.
Color / Other housing colors are also available at your request.
Retainer / Built-in the connector housing.

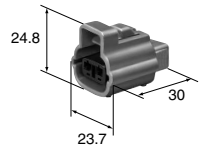
2way

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



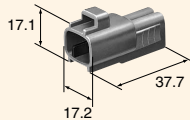
M(6188-0047)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



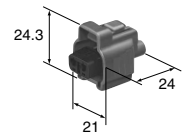
F(6189-0100)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



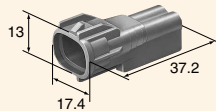
M(6188-0108)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



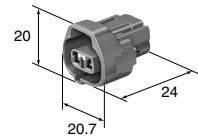
F(6189-0199)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



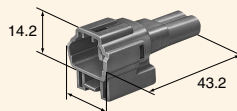
M(6188-0266)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



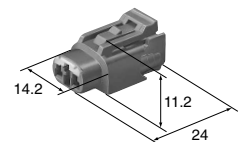
F(6189-0249)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



M(6188-0229)

Ref: Terminal part No.	D-09
Ref: Wire seal No.	D-11 (For P6)
Ref: Dummy plug No.	D-12 (For P6)



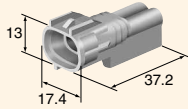
F(6189-0388)

TS SEALED SERIES

090(2.3 mm) / STANDARD

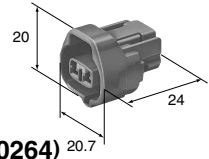
D-13

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



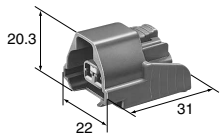
M(6188-0624)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



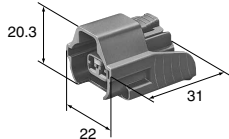
F(6189-0264)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-10 (For P5)
 Ref: Dummy plug No. D-12 (For P5)



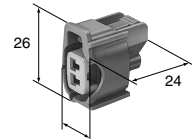
F(6189-0566)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-10 (For P5)
 Ref: Dummy plug No. D-12 (For P5)



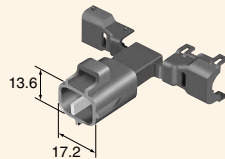
F(6189-0573)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-10 (For P5)
 Ref: Dummy plug No. D-12 (For P5)



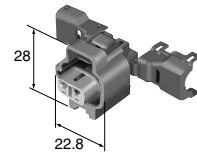
F(6189-0611)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



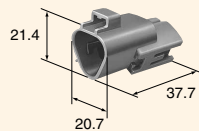
M(6188-0470)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



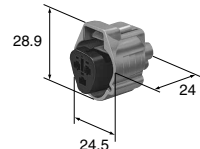
F(6189-0682)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



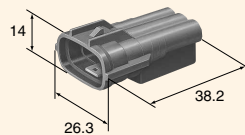
M(6188-0099)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0179)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0282)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0443)

2way

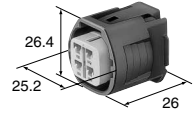
3way

TS SEALED SERIES

090(2.3 mm) / STANDARD

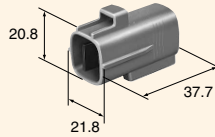
D-14

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



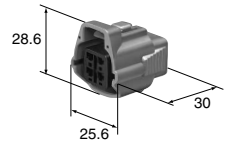
F(6189-0694)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



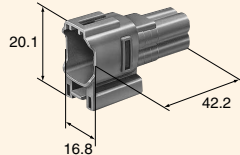
M(6188-0066)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



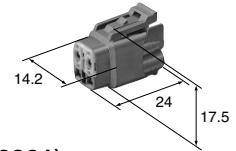
F(6189-0126)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0141)

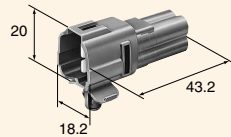
Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0381)

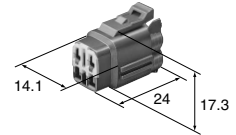
4way

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0217)

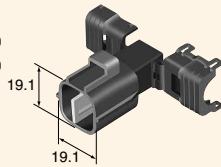
Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0372)

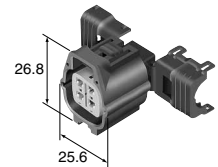
Plate thickness range for clamp :
 t = 0.7~2.2

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0442)

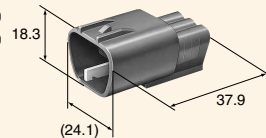
Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0656)

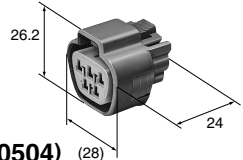
5way

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0327)

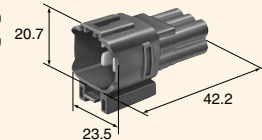
Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0504)

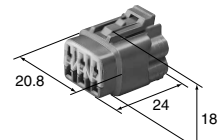
6way

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0173)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0319)

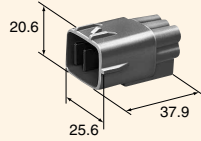
TS SEALED SERIES

090(2.3 mm) / STANDARD

D-15

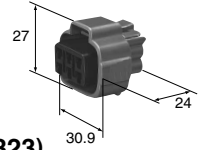
6way

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0175)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0323)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)

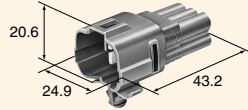
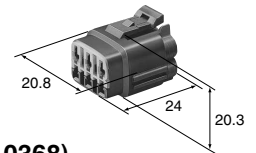


Plate thickness range for clamp :
 t = 0.7 ~ 2.2

M(6188-0209)

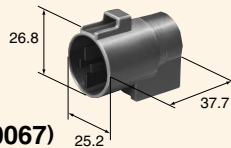
Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0368)

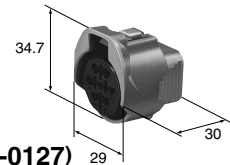
7way

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



M(6188-0067)

Ref: Terminal part No. D-09
 Ref: Wire seal No. D-11 (For P6)
 Ref: Dummy plug No. D-12 (For P6)



F(6189-0127)

Hybrid connectors integrate models of 090 and 187 for the applications where control circuits and power circuits are handled together.

D-16

Terminal

● Ref: 090 Terminal List (Page D-09), 187 Terminal List (Page D-18)

Wire seals

● Ref: 090 Wire seal List (Page D-10), 187 Wire seal List (Page D-19)

Dummy plugs

● Ref: 090 Dummy plug List (Page D-11), 187 Dummy plug List (Page D-19)

Housing (UNIT: mm)

Material/P.B.T.

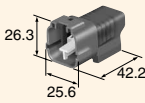
Color/Other housing colors are also available at your request.

Retainer/Built-in the connector housing.

No. of way: () corresponds to 090, 187, in order from left to right.

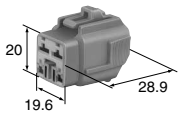
4way
(2+2)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



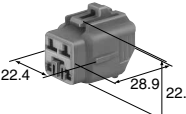
M(6188-0415)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19




F(6189-0144)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



F(6189-0390)

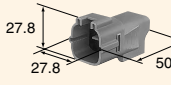
Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



F(6189-0557)


5way
(3+2)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



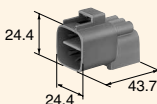
M(6188-0091)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19




F(6189-0166)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



M(6188-0101)

Ref: Terminal part No.	[090] D-09 [187] D-18
Ref: Wire seal No.	[090] D-11 (For P6) [187] D-19
Ref: Dummy plug No.	[090] D-12 (For P6) [187] D-19



F(6189-0181)

TS SEALED SERIES

090, 187(2.3 mm, 4.8 mm) / HYBRID

D-17

6way
(4+2)

Ref: Terminal part No.

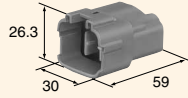
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-11 (For P6) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P6) [187] D-19



M(6188-0187)

Ref: Terminal part No.

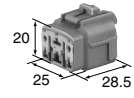
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-11 (For P6) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P6) [187] D-19



F(6189-0143)

11way
(8+3)

Ref: Terminal part No.

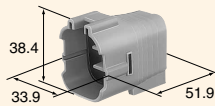
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-11 (For P6) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P6) [187] D-19



M(6188-0221)

Ref: Terminal part No.

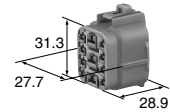
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-11 (For P6) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P6) [187] D-19



F(6189-0376)

24way
(20+4)

Ref: Terminal part No.

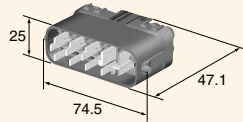
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-10 (For P5) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P5) [187] D-19



M(6188-0539)

Ref: Terminal part No.

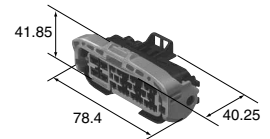
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-10 (For P5) [187] D-19

Ref: Dummy plug No.

[090] D-12 (For P5) [187] D-19



F(6189-0630)

Ref: Terminal part No.

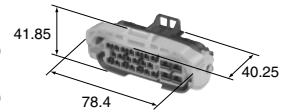
[090] D-09 [187] D-18

Ref: Wire seal No.

[090] D-10 (For P5) [187] D-19

Ref: Dummy plug No.

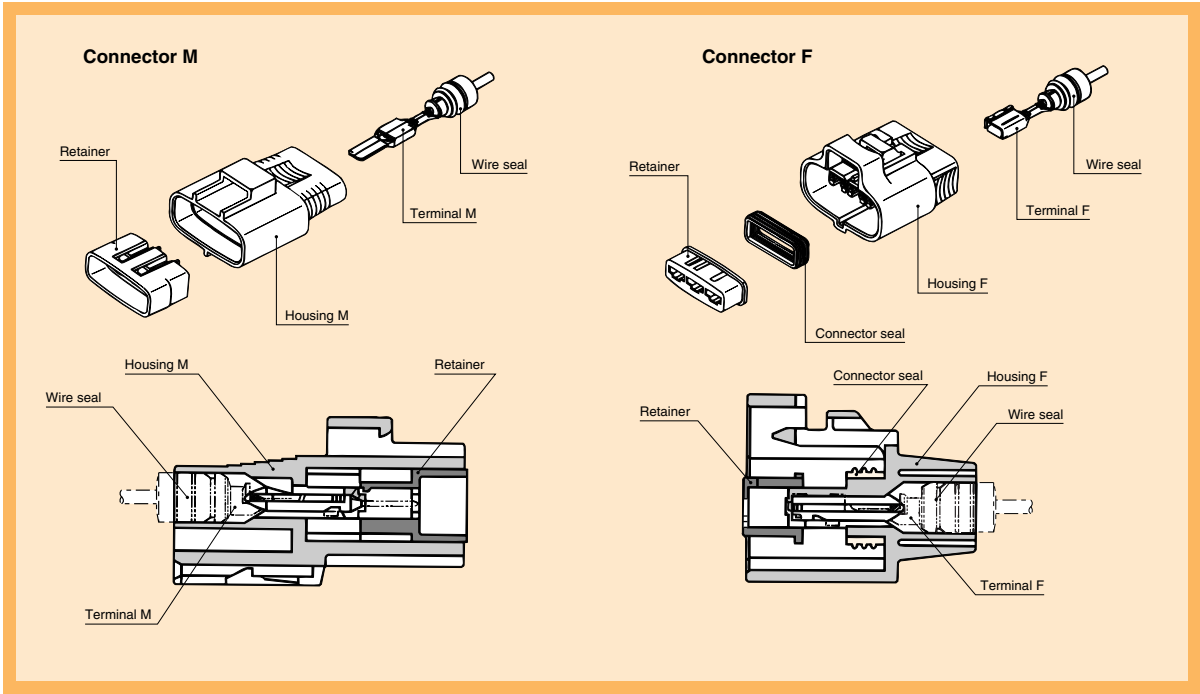
[090] D-12 (For P5) [187] D-19



F(6189-0612)

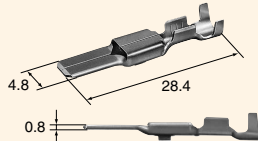
Structure

D-18



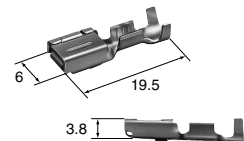
Terminal (UNIT: mm)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	3000
Thickness (mm)	0.4



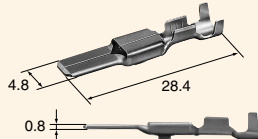
M(8100-0463)

Cable size (mm ²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	2500
Thickness (mm)	0.4



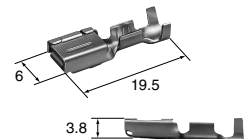
F(8100-0466)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	3000
Thickness (mm)	0.4



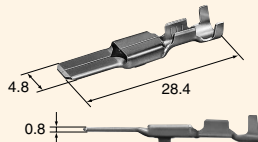
M(8100-0464)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	2500
Thickness (mm)	0.4



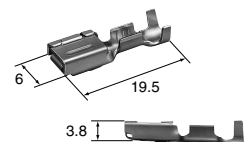
F(8100-0467)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.6~4.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	2500
Thickness (mm)	0.4



M(8100-0465)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.6~4.1
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	2000
Thickness (mm)	0.4



F(8100-0468)

187

Wire seals (UNIT: mm)

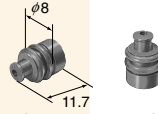
●The wire seals are common to M and F.

Cable size (mm ²)	(AVX·AEX/0.3) (AVS/0.3) (AVSS/0.3~0.85) (AVSSX·AESSX/0.5~0.75) (CAVUS/0.85~1.25)
-------------------------------	--

Cable overall diameter (mm)	1.4~2.0
-----------------------------	---------

Material	Silicone
----------	----------

Color	Dark Brown
-------	------------



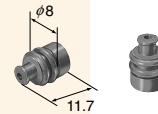
S Type (7165-0346)

Cable size (mm ²)	(AV/0.5~1.25) (AVX·AEX/0.5~1.25) (AVS/0.5~1.25) (AVSS/1.25~2.0) (AVSSX·AESSX/1.25~2.0)
-------------------------------	--

Cable overall diameter (mm)	2.0~2.9
-----------------------------	---------

Material	Silicone
----------	----------

Color	Dark Green
-------	------------



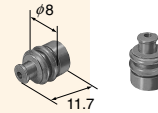
M Type (7165-0347)

Cable size (mm ²)	(AV/2.0) (AVX·AEX/2.0) (AVS/2.0)
-------------------------------	-------------------------------------

Cable overall diameter (mm)	2.9~3.5
-----------------------------	---------

Material	Silicone
----------	----------

Color	Dark Gray
-------	-----------



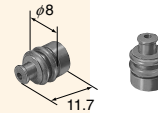
L Type (7165-0348)

Cable size (mm ²)	(AV/3.0) (AVX·AEX/3.0) (AVS/3.0)
-------------------------------	-------------------------------------

Cable overall diameter (mm)	3.5~4.1
-----------------------------	---------

Material	Silicone
----------	----------

Color	Dark Blue
-------	-----------



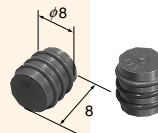
LL Type (7165-0356)

187

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	Gray



(7165-0145)

187

TS SEALED SERIES

187(4.8 mm) / STANDARD

Housing (UNIT: mm)

Material / P.B.T.

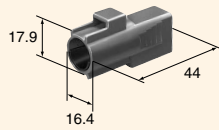
Color / Other housing colors are also available at your request.

Retainer / Built-in the connector housing.

D-20

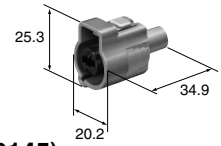
1way

Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



M(6188-0083)

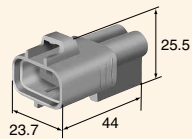
Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



F(6189-0145)

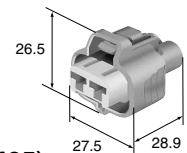
2way

Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



M(6188-0259)

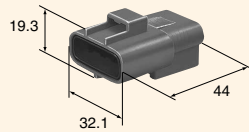
Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



F(6189-0425)

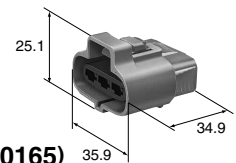
3way

Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



M(6188-0129)

Ref: Terminal part No. D-18
Ref: Wire seal No. D-19
Ref: Dummy plug No. D-19



F(6189-0165)

Hybrid connectors integrate models of 187 and 312 for the applications where control circuits and power circuits are handled together.

Terminal

●Ref: 187 Terminal List (Page D-18), 312 Terminal List (Page D-22)

Wire seals

●Ref: 187 Wire seal List (Page D-19), 312 Wire seal List (Page D-23)

Dummy plugs

●Ref: 187 Dummy plug List (Page D-19), 312 Dummy plug List (Page D-23)

Housing (UNIT: mm)

Material / P.B.T.

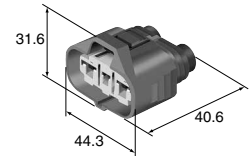
Color / Other housing colors are also available at your request.

Retainer / Built-in the connector housing.

No. of way: () corresponds to 187, 312, in order from left to right.

3way
(1+2)

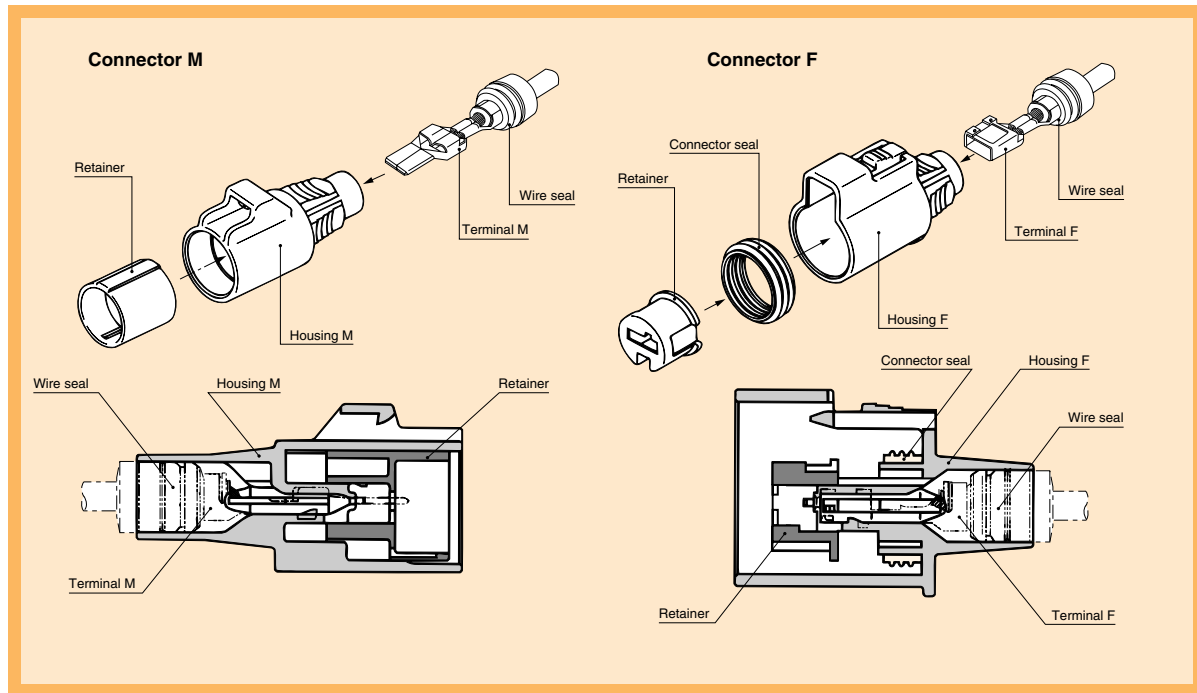
Ref: Terminal part No.	[187] D-18 [312] D-22
Ref: Wire seal No.	[187] D-19 [312] D-23
Ref: Dummy plug No.	[187] D-19 [312] D-23



F(6189-0588)

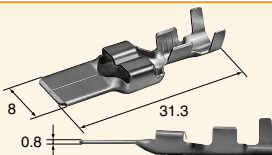
Structure

D-22



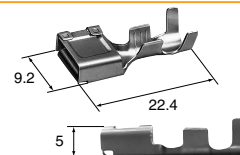
Terminal (UNIT: mm)

Cable size (mm ²)	3.0
Cable overall diameter (mm)	2.6~4.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	1000
Thickness (mm)	0.4



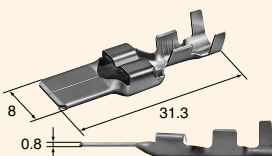
M(8100-0507)

Cable size (mm ²)	3.0
Cable overall diameter (mm)	2.6~4.1
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	1000
Thickness (mm)	0.4



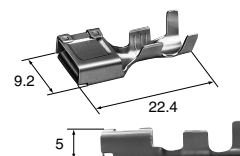
F(8100-0452)

Cable size (mm ²)	5.0~8.0
Cable overall diameter (mm)	4.4~5.8
Material	Brass
Surface treatment	Tin-plated
Reel (piece)	—
Thickness (mm)	0.4



M(8100-0508)

Cable size (mm ²)	5.0~8.0
Cable overall diameter (mm)	4.4~5.8
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated
Reel (piece)	900
Thickness (mm)	0.4



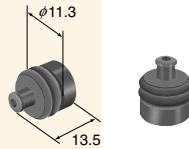
F(8100-2980)

312

Wire seals (UNIT: mm)

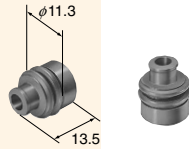
●The wire seals are common to M and F.

Cable size (mm ²)	(AVS/0.5) ~ (AVX/1.25)
Cable overall diameter (mm)	Over 2.1 mm less than 2.9 mm
Material	Silicone
Color	Dark Brown



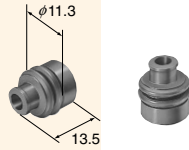
SS Type (7165-0683)

Cable size (mm ²)	(AV/3.0) (AVX·AEX/3.0) (AVS/3.0)
Cable overall diameter (mm)	3.6~4.1
Material	Silicone
Color	Dark Gray



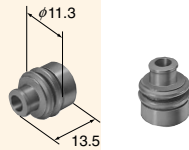
S Type (7165-0400)

Cable size (mm ²)	(AV/5.0) (AVX·AEX/5.0) (AVS/5.0)
Cable overall diameter (mm)	4.4~4.9
Material	Silicone
Color	Dark Blue



M Type (7165-0392)

Cable size (mm ²)	(AV/8.0) (AVX·AEX/8.0) (AVS/8.0)
Cable overall diameter (mm)	5.3~5.8
Material	Silicone
Color	Black



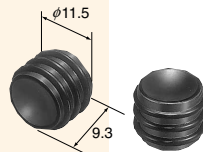
L Type (7165-0393)

312

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	Black



(7165-0180)

312

TS SEALED SERIES

312(8.0 mm) / STANDARD

Housing (UNIT: mm)

Material / P.B.T.

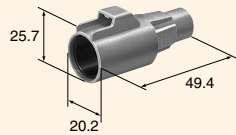
Color / Other housing colors are also available at your request.

Retainer / Built-in the connector housing.

D-24

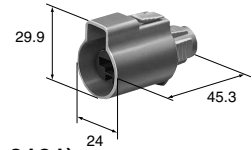
1way

Ref: Terminal part No. D-22
Ref: Wire seal No. D-23
Ref: Dummy plug No. D-23



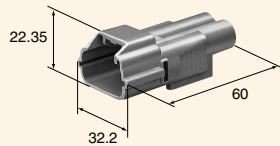
M(6188-0049)

Ref: Terminal part No. D-22
Ref: Wire seal No. D-23
Ref: Dummy plug No. D-23



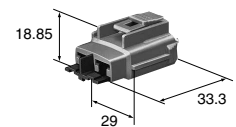
F(6189-0101)

Ref: Terminal part No. D-22
Ref: Wire seal No. D-23
Ref: Dummy plug No. D-23



M(6188-0096)

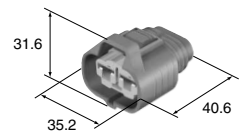
Ref: Terminal part No. D-22
Ref: Wire seal No. D-23
Ref: Dummy plug No. D-23



F(6189-0172)

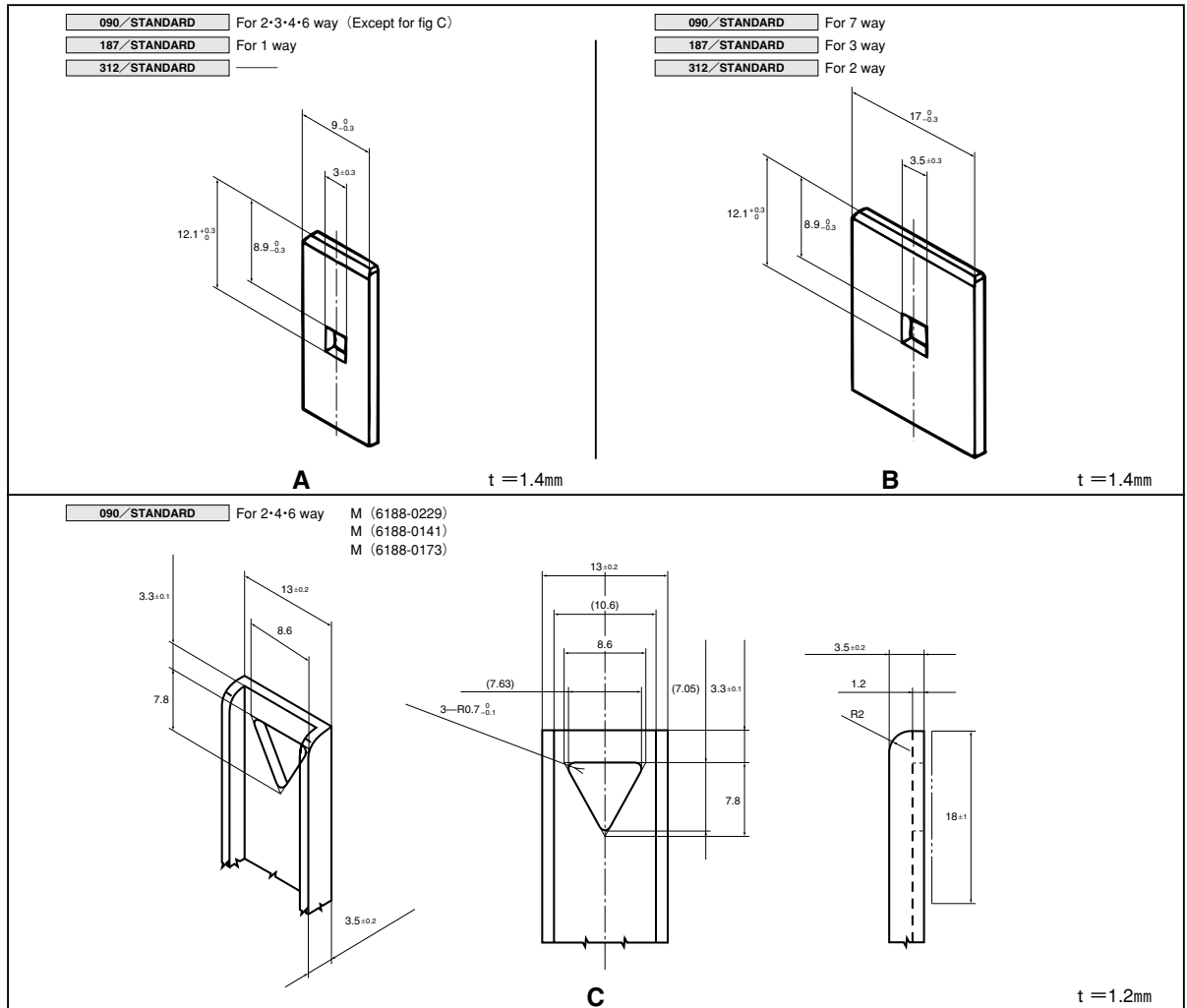
2way

Ref: Terminal part No. D-22
Ref: Wire seal No. D-23
Ref: Dummy plug No. D-23



F(6189-0856)

Bracket for attaching (UNIT: mm)



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.