

DL SERIES

N-01

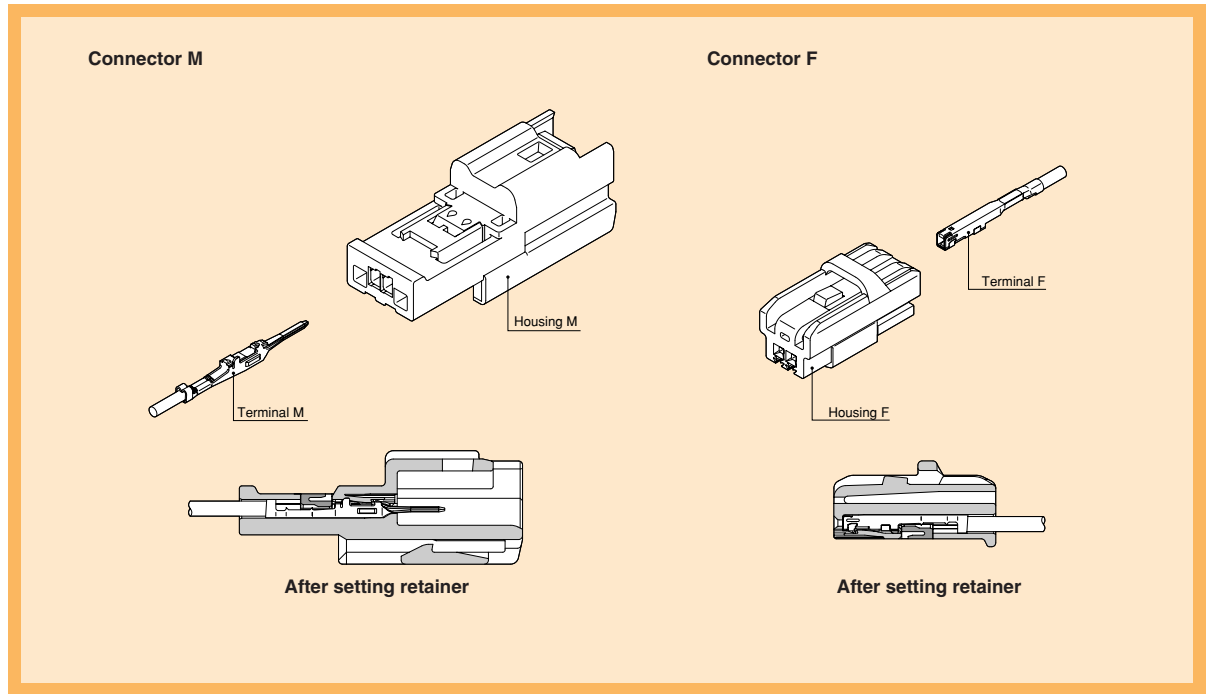
Features

The DL connector series has a mechanism that detects when terminals are not inserted completely.

This series consists of 025, 040, and 090 types (040, 090, and 187 types for the hybrid model) 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.
- A PCB model is also available for connection to printed circuit boards.

Structure



N-02

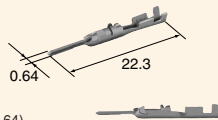
Terminal (UNIT: mm)

※For terminal selection, please contact our sales staff.

025
(S)

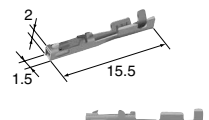
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.22~0.35 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 6000 |
| Thickness (mm) | 0.25 |

(Tab thickness : 0.64)



M(8100-4028)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 0.22~0.35 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 6000 |
| Thickness (mm) | 0.2 |

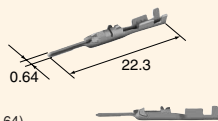


F(8100-4029)

025
(M)

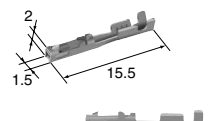
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.5~0.75 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 6000 |
| Thickness (mm) | 0.25 |

(Tab thickness : 0.64)



M(8100-4027)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 0.5~0.75 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 6000 |
| Thickness (mm) | 0.2 |



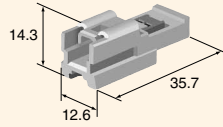
F(8100-4030)

Housing (UNIT: mm)

Material / P.B.T.

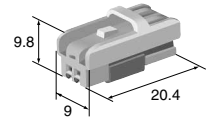
Color / Natural

Ref. Terminal part No. N-02



M(6098-4569)

Ref. Terminal part No. N-02



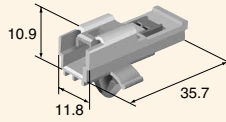
F(6098-4565)

2way

Ref. Terminal part No. N-02

Note

With body fastening clamp



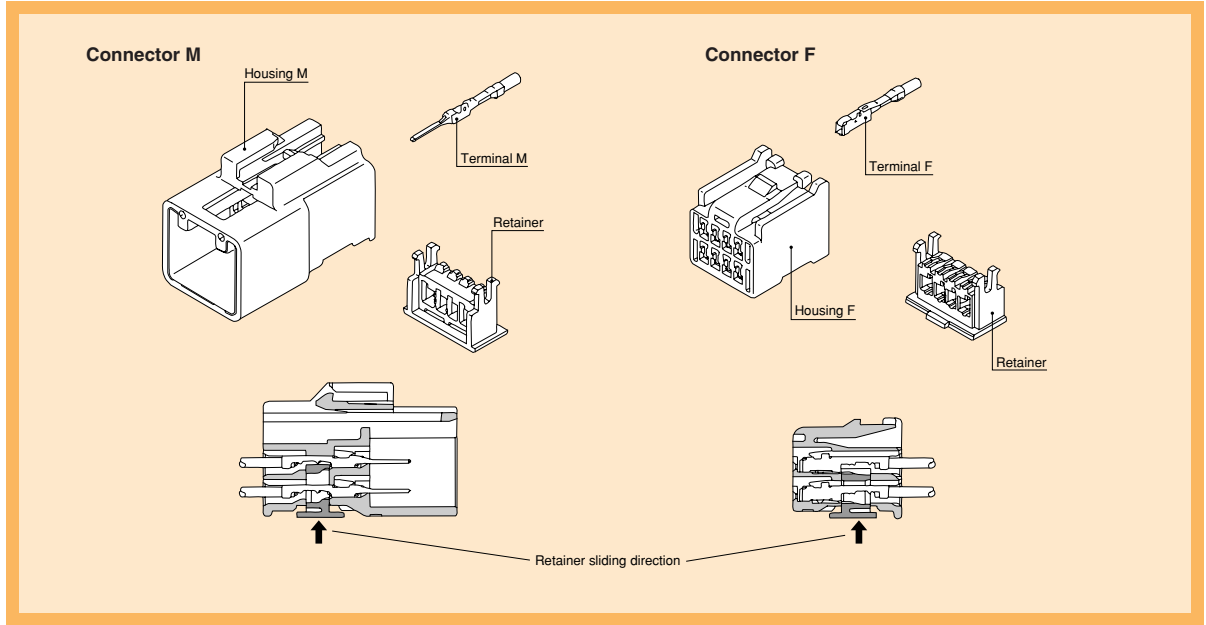
M(6098-4567)

Clamp fitting size :
Plate thickness t = 0.6~2.0mm
Hole = 7.2mm x 10.2mm

N-03

This connector has a terminal pitch of 2.5 mm.

Structure



N-04

Terminal (UNIT: mm)

※ For terminal selection, please contact our sales staff.

Note) M size terminal can be used connector with insertion cavity specified. For details please contact our sales staff.

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.25 |

(Tab thickness : 0.64)

M(8100-2512)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.2 |

F(8100-1710)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Gold-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.2 |

F(8100-1978)

| | |
|-------------------------------|-----------------|
| Cable size (mm ²) | 0.75, 0.85~1.25 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.25 |

(Tab thickness : 0.64)

M(8100-2513)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 0.75, 0.85~1.25 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.2 |

F(8100-2514)

Note)

Note)

※ Surface treatment of gold-plated is available to meet your needs.
Thick size is for the time being now.

040 (M)

040 (S)

DL SERIES

040(1.0 mm) / STANDARD

Housing (UNIT: mm)

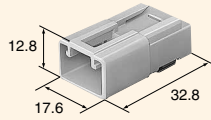
Material / P.B.T.

Color / Natural

Note) M size terminal can be used connector with insertion cavity specified. For details please contact our sales staff.

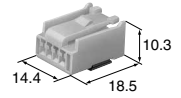
4way

Ref: Terminal part No. N-04



M(6098-2158)

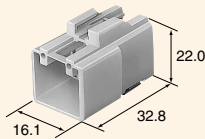
Ref: Terminal part No. N-04



F(6098-2013)

8way

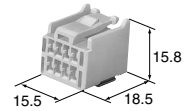
Ref: Terminal part No. N-04



Note)

M(6098-2206)

Ref: Terminal part No. N-04

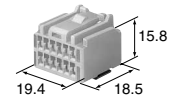


Note)

F(6098-2208)

12way

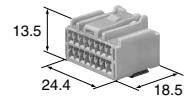
Ref: Terminal part No. N-04



F(6098-2289)

16way

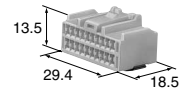
Ref: Terminal part No. N-04



F(6098-1624)

20way

Ref: Terminal part No. N-04



F(6098-1626)

N-05

Terminal

●Ref: 040 Terminal List (page N-04), 090 Terminal List (page N-08), 187 Terminal List (page A-24)

Housing (UNIT: mm)

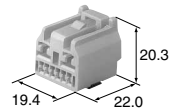
Material/P.B.T.

Color/Natural

No. of way : () corresponds to 040, 090, 187, in order from left to right.

8way
(6+2)

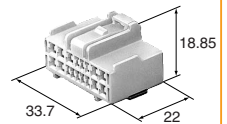
Ref: Terminal part No. [040] N-04
[187] A-24



F(6098-2103)

17way
(9+8)

Ref: Terminal part No. [040] N-04
[090] N-08

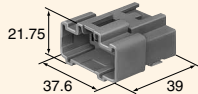


F(6098-1998)

N-06

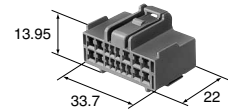
17way
(9+8)
Special shape

Ref: Terminal part No. [040] N-04
[090] N-08



M(6098-2245)

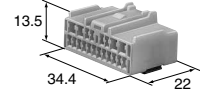
Ref: Terminal part No. [040] N-04
[090] N-08



F(6098-2016)

20way
(16+4)

Ref: Terminal part No. [040] N-04
[090] N-08



F(6098-2056)

Housing (UNIT: mm)

Material / P.B.T.

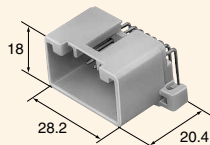
Color / Natural

Terminal material / Brass

Terminal surface treatment / Tin-plated (Also it's possible to Gold-plated.)

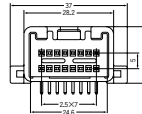
16way
(Horizontal type)

Connector F part No.
(6098-1624)
Terminal type
040

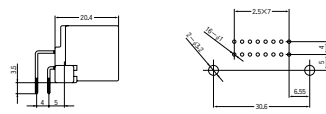


M(6098-1815)

● Dimensional drawing

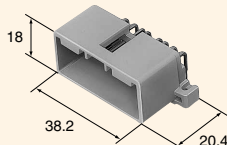


● Mounting drawing



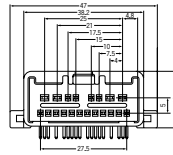
**HYB
20way**
(16+4)
(Horizontal type)

Connector F part No.
(6098-2056)
Terminal type
16way(040)+4way(090)

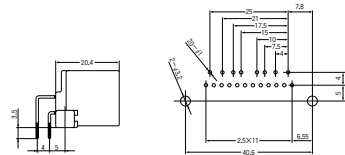


M(6098-1813)

● Dimensional drawing

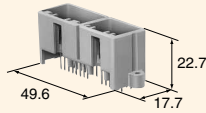


● Mounting drawing



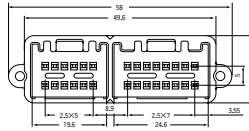
28way
(12+16)
(Vertical type)

Connector F part No.
(6098-2289) (6098-1624)
Terminal type
12way(040)+16way(040)

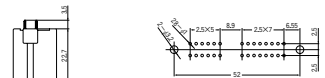


M(6098-2287)

● Dimensional drawing

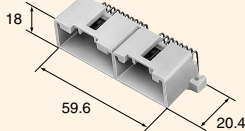


● Mounting drawing



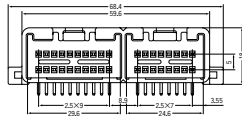
36way
(20+16)
(Horizontal type)

Connector F part No.
(6098-1626) (6098-1624)
Terminal type
20way(040)+16way(040)

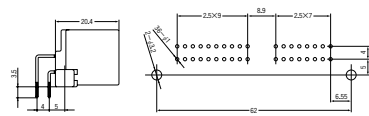


M(6098-1620)

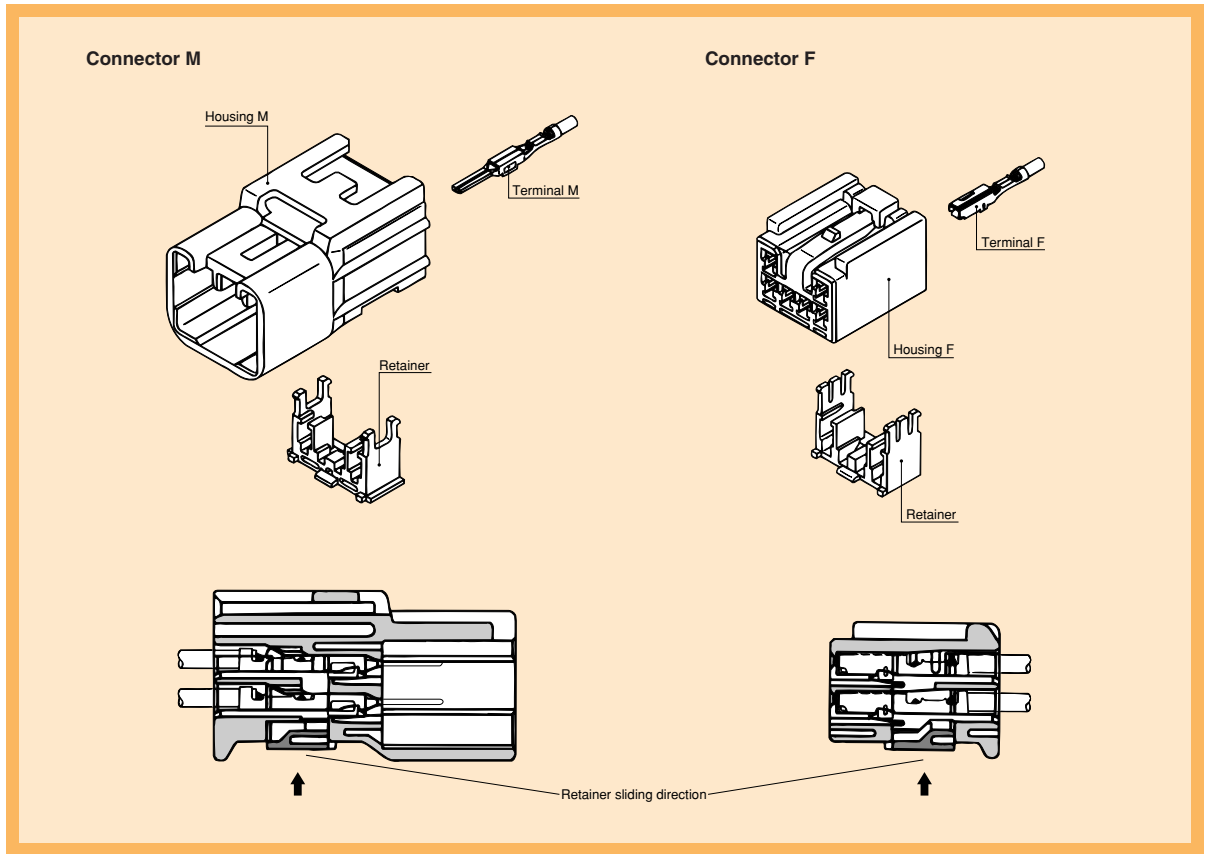
● Dimensional drawing



● Mounting drawing



Structure



N-08

Terminal (UNIT: mm)

※ For terminal selection, please contact our sales staff.
Regarding "Gold-plated Terminal", please see "A-19".

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.3 |

(Tab thickness : 0.64)

M(8230-4492)

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.25 |

F(8240-4882)

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.25 |

F(8240-0001)

090
(S)

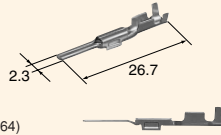
DL SERIES

090(2.3 mm) / STANDARD

090
(M)

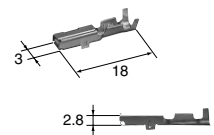
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.5~1.25 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 5000 |
| Thickness (mm) | 0.3 |

(Tab thickness : 0.64)



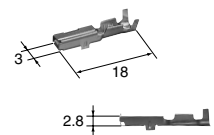
M(8230-4502)

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.5~1.25 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.25 |



F(8240-4892)

| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.5~1.25 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.25 |

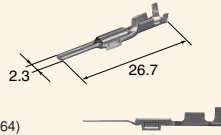


F(8240-0003)

090
(L)

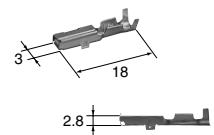
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 2.0 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.3 |

(Tab thickness : 0.64)



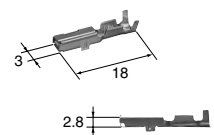
M(8230-4512)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 2.0 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.25 |



F(8240-4942)

| | |
|-------------------------------|-----------------------------|
| Cable size (mm ²) | 2.0 |
| Material | Heat-resistant copper alloy |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.25 |



F(8240-0002)

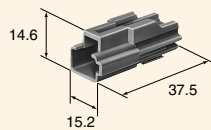
N-09

Housing (UNIT: mm)

Material / Low water absorption Nylon
Color / Natural

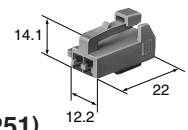
2way

Ref: Terminal part No. N-08



M(6249-1248)

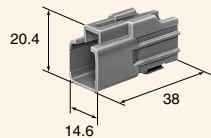
Ref: Terminal part No. N-08



F(6249-1251)

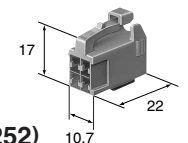
4way

Ref: Terminal part No. N-08



M(6249-1249)

Ref: Terminal part No. N-08



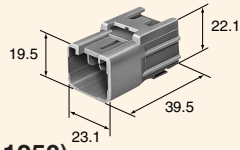
F(6249-1252)

DL SERIES

090(2.3 mm) / STANDARD

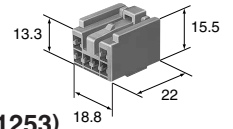
6way

Ref: Terminal part No. N-08



M(6249-1250)

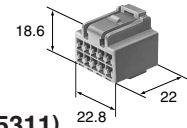
Ref: Terminal part No. N-08



F(6249-1253)

10way

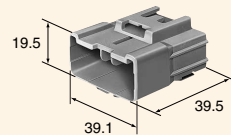
Ref: Terminal part No. N-08



F(6248-5311)

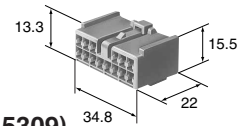
14way

Ref: Terminal part No. N-08



M(6249-1265)

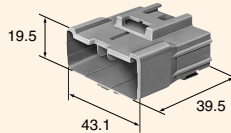
Ref: Terminal part No. N-08



F(6248-5309)

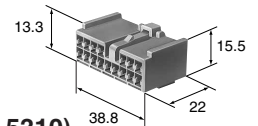
16way

Ref: Terminal part No. N-08



M(6249-1266)

Ref: Terminal part No. N-08



F(6248-5310)

DL SERIES

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

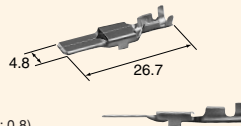
Terminal (UNIT: mm)

●Ref: 090 Terminal List (page N-08)

187
(S)

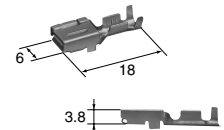
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.3~0.5 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 4000 |
| Thickness (mm) | 0.4 |

(Tab thickness : 0.8)



M(8230-4522)

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

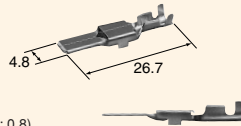


F(8240-4912)

187
(M)

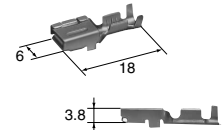
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 0.5~1.25 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 3200 |
| Thickness (mm) | 0.4 |

(Tab thickness : 0.8)



M(8230-4532)

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

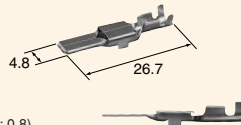


F(8240-4922)

187
(L)

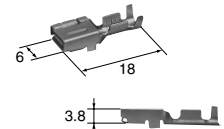
| | |
|-------------------------------|------------|
| Cable size (mm ²) | 2.0~3.0 |
| Material | Brass |
| Surface treatment | Tin-plated |
| Reel (piece) | 2300 |
| Thickness (mm) | 0.4 |

(Tab thickness : 0.8)



M(8230-4542)

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



F(8100-1555)

N-11

Housing (UNIT: mm)

Material / Low water absorption Nylon

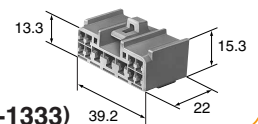
Color / Natural

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

※For terminal selection, please contact our sales staff.

11way
(8+3)

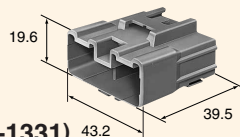
Ref: Terminal part No. [090] N-08
[187] N-11



F(6098-1333)

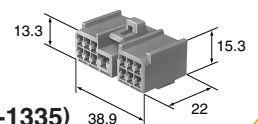
13way
(12+1)

Ref: Terminal part No. [090] N-08
[187] N-11



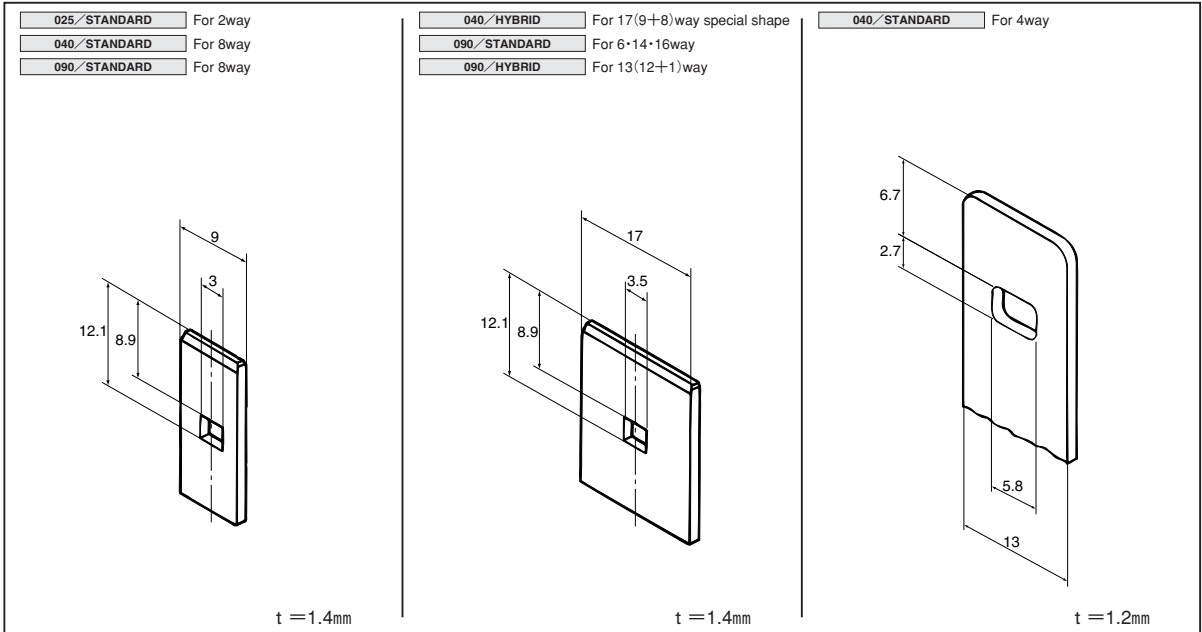
M(6098-1331)

Ref: Terminal part No. [090] N-08
[187] N-11



F(6098-1335)

▶▶ 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.