

CONNECTORS FOR AUTOMOBILES

自動車用コネクタ 2025



CONTENTS

unsealed／sealed 非防水／防水	Connector Series コネクタシリーズ	Terminal Tab Width 端子サイズ	No. of Way Variation 極数バリエーション	Applicable Cable Size 適用電線サイズ	Page掲載頁	Contact Resistance 接触抵抗（圧着部を含む）	Leak Current リーク電流	Insulation Resistance 絶縁抵抗	Material 材質				
unsealed	TS	0.64 (025)	2, 5, 10, 14, 16, 19, 22, 24, 28, 32, 36, 40	0.13 - 0.5	A-02	8mΩ max.(initial) 16mΩ max.(after durability tests)	3mA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy			
		1.5 (060)	2, 4, 8, 12	0.13 - 2.0	A-07	3mΩ max.(initial) 10mΩ max.(after durability tests)			ハウジングターミナル	Housing／PBT, PA6T Terminal／Brass, Heat-Resistant Copper Alloy			
		2.3 (090)	1, 2, 4, 6, 8, 9, 10, 11, 12, 13, 16, 20	0.22 - 2.0	A-10				ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy			
		4.8 (187)	1, 2, 3, 4, 6, 8, 10	0.3 - 3.0	A-16								
		8.0 (312)	1, 2, 3, 4	0.5 - 8.0	A-20								
		Hybrid	0.64+1.5	12, 18, 20	—	A-22			8mΩ max.(initial) 16mΩ max.(after durability tests)	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy		
			0.64+2.3	17, 18, 20	—	A-23							
			0.64+4.8	20	—	A-24							
			2.3+4.8	14, 15, 20, 26	—	A-24							
		PCB	0.64	16, 33, 36, 56, 60, 68	—	A-26			3mΩ max.(initial) 10mΩ max.(after durability tests) 8mΩ max.(initial) 16mΩ max.(after durability tests) 8mΩ max.(initial) 16mΩ max.(after durability tests)	ハウジングターミナル ハウジングターミナル	Housing／PBT G30, SPS G30 Terminal／Brass Housing／LCP Terminal／Brass		
			0.64+1.5	20	—	A-28							
	HE	0.5 (020)	12, 24, 42	0.13 - 0.5	C-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	1mA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy			
		0.64 (025)	2, 3, 4, 6, 7, 10, 12, 16, 20, 24, 34	0.22 - 0.75	C-05								
		1.0 (040)	2, 5, 6, 8, 13, 17, 21	0.22 - 0.85	C-09	3mΩ max.(initial) 6mΩ max.(after durability tests)							
		2.3 (090)	2, 3, 4, 5, 6, 8, 10, 14, 16, 20	0.3 - 2.0	C-12								
		4.8 (187)	2, 4, 5	0.3 - 3.0	C-15	2mΩ max.(initial) 4mΩ max.(after durability tests)							
		9.5 (375)	1, 2	2.0 - 10.0	C-17								
		Hybrid	0.64+2.3	12, 13, 18, 20, 23, 28	—	C-19			5mΩ max.(initial) 10mΩ max.(after durability tests) 3mΩ max.(initial) 6mΩ max.(after durability tests)				
			1.0+2.3	9, 10, 14, 23	—	C-21							
			1.0+4.8	12, 14	—	C-22							
			2.3+4.8	8, 14, 16, 20	—	C-23							
			4.8+8.0	6	—	C-24							
		PCB	0.5	12, 24, 42	—	C-04			5mΩ max.(initial) 10mΩ max.(after durability tests) 3mΩ max.(initial) 6mΩ max.(after durability tests)				
			1.0	13	—	C-25							
			1.0+2.3	23	—	C-25							
			1.0+4.8	14	—	C-26							
			2.3	6	—	C-26							
		NH	0.64 (025)	3, 4, 8, 10, 12, 16, 24, 32, 40	0.22 - 0.75	F-02			10mΩ max.(initial) 30mΩ max.(after durability tests)	1mA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy
			Hybrid	0.64+2.3	20	—			F-07				
		NS-CS	2.3 (090)	2, 3, 4, 6, 8, 10, 12, 16	0.22 - 2.0	G-02			4mΩ max.(initial) 10mΩ max.(after durability tests)	1mA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy
	SL	1.5 (060)	4, 12, 14, 16	0.3 - 2.0	J-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Heat-Resistant Copper Alloy			
		2.3 (090)	2, 4, 6, 12, 14, 16, 18	0.3 - 2.0	J-05				ハウジングターミナル	Housing／PBT, PA6T Terminal／Brass, Heat-Resistant Copper Alloy			
		2.8 (110)	4	0.3 - 3.0	J-08				ハウジングターミナル	Housing／PBT Terminal／Heat-Resistant Copper Alloy			
		Hybrid	1.5+2.8	14	—						J-10		
	DL	0.64 (025)	2	0.22 - 0.75	L-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	ハウジングターミナル	Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy			
		1.0 (040)	4, 8, 12, 16, 20	0.3 - 1.25	L-04	3mΩ max.(initial) 10mΩ max.(after durability tests)							
		2.3 (090)	2, 4, 6, 10, 14, 16	0.3 - 2.0	L-07								

unsealed／sealed 非防水／防水	Connector Series コネクタシリーズ	Terminal Tab Width 端子サイズ	No. of Way Variation 極数バリエーション	Applicable Cable Size 適用電線サイズ	Page 掲載頁	Contact Resistance 接触抵抗（圧着部を含む）	Leak Current リーク電流	Insulation Resistance 絶縁抵抗	Sealable シール性	Material 材質
sealed	TS sealed	0.64 (025)	2, 3, 4, 5, 6, 8, 10, 12, 13, 14, 15, 17, 20, 30	0.13 - 0.5	B-02	8mΩ max.(initial) 16mΩ max.(after durability tests)	50μA max.	100MΩ min.	50kPa min. (initial) 30kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT, PA6T Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
		0.64W (025W)	2, 3, 4, 5, 6, 8	0.3 - 0.5	B-09					
		2.3 (090)	2, 3, 4, 5, 6, 7	0.3 - 2.0	B-13					
		4.8 (187)	1, 2, 3	0.3 - 3.0	B-20	3mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.			
		8.0 (312)	1, 2	0.5 - 8.0	B-24					
		Hybrid	0.64+2.3	10, 13, 26	—	B-28				
			0.64+4.8	4, 24, 34, 40, 46	—	B-28	8mΩ max.(initial) 16mΩ max.(after durability tests)			
			0.64+8.0	18	—	B-29				
			0.64W+8.0	4, 11	—	B-30				
			2.3+4.8	4, 5, 6, 11	—	B-31	3mΩ max.(initial) 10mΩ max.(after durability tests)			
			4.8+8.0	3	—	B-32				
			0.64+2.3+4.8	42, 52	—	B-32				
			0.64W+2.3+4.8	31, 38, 46	—	B-33	8mΩ max.(initial) 16mΩ max.(after durability tests)			
			0.64W+2.3+4.8+8.0	42	—	B-34				
	HV/HVG sealed	1.0 (040)	2, 3, 4, 5, 6, 10	0.3 - 1.25	D-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	98kPa min. (initial) 49kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
	HX sealed	1.0 (040)	1, 2, 3, 5, 6, 7	0.3 - 1.25	E-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	98kPa min. (initial) 49kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
		1.0 (040)	23, 33		E-06					
		Joint Connector	23		E-08					
		Hybrid Joint Connector	0.64+1.0	22	—	E-10				
		1.5 (060)	2, 3, 4, 8, 12	0.13 - 2.0	E-13	3mΩ max.(initial) 6mΩ max.(after durability tests)				
		2.3 (090)	1, 2, 3, 4	0.3 - 2.0	E-17					
		Hybrid	1.0+4.8	13	—	E-21	5mΩ max.(initial) 10mΩ max.(after durability tests)			ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone, NBR
			1.5+4.8	4, 5	—	E-21	3mΩ max.(initial) 6mΩ max.(after durability tests)			
			2.3+4.8	10	—	E-22				
	RS	2.3 (090)	1, 2, 3, 4, 5, 6, 8	0.3 - 2.0	H-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	10μA max.	100MΩ min.	98kPa min. (initial) 98kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
	TL sealed	2.3 (090)	1, 2, 3, 4, 5	0.3 - 2.5	I-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	50μA max.	100MΩ min.	98kPa min. (initial) 98kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
	SL sealed	1.5 (060)	2, 3, 14	0.3 - 2.0	K-02	5mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	98kPa min. (initial) 98kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／Silicone
		2.3 (090)	1, 2, 3, 4, 6	0.3 - 2.0	K-06	3mΩ max.(initial) 10mΩ max.(after durability tests)			49kPa min. (initial) 29kPa min. (after durability tests)	
		8.0 (312)	2	2.0 - 8.0	K-09					
	DL sealed	2.3 (090)	1, 2, 3, 4, 6, 8, 10, 12, 16	0.3 - 2.0	M-02	3mΩ max.(initial) 10mΩ max.(after durability tests)	100μA max.	100MΩ min.	49kPa min. (initial) 29kPa min. (after durability tests)	ハウジング ターミナル ワイヤシール Housing／PBT, PA6T Terminal／Brass, Heat-Resistant Copper Alloy Wire Seal／NBR

Introduction



安全性、快適性、そして機能性と、自動車に求められる性能は、その制御の大半をエレクトロニクスが担っています。この各種カーエレクトロニクス機器を、安全、安心につなぐコンポーネントとして「自動車用コネクタ」には、軽量・コンパクト化、直結高機能化などの性能が求められます。

住友電装は、自動車用ワイヤーハーネス総合メーカーとしての実績と、「トータルワイヤリングシステム」の視点から、ターミナルやコネクタをはじめ ECU 等各種構成部品の研究・開発を積極的に進め、製品の高信頼化に努めています。さらに限られた配線スペースを最大限に活かしたワイヤリングシステムと最適レイアウトを追究し、一層お客様にご満足いただけるサービスをご提供いたしますので、住友電装のコネクタをご用命ください。

Safety, amenity, and functionality, measure the essential performance of an automobile and these predominately depend on in-vehicle electronic controls. A variety of car electronic devices are systematically connected with each other using “automotive connectors”, and the connectors for this purpose are required to be smaller, lighter, and provide direct connection and advanced performance.

At **Sumitomo Wiring Systems**, we are actively researching and developing components, including terminals and housings, with respect to the “total wiring system,” using our experience as an all-round automotive wiring harness manufacturer. This is how we are able to achieve high reliability for our products. In addition, we are searching for the optimum wiring system and layout, using as little space for wiring as is effectively possible. These are part of our activities to provide services that will further satisfy our customers, and we sincerely ask to be favored with your request for connectors made by Sumitomo Wiring Systems.

General Notes

- 製品ご使用の際は、必ず弊社営業担当に「お客様用図面」「仕様書」「取扱説明書」をご請求ください。
- カタログで使用する長さの単位はすべて **mm** で、面積の単位はすべて **mm²** です。
- 本カタログは、シリーズのターミナル、コネクタ (**標準色**) を中心に編集しています。シリーズに含まれないターミナル、コネクタや、一部シリーズ、**カスタム開発部品**、色違い品は掲載しておりませんので、詳細は弊社営業担当にお問い合わせください。
- **巻末**には、**品番索引**ならびに**取扱注意**の記載があります。
- **製品の仕様**は、予告なく変更することがあります。
- 当カタログ製品は注釈がない限り **RoHS/ELV** 対応品になります。
- Please kindly obtain a “**Customer Drawings**” “**Instruction Manuals**” “**Specifications**” from our sales staff before using the product.
- All length and area units in this catalog shall marked **millimeters and square millimeters**.
- **Custom-made** parts are not included in this catalog. This catalog focuses on series of terminals, housings, and does not include terminals and housings not involved in these series. Similarly, some other series are not included. **Standard-color** parts are included in this catalog. Available in various colors to match your needs. Please contact our sales staff for details.
- **In the end of the catalog** there is a **Part Number Index** and **Handling Precautions**.
- **Product specifications** may be subject to change without notice.
- Part numbers in this catalog are **RoHS/ELV** Compliant, unless marked otherwise.

Web Catalog

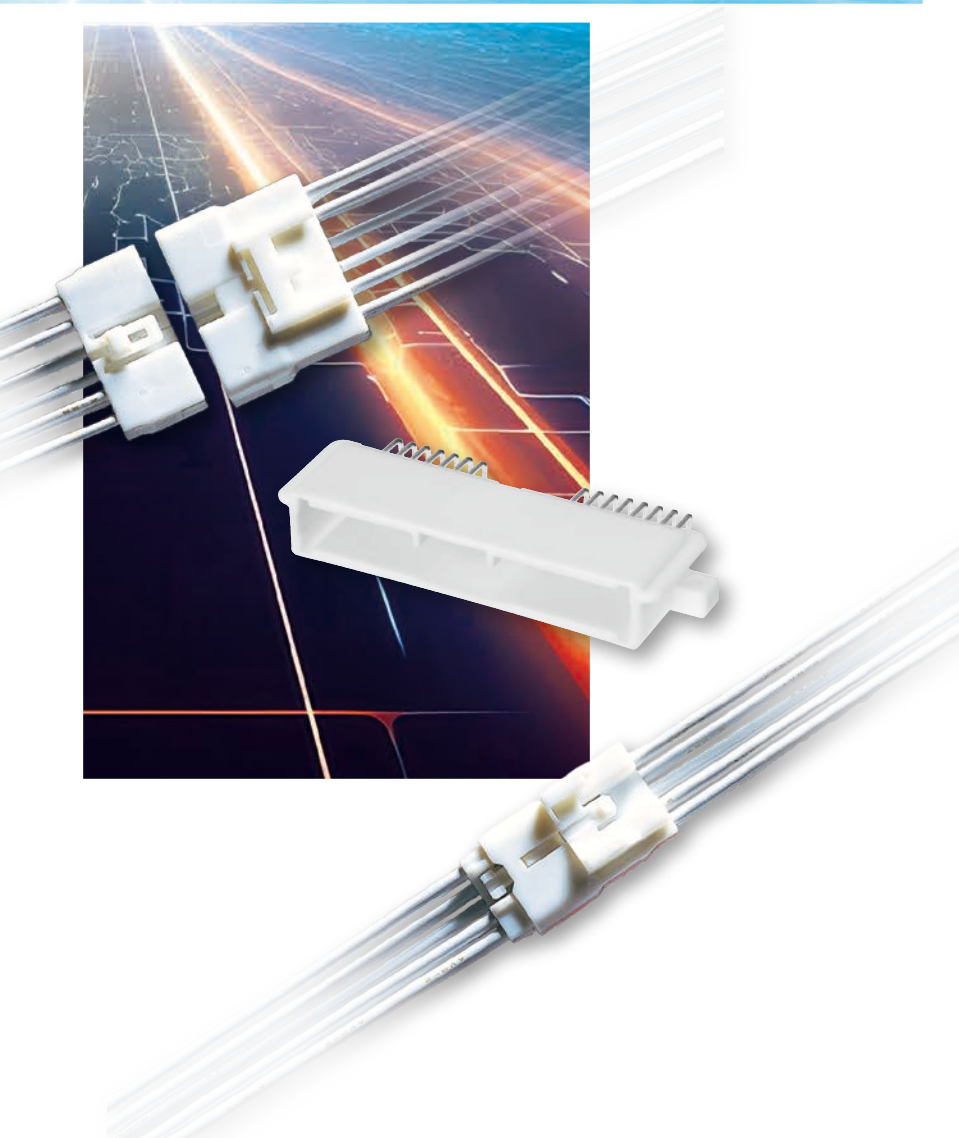
- 本カタログに掲載されていない製品や、コネクタに最適な住友電装の「自動車用電線・コルゲートチューブ」もご用意しています。**WEBカタログ**も参照ください。PCBコネクタの基板取付図も、より詳細にご覧いただけます。

URL: <https://prd.sws.co.jp/>

- **Web Catalog** has connectors which are not on this catalog. You also can see PCB dimensional drawings on the web catalog in detail.

URL: <https://prd.sws.co.jp/>

TS SERIES



Features

The TS connector series has a mechanism of Terminal Position Assurance.

TPA/Retainers are pre-mounted on the connector housing.

The connector mechanism only allows the TPA/Retainer to be set when the terminal is completely inserted.

These connectors can be directly secured to a Stay/Support on the car body.

PCB models are also available for connection to printed circuit boards.

特 長

本シリーズはターミナルが半挿入の状態では、リテーナが装着できない機構になっています。リテーナはあらかじめコネクタに取り付けられています。

また、コネクタは、ボデー側のブラケットに直接固定することができます。

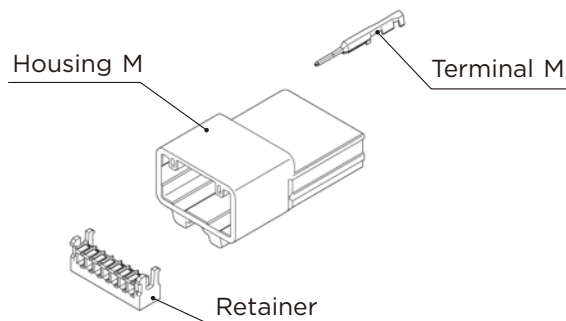
PCBタイプもご用意しています。

TS SERIES for STANDARD

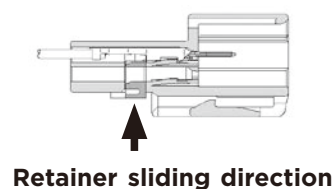
0.64mm (025)

A-02

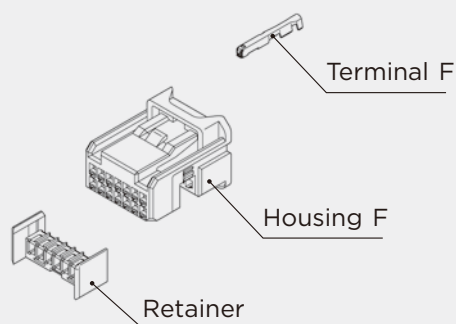
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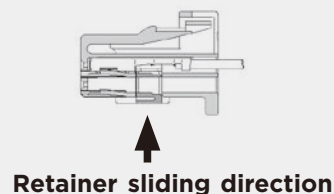
Connector M



Retainer sliding direction



Connector F



Retainer sliding direction

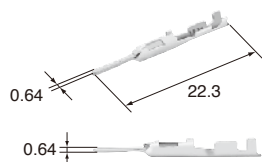
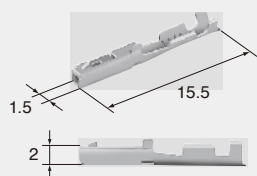
0.64mm (025)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)

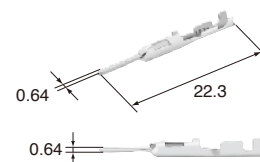
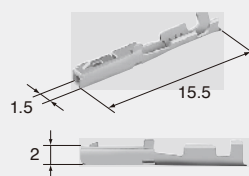
Cable size (mm²)	0.13
Material	Brass
Surface treatment	Tin-plated

**M (8230-4878)****F (8240-0182)**

Cable size (mm²)	0.13
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)

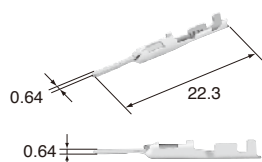
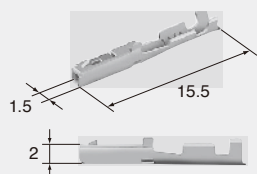
Cable size (mm²)	0.13
Material	Brass
Surface treatment	Gold-plated

**M (8230-5136)****F (8240-0338)**

Cable size (mm²)	0.13
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(M)

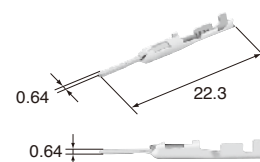
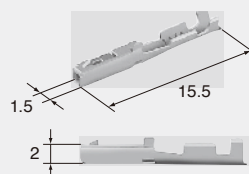
Cable size (mm²)	0.22~0.35
Material	Brass
Surface treatment	Tin-plated

**M (8100-3622)****F (8100-3624)**

Cable size (mm²)	0.22~0.35
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)

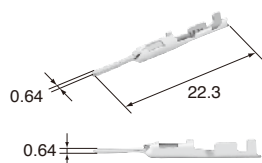
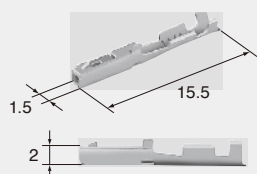
Cable size (mm²)	0.22~0.35
Material	Brass
Surface treatment	Gold-plated

**M (8100-3626)****F (8100-3628)**

Cable size (mm²)	0.22~0.35
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(L)

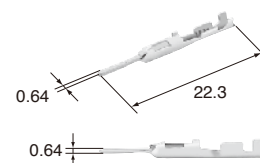
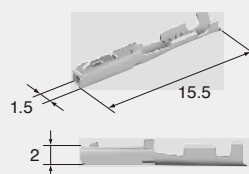
Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Tin-plated

**M (8100-3623)****F (8100-3625)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)

Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Gold-plated

**M (8100-3627)****F (8100-3629)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

0.64mm (025)

A-04

Housing (UNIT : mm)

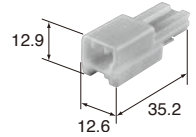
Ref: Terminal part No. A-02

Material PBT

2way

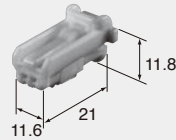
Color Natural

Note: Bracket size 9mm



M (6098-6653)

F (6098-6662)

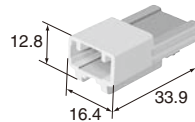


Color Natural

5way

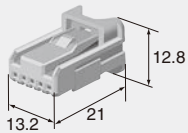
Color Natural

Note: Bracket size 9mm



M (6098-3802)

F (6098-3810)

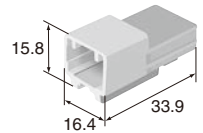


Color Natural

10way

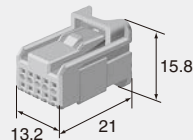
Color Natural

Note: Bracket size 9mm



M (6098-3869)

F (6098-3909)

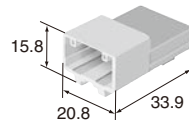


Color Natural

14way

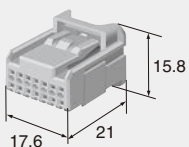
Color Natural

Note: Bracket size 9mm



M (6098-3877)

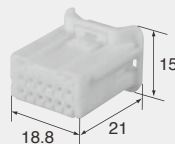
F (6098-3917)



Color Natural

14way

F (6098-7241)



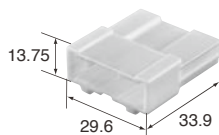
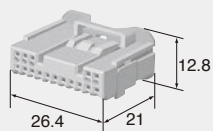
PCB Connector part No. 6098-7229 (A-26)

Color Natural

16way

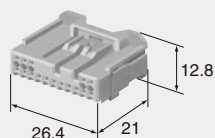
Color Natural

Note: Bracket size 17mm

**M (6098-7336)****F (6098-4008)**

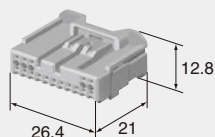
PCB Connector part No. 6098-6790 (A-26)
6098-6793 (A-26)

Color Natural

16way**F (6098-6688)**

PCB Connector part No. 6098-6848 (A-27)

Color Natural

16way**F (6098-6694)**

PCB Connector part No. 6098-6848 (A-27)

Color Natural

19way**F (6098-7231)**

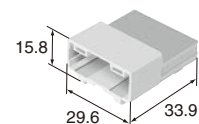
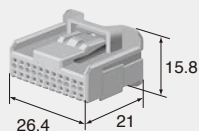
PCB Connector part No. 6098-7229 (A-26)

Color Natural

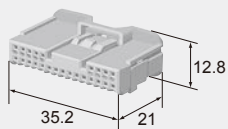
22way

Color Natural

Note: Bracket size 17mm

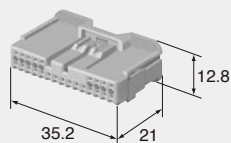
**M (6098-3885)****F (6098-3925)**

Color Natural

24way**F (6098-4010)**

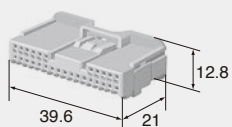
PCB Connector part No. 6098-6803 (A-27)

Color Natural

24way**F (6098-6682)**

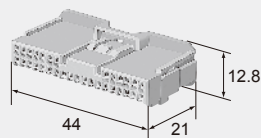
PCB Connector part No. 6098-6848 (A-27)

Color Natural

28way**F (6098-4756)**

PCB Connector part No. 6098-6805 (A-27)
6098-7102 (A-28)
6098-6810 (A-28)

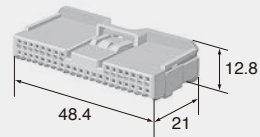
Color Natural

32way**F (6098-4013)**

Color Natural

36way

F (6098-4740)

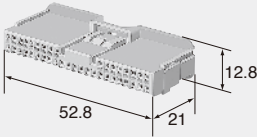


PCB Connector part No. 6098-6796 (A-27)
6098-6798 (A-27)
6098-6803 (A-27)

Color Natural

40way

F (6098-4015)

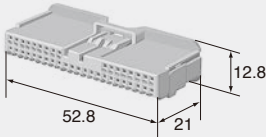


PCB Connector part No. 6098-6810 (A-28)

Color Natural

40way

F (6098-4831)



PCB Connector part No. 6098-6805 (A-27)
6098-7102 (A-28)

Color Natural

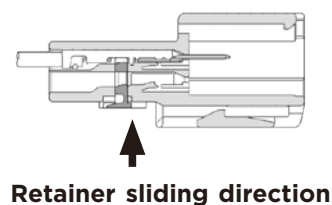
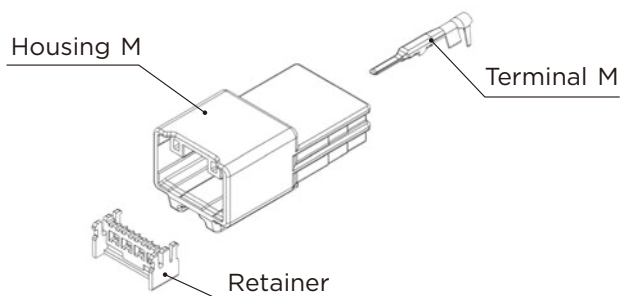
TS SERIES for STANDARD

1.5mm (060)

A-07

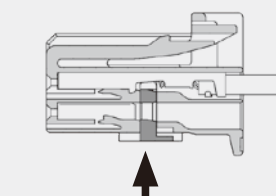
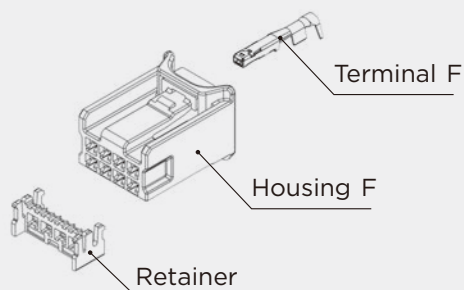
TS SERIES

Structure / Detecting structure for incomplete terminal insertion.



Retainer sliding direction

Connector M



Retainer sliding direction

Connector F

1.5mm (060)

A-08

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面处理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(3S)

F (8240-0339)



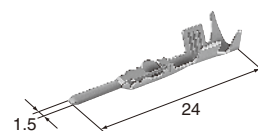
Cable size (mm ²)	0.13
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)

Cable size (mm²) 0.3~0.5

Material Brass

Surface treatment Tin-plated



(SS)

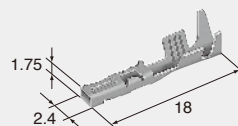
F (8240-0279)



Cable size (mm ²)	0.22~0.35
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

M (8230-4925)

F (8240-0215)



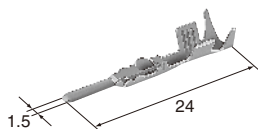
Cable size (mm ²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)

Cable size (mm²) 0.75~1.25

Material Brass

Surface treatment Tin-plated

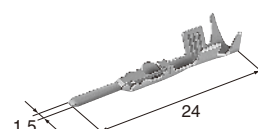


(L)

Cable size (mm²) 2.0

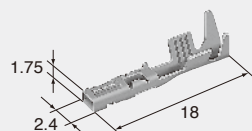
Material Heat-resistant copper alloy

Surface treatment Tin-plated



M (8230-4924)

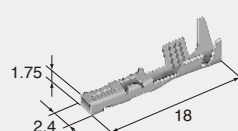
F (8240-0213)



Cable size (mm ²)	0.75~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

M (8230-4923)

F (8240-0214)



Cable size (mm ²)	2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

1.5mm (060)

A-09

TS SERIES

Housing (UNIT : mm)

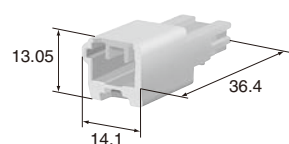
Ref: Terminal part No. A-08

Material PBT

2way

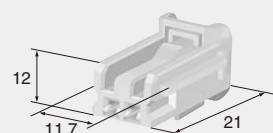
Color Natural

Note: Bracket size 9mm



M (6098-6050)

F (6098-6053)

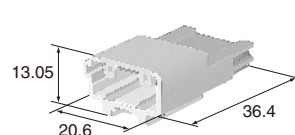


Color Natural

4way

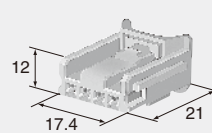
Color Natural

Note: Bracket size 9mm



M (6098-5668)

F (6098-5677)

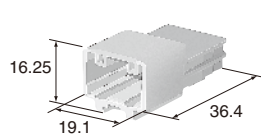


Color Natural

8way

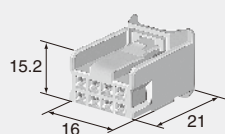
Color Natural

Note: Bracket size 9mm



M (6098-5686)

F (6098-5695)

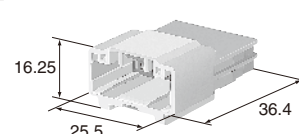


Color Natural

12way

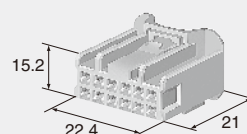
Color Natural

Note: Bracket size 17mm



M (6098-5704)

F (6098-5713)



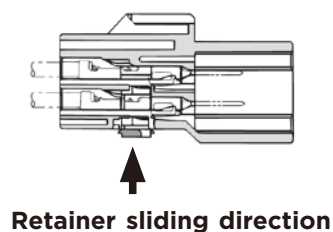
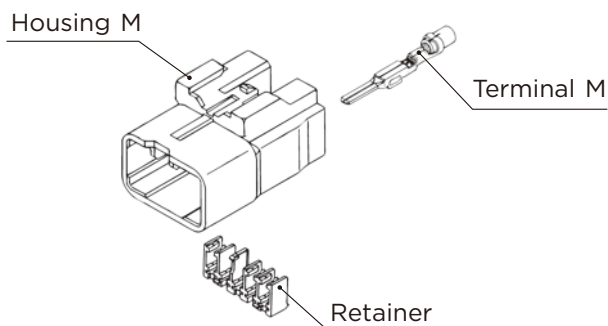
Color Natural

TS SERIES for STANDARD

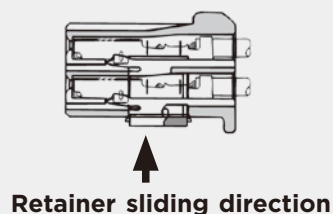
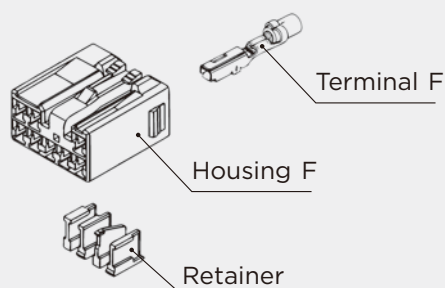
2.3mm (090)

A-10

Structure / Detecting structure for incomplete terminal insertion.



Connector M



Connector F

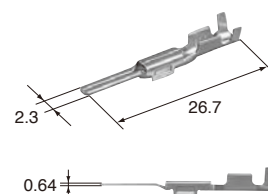
2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

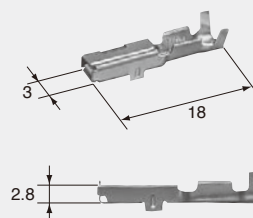
Terminal (UNIT : mm)

(SS)

Cable size (mm ²)	0.22~0.35
Material	Brass
Surface treatment	Tin-plated

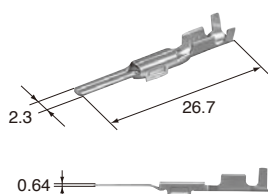
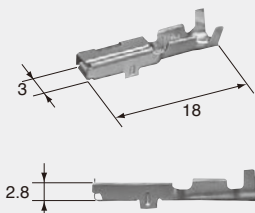
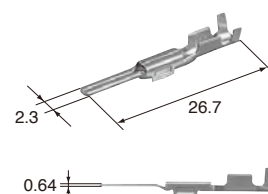
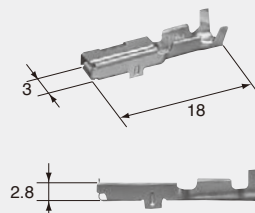
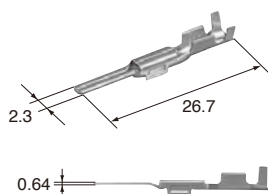
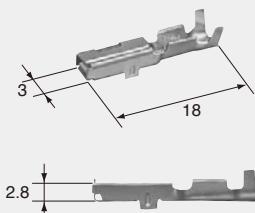
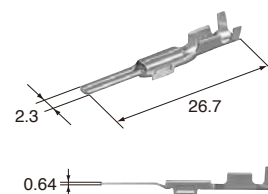
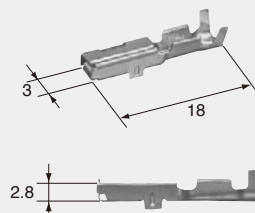
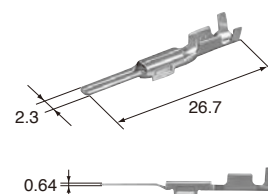
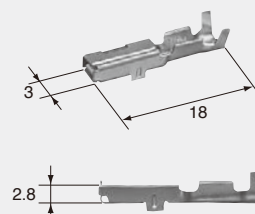


M (8230-4742)



F (8240-0029)

Cable size (mm ²)	0.22~0.35
Material	Brass
Surface treatment	Tin-plated

(S)**Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Tin-plated**M (8230-4492)****F (8240-4882)****Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Tin-plated**(S)****Au****Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Gold-plated**M (8100-1341)****F (8100-1346)****Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Gold-plated**(M)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**M (8230-4502)****F (8240-4892)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**(M)****Au****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Gold-plated**M (8100-1342)****F (8100-1347)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Gold-plated**(L)****Cable size (mm²)** 2.0**Material** Brass**Surface treatment** Tin-plated**M (8230-4512)****F (8240-4942)****Cable size (mm²)** 2.0**Material** Heat-resistant copper alloy**Surface treatment** Tin-plated

2.3mm (090)

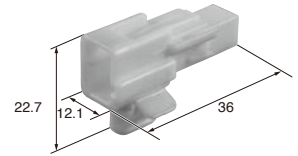
A-12

Housing (UNIT : mm)

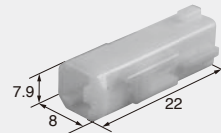
Ref: Terminal part No.	A-10
Material	PBT/PA6T

1way

Material	PBT
Color	Natural
Note:with clip for oval hole	



M (6240-1155)

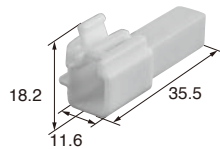


Material	PBT
Color	Natural

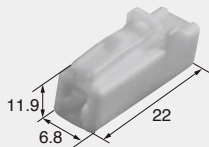
F (6240-5214)

1way

Material	PBT
Color	Natural
Note:with clip for oval hole	



M (6520-0616)

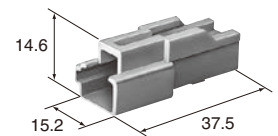


Material	PBT
Color	Natural

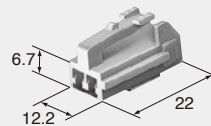
F (6520-0564)

2way

Material	PA6T
Color	Natural
Note:Bracket size 9mm	



M (6520-0549)

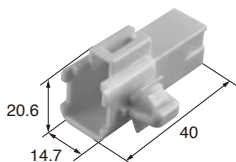


Material	PA6T
Color	Natural

F (6520-0550)

4way

M (1300-4455)



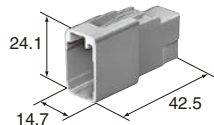
Material	PA6T
Color	Natural
Note:with clip for oval hole	

6way

Material PBT

Color Natural

Note:with clip for round hole

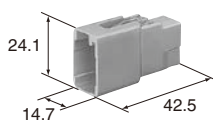


M (6240-1107)

Material PBT

Color Natural

Note:with clip for oval hole

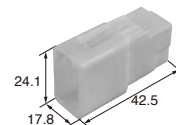


M (6249-1243)

Material PBT

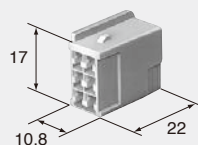
Color Natural

Note:Bracket size 9mm



M (6249-1225)

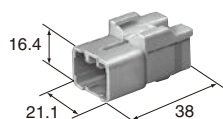
F (6240-5118)



Material PBT
Color Natural

6way

M (6240-1120)



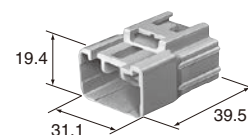
Material PBT
Color Natural
Note:Bracket size 17mm

9way

Material PBT

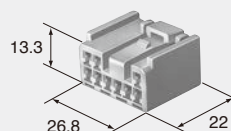
Color Natural

Note:Bracket size 17mm



M (6249-1229)

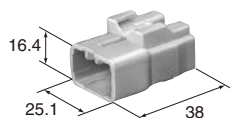
F (6248-5270)



Material PBT
Color Natural

8way

M (6240-1077)



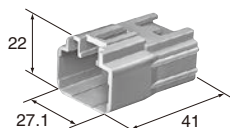
Material PBT
Color Natural
Note:Bracket size 17mm

10way

Material PBT

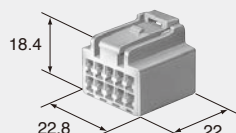
Color Natural

Note:Bracket size 17mm



M (6249-1235)

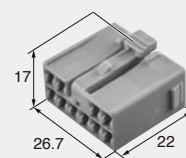
F (6248-5276)



Material PBT
Color Natural

10way

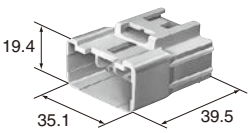
F (1300-3540)



Material PBT
Color Natural

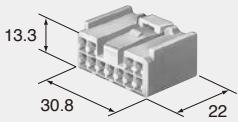
11way

Material	PBT
Color	Natural
Note:Bracket size 17mm	



M (6249-1234)

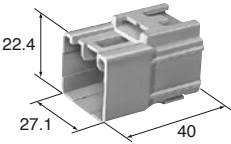
F (6248-5275)



Material	PBT
Color	Natural

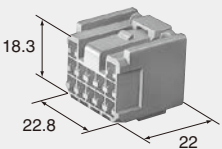
12way

Material	PBT
Color	Natural
Note:Bracket size 17mm	



M (6520-1009)

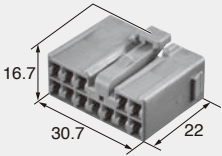
F (6520-1004)



Material	PBT
Color	Natural

12way

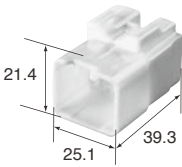
F (6520-0355)



Material	PBT
Color	Natural

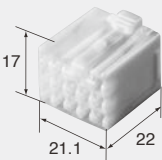
13way

Material	PBT
Color	Natural
Note:Bracket size 17mm	



M (6240-1122)

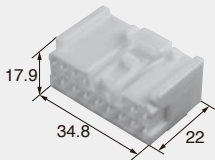
F (6240-5175)



Material	PBT
Color	Natural

13way

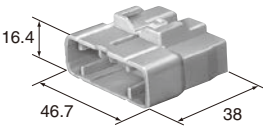
F (1300-4682)



Material	PBT
Color	Natural

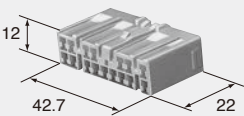
16way

Material	PBT
Color	Natural
Note:Bracket size 17mm	



M (6240-1158)

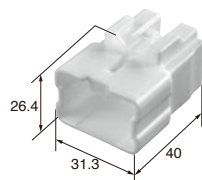
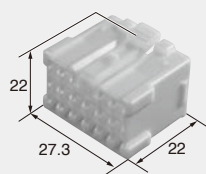
F (6240-5088)



Material	PBT
Color	Natural

16way

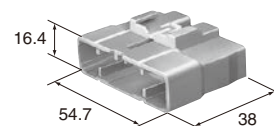
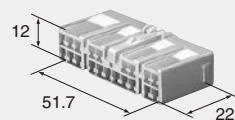
Material	PBT
Color	Natural
Note: Bracket size 17mm	

**M (6240-1031)**

Material	PBT
Color	Natural

F (6240-5033)**20way**

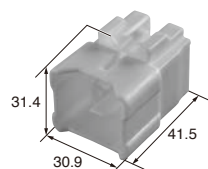
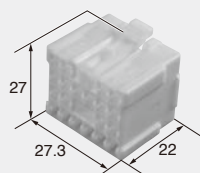
Material	PBT
Color	Natural
Note: Bracket size 23mm	

**M (6240-1033)**

Material	PBT
Color	Natural

F (6240-5035)**20way**

Material	PBT
Color	Natural
Note: Bracket size 17mm	

**M (6240-1035)**

Material	PBT
Color	Natural

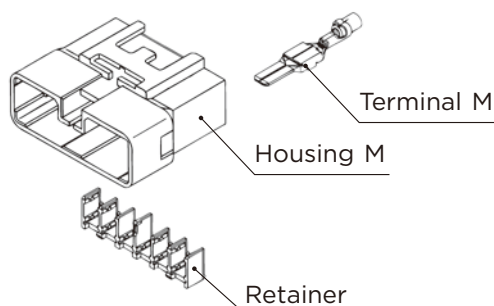
F (6240-5134)

TS SERIES for STANDARD

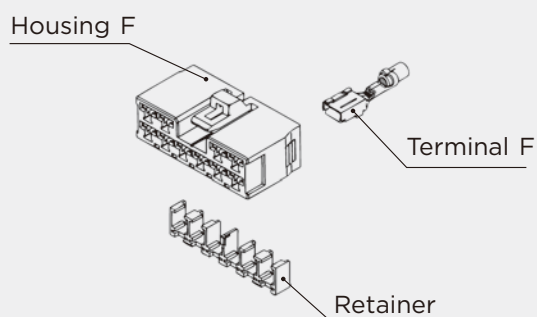
4.8mm (187)

A-16

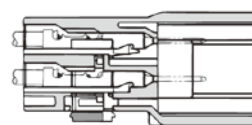
Structure / Detecting structure for incomplete terminal insertion.



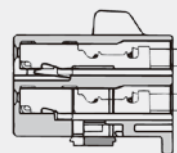
Connector M



Connector F



Retainer sliding direction

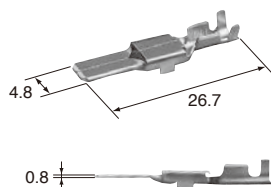
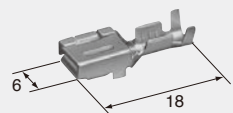
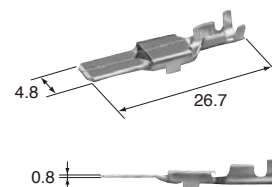
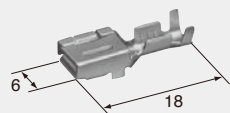
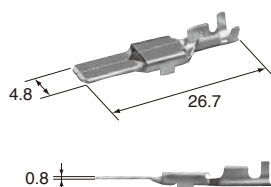
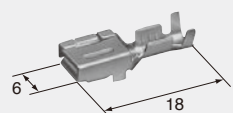
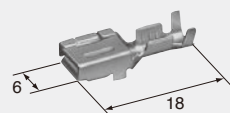


Retainer sliding direction

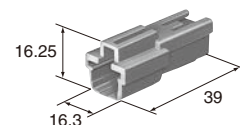
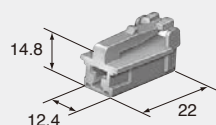
4.8mm (187)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)**Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Tin-plated**M (8230-4522)****F (8240-4912)****Cable size (mm²)** 0.3~0.5**Material** Brass**Surface treatment** Tin-plated**(M)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**M (8230-4532)****F (8240-4922)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**(L)****Cable size (mm²)** 2.0~3.0**Material** Brass**Surface treatment** Tin-plated**M (8230-4542)****F (8240-4932)****Cable size (mm²)** 2.0~3.0**Material** Brass**Surface treatment** Tin-plated**(L)****F (8100-1555)****Cable size (mm²)** 2.0~3.0**Material** Heat-resistant copper alloy**Surface treatment** Tin-plated**4.8mm (187)****Housing** (UNIT : mm)**Ref: Terminal part No.** A-16**Material** PBT**1way****Color** Natural

Note: Bracket size 9mm

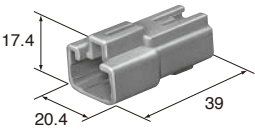
**M (6098-0822)****F (6098-0824)****Color** Natural

2way

Color

Natural

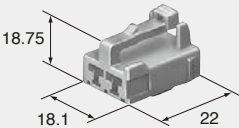
Note:Bracket size 9mm



17.4
20.4
39

M (6098-0323)

F (6098-0325)



18.75
18.1
22

Color

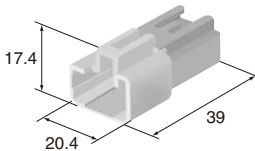
Natural

2way

Color

Natural

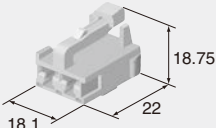
Note:Bracket size 9mm



17.4
20.4
39

M (6098-0469)

F (6098-0471)



18.75
18.1
22

Color

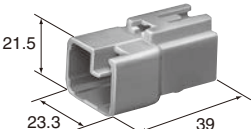
Natural

3way

Color

Natural

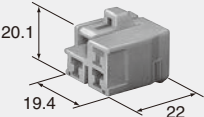
Note:Bracket size 9mm



21.5
23.3
39

M (6098-0149)

F (6098-0151)



20.1
19.4
22

Color

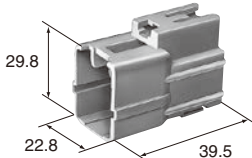
Natural

4way

Color

Natural

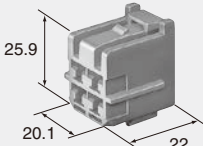
Note:Bracket size 9mm



29.8
22.8
39.5

M (6098-1851)

F (6098-1489)



25.9
20.1
22

Color

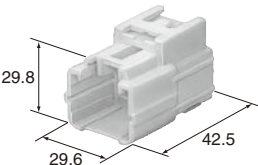
Natural

6way

Color

Natural

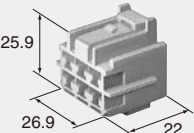
Note:Bracket size 17mm



29.8
29.6
42.5

M (6098-2211)

F (6098-1716)



25.9
26.9
22

Color

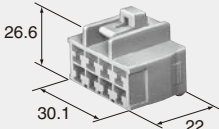
Natural

8way

Color

Natural

F (6098-0518)



26.6
30.1
22

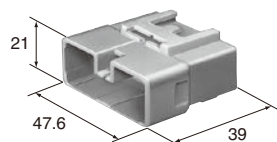
Color

Natural

10way

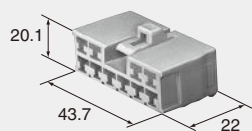
Color Natural

Note: Bracket size 23mm



M (6098-0154)

F (6098-0156)



Color

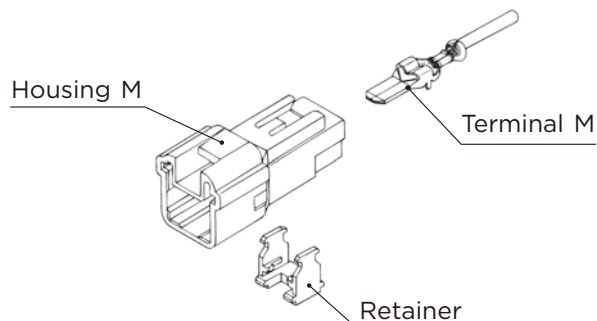
Natural

TS SERIES for STANDARD

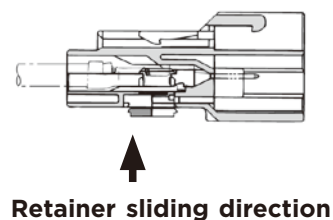
8.0mm (312)

A-20

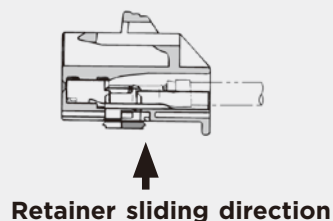
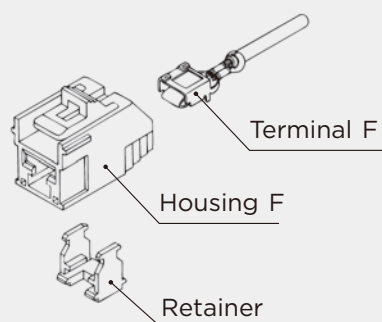
Structure / Detecting structure for incomplete terminal insertion.



Connector M



Connector F



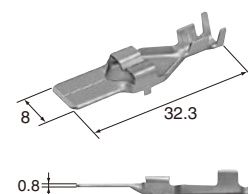
8.0mm (312)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

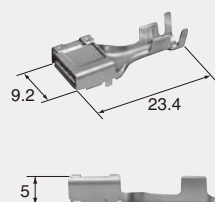
(S)

Cable size (mm ²)	0.5~1.25
Material	Brass
Surface treatment	Tin-plated

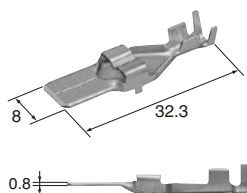
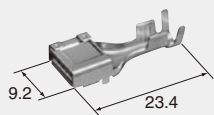
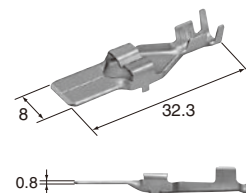
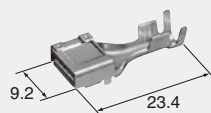


M (8100-0520)

F (8100-0707)



Cable size (mm ²)	0.5~1.25
Material	Brass
Surface treatment	Tin-plated

(M)**Cable size (mm²)** 2.0~3.0**Material** Brass**Surface treatment** Tin-plated**M (8100-0521)****F (8100-2493)****Cable size (mm²)** 2.0~3.0**Material** Heat-resistant copper alloy**Surface treatment** Tin-plated**(L)****Cable size (mm²)** 5.0~8.0**Material** Brass**Surface treatment** Tin-plated**M (8100-0522)****F (8100-1553)****Cable size (mm²)** 5.0~8.0**Material** Heat-resistant copper alloy**Surface treatment** Tin-plated**8.0mm (312)**

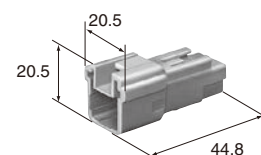
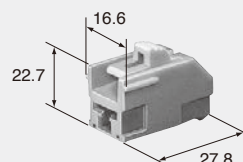
Housing (UNIT : mm)

Ref: Terminal part No. A-20**Material** PBT

1way

Color Natural

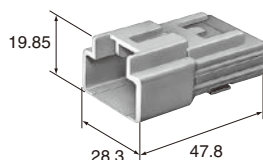
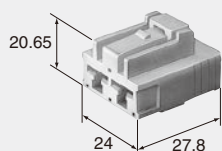
Note: Bracket size 9mm

**M (6240-1093)****F (6098-0441)****Color** Natural

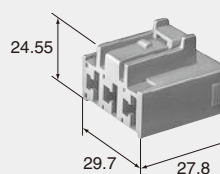
2way

Color Natural

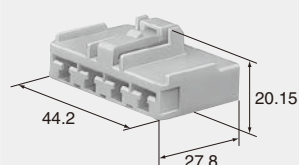
Note: Bracket size 17mm

**M (6098-1278)****F (6098-1104)****Color** Natural

3way

F (6520-1466)**Color** Natural

4way

F (6098-2137)**Color** Natural

TS SERIES for HYBRID

0.64mm, 1.5mm
(025, 060)

Housing (UNIT : mm)

Ref: Terminal part No.	[0.64mm]	A-02
	[1.5mm]	A-08

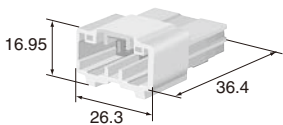
Material	PBT
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No. of way/ () corresponds to 0.64mm, 1.5mm, in order from left to right.
極数 / () 内表示 : 左から0.64mm 極数、1.5mm 極数

12way (4+8)

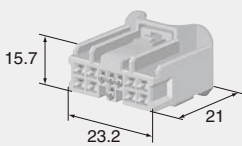
Color	Natural
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Note: Bracket size 17mm



M (6098-6055)

F (6098-6083)

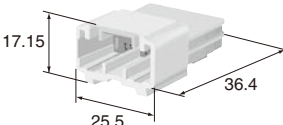


Color	Natural
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12way (6+6)

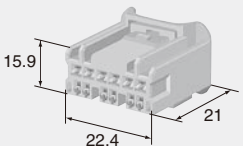
Color	Natural
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Note: Bracket size 17mm



M (6098-6104)

F (6098-6111)

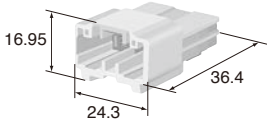


Color	Natural
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12way (8+4)

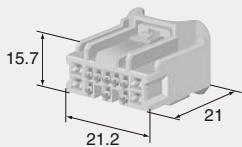
Color	Natural
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Note: Bracket size 17mm



M (6098-6090)

F (6098-6097)

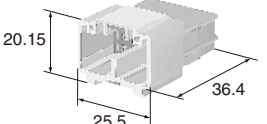


Color	Natural
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18way (8+10)

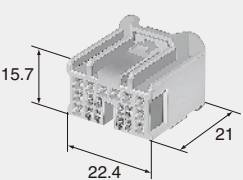
Color	Natural
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Note: Bracket size 17mm



M (6098-5650)

F (6098-5659)

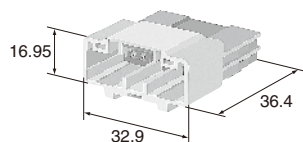
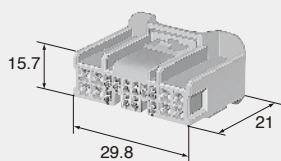


Color	Natural
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18way (10+8)

Color Natural

Note: Bracket size 17mm

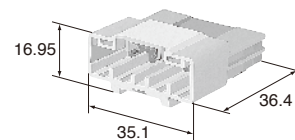
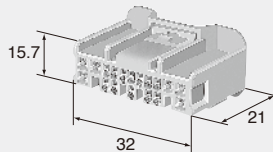
**M (6098-5594)****F (6098-5604)**

Color Natural

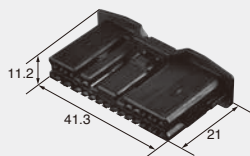
18way (12+6)

Color Natural

Note: Bracket size 17mm

**M (6098-5631)****F (6098-5641)**

Color Natural

20way (14+6)**F (6098-6876)**

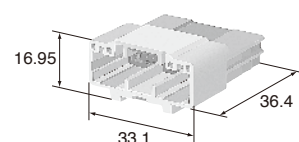
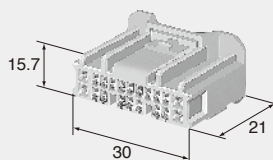
PCB Connector part No. 6098-6869 (A-28)

Color Black

20way (16+4)

Color Natural

Note: Bracket size 17mm

**M (6098-5613)****F (6098-5622)**

Color Natural

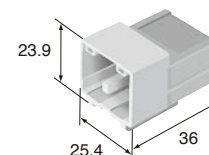
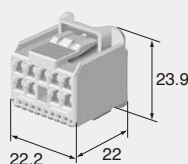
**0.64mm, 2.3mm
(025, 090)****Housing (UNIT : mm)**Ref: Terminal part No. [0.64mm] A-02
[2.3mm] A-10

Material PBT

No. of way/ () corresponds to 0.64mm, 2.3mm, in order from left to right.
極数/ () 内表示: 左から0.64mm 極数、2.3mm 極数**17way (8+9)**

Color Natural

Note: Bracket size 17mm

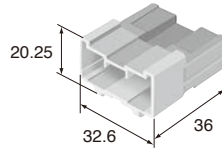
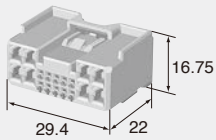
**M (6098-3893)****F (6098-3933)**

Color Natural

18way (10+8)

Color Natural

Note: Bracket size 17mm

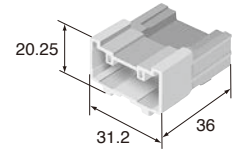
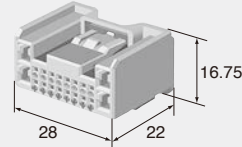
**M (6098-3901)****F (6098-3941)**

Color Natural

20way (16+4)

Color Natural

Note: Bracket size 17mm

**M (6098-3818)****F (6098-3826)**

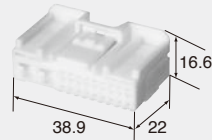
Color Natural

**0.64mm, 4.8mm
(025, 187)****Housing (UNIT : mm)**

Ref: Terminal part No. [0.64mm] A-02
[4.8mm] A-16

Material PBT

No. of way/ () corresponds to 0.64mm, 4.8mm, in order from left to right.
極数/ () 内表示: 左から0.64mm 極数、4.8mm 極数

20way (18+2)**F (6098-5903)**

Color Natural

**2.3mm, 4.8mm
(090, 187)****Housing (UNIT : mm)**

Ref: Terminal part No. [2.3mm] A-10
[4.8mm] A-16

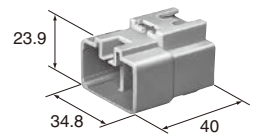
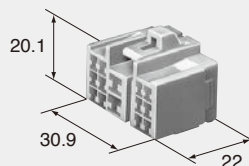
Material PBT

No. of way/ () corresponds to 2.3mm, 4.8mm, in order from left to right.
極数/ () 内表示: 左から2.3mm 極数、4.8mm 極数

14way (12+2)

Color Natural

Note: Bracket size 17mm

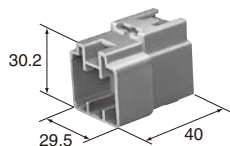
**M (6241-0261)****F (6245-0281)**

Color Natural

15way (12+3)

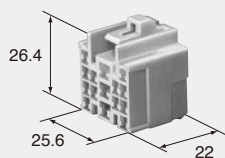
Color Natural

Note: Bracket size 17mm



M (6241-0241)

F (6245-0261)

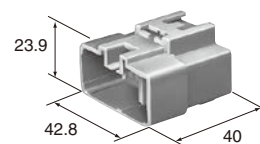


Color Natural

20way (18+2)

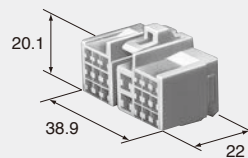
Color Natural

Note: Bracket size 17mm



M (6241-0281)

F (6245-0301)

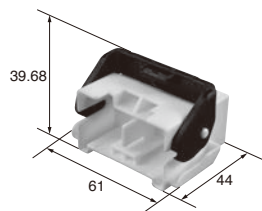


Color Natural

26way (22+4)

Swing Lever

M (6249-1254)



Color Natural

Note: Bracket size 23mm

A-25

TS SERIES

TS SERIES
for PCB

0.64mm (025)

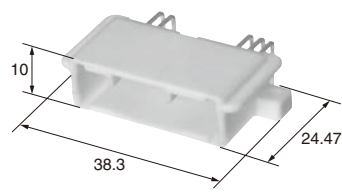
Housing (UNIT : mm)

Material	PBT G30/SPS G30
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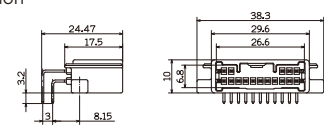
16way

M (6098-6790)

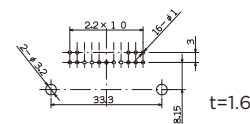
Connector F part No.	6098-4008 (A-05)
Material	PBT G30
Color	Natural



●Detailed dimension
寸法詳細



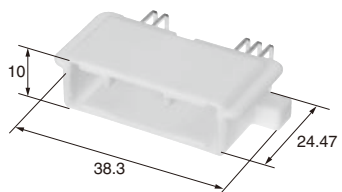
●Recommended dimension of Circuit board
基板推奨詳細



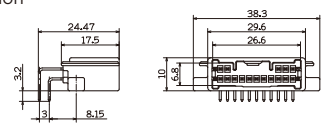
16way

M (6098-6793)

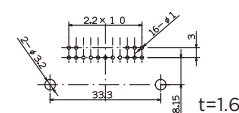
Connector F part No.	6098-4008 (A-05)
Material	SPS G30
Color	Natural



●Detailed dimension
寸法詳細



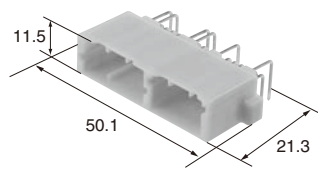
●Recommended dimension of Circuit board
基板推奨詳細



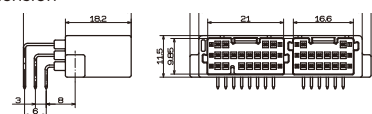
33way

M (6098-7229)

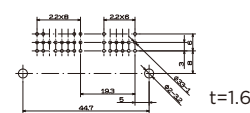
Connector F part No.	6098-7231 (A-05) 6098-7241 (A-04)
Material	SPS G30
Color	Natural



●Detailed dimension
寸法詳細



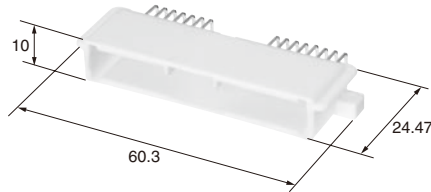
●Recommended dimension of Circuit board
基板推奨詳細



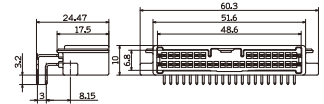
36way

M (6098-6796)

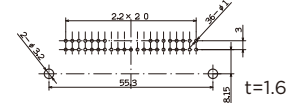
Connector F part No.	6098-4740 (A-06)
Material	PBT G30
Color	Natural



●Detailed dimension 寸法詳細



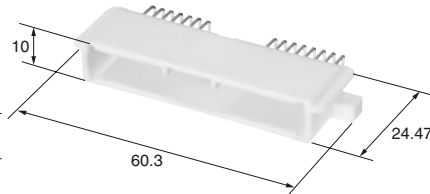
●Recommended dimension of Circuit board 基板推奨詳細



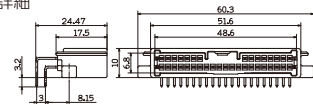
36way

M (6098-6798)

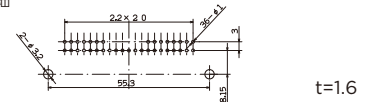
Connector F part No.	6098-4740 (A-06)
Material	SPS G30
Color	Natural



●Detailed dimension 寸法詳細



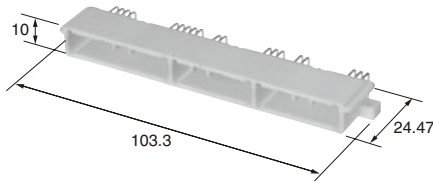
●Recommended dimension of Circuit board 基板推奨詳細



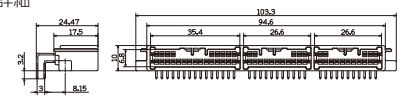
56way (16+16+24)

M (6098-6848)

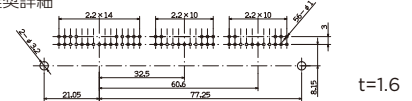
Connector F part No.	6098-6688 (A-05) 6098-6694 (A-05) 6098-6682 (A-05)
Material	SPS G30
Color	Natural



●Detailed dimension 寸法詳細



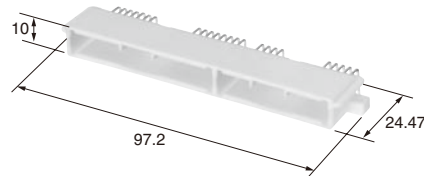
●Recommended dimension of Circuit board 基板推奨詳細



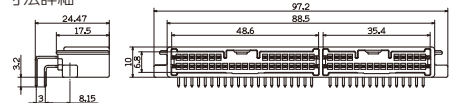
60way (36+24)

M (6098-6803)

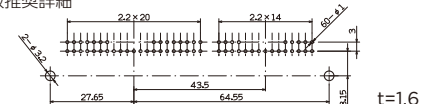
Connector F part No.	6098-4010 (A-05) 6098-4740 (A-06)
Material	SPS G30
Color	Natural



●Detailed dimension 寸法詳細



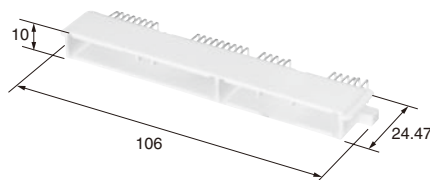
●Recommended dimension of Circuit board 基板推奨詳細



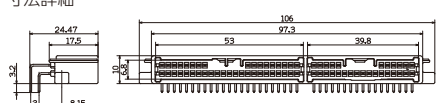
68way (40+28)

M (6098-6805)

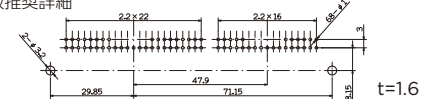
Connector F part No.	6098-4756 (A-05) 6098-4831 (A-06)
Material	PBT G30
Color	Natural



●Detailed dimension 寸法詳細



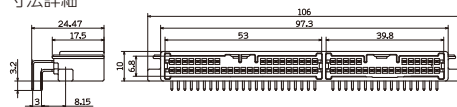
●Recommended dimension of Circuit board 基板推奨詳細



M (6098-7102)

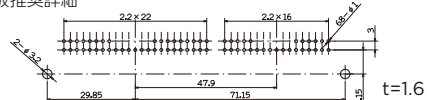
- Detailed dimension

寸法詳細



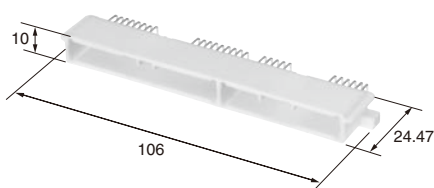
●Recommended dimension of Circuit board

基板推獎詳細



t=1.6

Connector F part No.	6098-4756 (A-05) 6098-4831 (A-06)
Material	SPS G30
Color	Natural

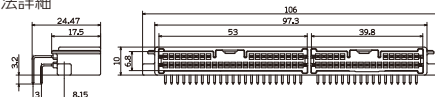


68way (40+28)

M (6098-6810)

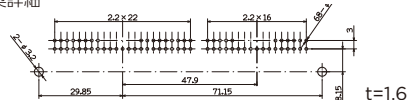
●Detailed dimension

寸法詳細



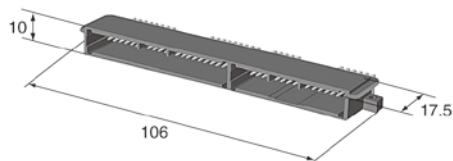
● Recommended dimension of Circuit board

基板推獎詳細



t=1.6

Connector F part No.	6098-4756 (A-05) 6098-4015 (A-06)
Material	PBT G30
Color	Blue



0.64mm, 1.5mm (025, 060)

Housing (UNIT : mm)

(UNIT : mm)

Material	LCP
-----------------	-----

No. of way/ () corresponds to 0.64mm, 1.5mm, in order from left to right.
極数 / () 内表示: 左から0.64mm 極数、1.5mm 極数

極数／（ ）内表示：左から0.64mm 極数、1.5mm 極数

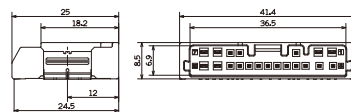
20way (14+6)

M (6098-6869)

SMT type

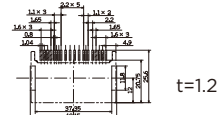
- Detailed dimension

寸法詳細



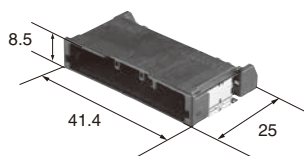
●Recommended dimension of Circuit board

基板推獎詳細

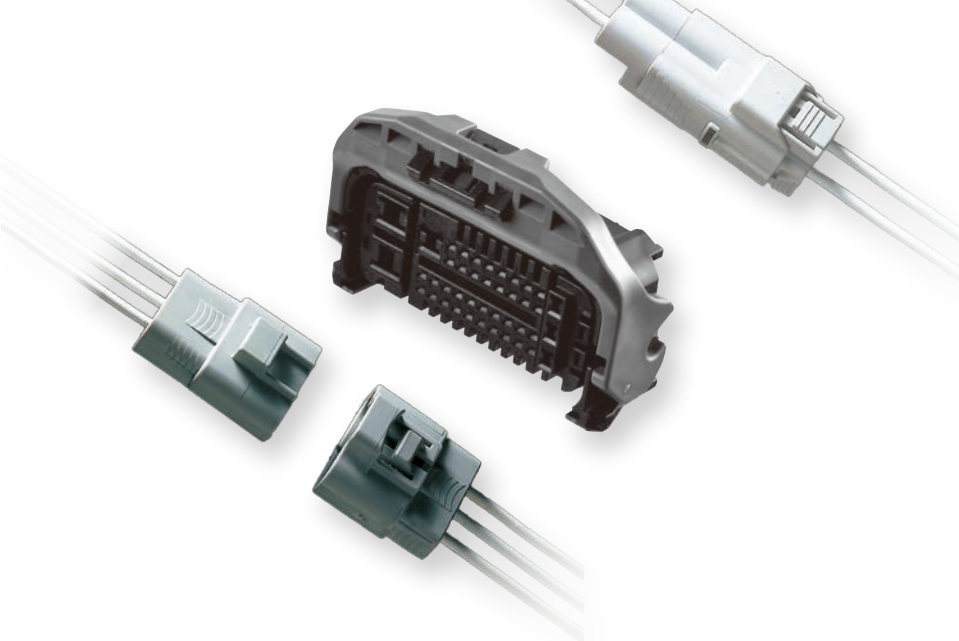


t=1.2

Connector F part No.	6098-6876 (A-23)
Material	LCP
Color	Black



TS SEALED SERIES



Features

The TS sealed connector series has a mechanism of Terminal Position Assurance.

TPA/Retainers are pre-mounted on the connector housing.

These connectors can be directly secured to a Stay/Support on the car body.

特 長

TS 防水シリーズは挿入不足のターミナルを検知する機構を備えたシリーズです。リテーナはあらかじめコネクタに取り付けられています。

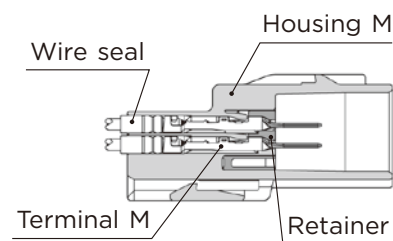
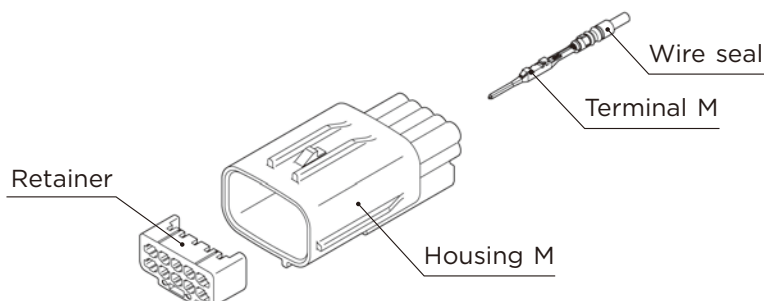
また、コネクタは、ボデー側のブラケットに直接固定することができます。PCBタイプもご用意しています。

TS SEALED SERIES for STANDARD

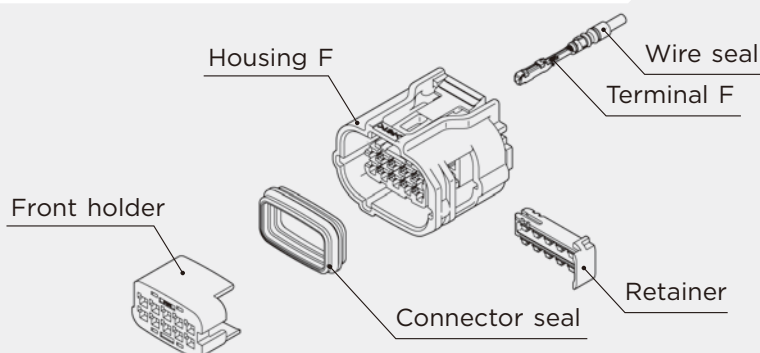
0.64mm (025)

Structure / Detecting structure for incomplete terminal insertion.

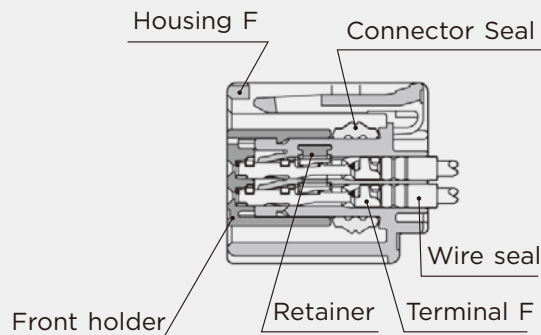
B-02



Connector M



Connector F

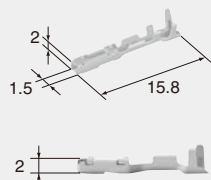


0.64mm (025)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

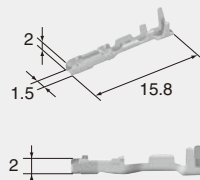
Terminal (UNIT : mm)

(S)

F (8240-0336)

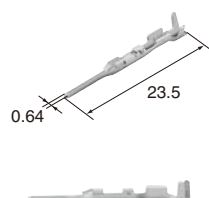
Cable size (mm²)	0.13
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)

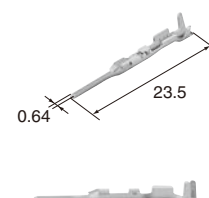
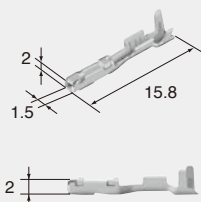
Au**F (8240-0337)**

Cable size (mm²)	0.13
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

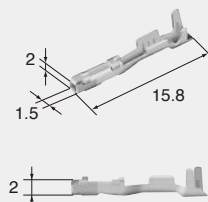
(M)

Cable size (mm²) 0.22~0.5**Material** Brass**Surface treatment** Tin-plated

(M)

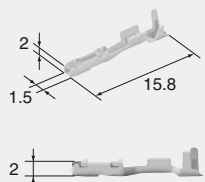
Au**Cable size (mm²)** 0.22~0.5**Material** Brass**Surface treatment** Gold-plated**M (8100-3617)****F (8100-3455)**

Cable size (mm²)	0.22~0.35
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

M (8100-3708)**F (8100-3456)**

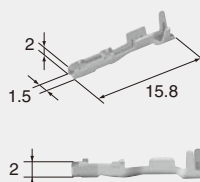
Cable size (mm²)	0.22~0.35
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(L)

F (8240-0287)

Cable size (mm²)	0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)

Au**F (8240-0288)**

Cable size (mm²)	0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

0.64mm (025)

B-04

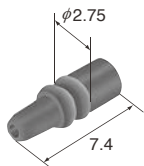
Wire seals (UNIT : mm)

- Male / Female Shared
- M、F 共用です。

(SS)

(7165-1043)

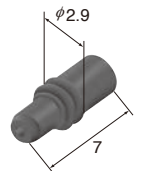
Cable size (mm ²)	(CHFUS/0.22)
Cable overall diameter (mm)	0.95~1.05
Material	Silicone
Color	Green



(3S)

(7165-1423)

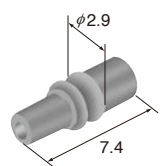
Cable size (mm ²)	(CHFUS/0.13)
Cable overall diameter (mm)	0.85~0.95
Material	Silicone
Color	Light Brown



(S)

(7165-1312)

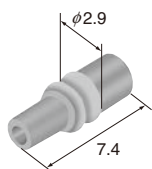
Cable size (mm ²)	(CHFUS/0.35~0.5)
Cable overall diameter (mm)	1.1~1.4
Material	Silicone
Color	Violet



(M)

(7165-1198)

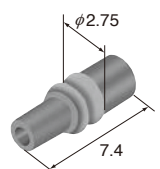
Cable size (mm ²)	(AVSS/0.3) (AVSSH/0.3) (AESSX/0.3)
Cable overall diameter (mm)	1.4~1.5
Material	Silicone
Color	Dark Yellow



(M)

(7165-0796)

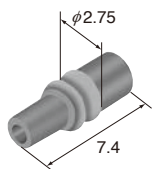
Cable size (mm ²)	(AVSS/0.3) (AVSSH/0.3) (AVSSX/0.3)
Cable overall diameter (mm)	1.4~1.5
Material	Silicone
Color	Reddish Brown



(M)

(7165-0891)

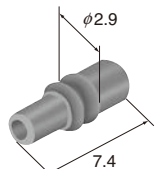
Cable size (mm ²)	(AESSX/0.3)
Cable overall diameter (mm)	1.4~1.5
Material	Silicone
Color	Dark Brown



(L)

(7165-1199)

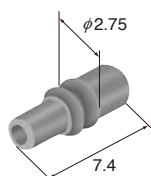
Cable size (mm ²)	(AVSS/0.5) (AVSSH/0.5) (AVSSX/0.5) (AESSX/0.5)
Cable overall diameter (mm)	1.6~1.7
Material	Silicone
Color	Red Violet



(L)

(7165-0815)

Cable size (mm ²)	(AVSS/0.5) (AVSSH/0.5) (AVSSX/0.5)
Cable overall diameter (mm)	1.6~1.7
Material	Silicone
Color	Dark Gray



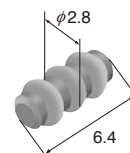
0.64mm (025)

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-0797)

Material	NBR
Color	Light Gray



0.64mm (025)

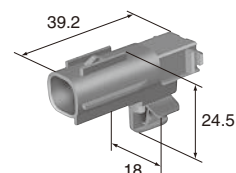
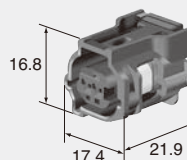
Housing (UNIT : mm)

Ref: Terminal part No.	B-02
Ref: wire seal No.	B-04
Ref: Dummy plug No.	B-05
Material	PBT

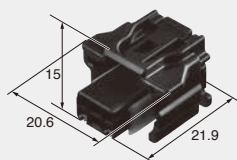
2way

Color	Black
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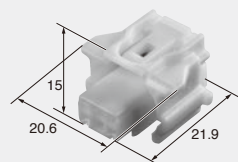
Note: with clip for oval hole


M (6188-4797)
F (6189-1161)


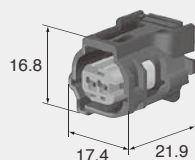
Color	Black
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2way
F (6189-8080)


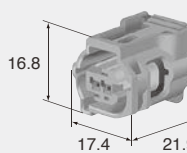
Color	Black
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2way
F (6189-7246)


Color	Natural
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2way
F (6189-7020)


Color	Black
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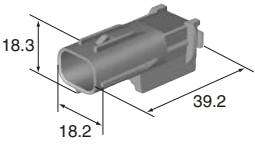
2way
F (6189-7073)


Color	Gray
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3way

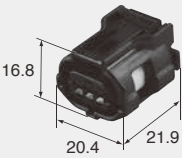
Color Black

Note:Bracket size 9mm



M (6188-4920)

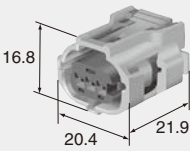
F (6189-1129)



Color Black

3way

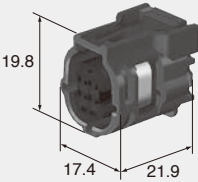
F (6189-1132)



Color Gray

4way

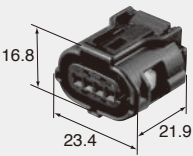
F (6189-6946)



Color Black

4way

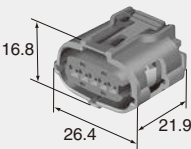
F (6189-7401)



Color Black

5way

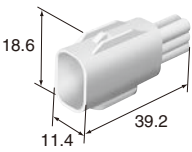
F (6189-1046)



Color Black

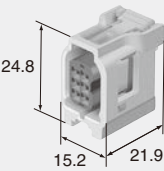
6way

Color Natural



M (6188-0706)

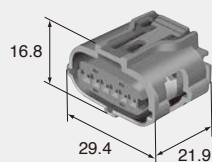
F (6189-1142)



Color Natural

6way

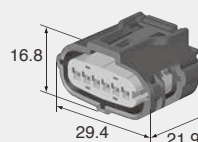
F (6189-1083)



Color Black

6way

F (6189-7100)

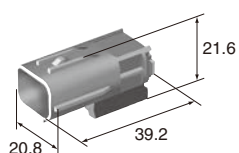


Color Black

8way

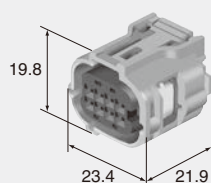
Color Gray

Note: Bracket size 9mm



M (6188-0779)

F (6189-1240)

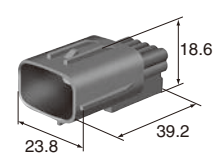


Color Gray

10way

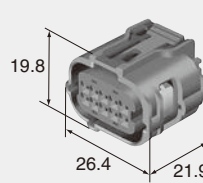
Color Black

Note: Bracket size 9mm



M (6188-0696)

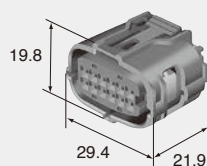
F (6189-1134)



Color Black

12way

F (6189-1128)

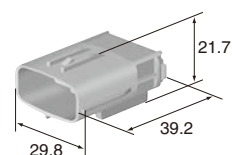


Color Black

13way

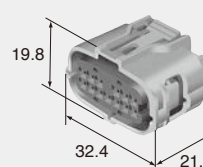
Color Gray

Note: Bracket size 13mm



M (6188-4914)

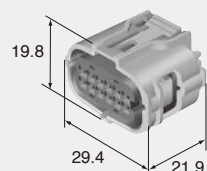
F (6189-1092)



Color Gray

12way

F (6189-1133)

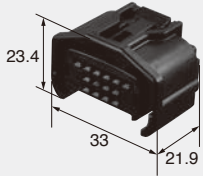


Color Gray

14way

Swing Lever

F (6189-7536)



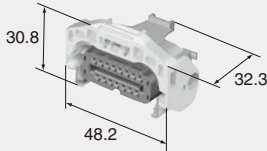
Color

Black

15way

Swing Lever

F (6189-1135)



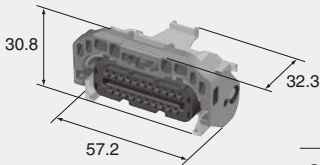
Color

Gray

17way

Swing Lever

F (6189-7110)



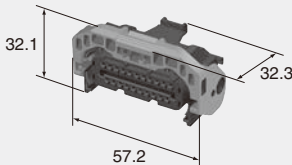
Color

Gray

20way

Swing Lever

F (6189-7167)



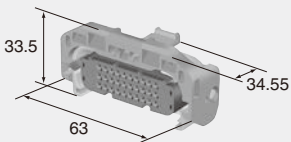
Color

Black

30way

Swing Lever

F (6189-6987)



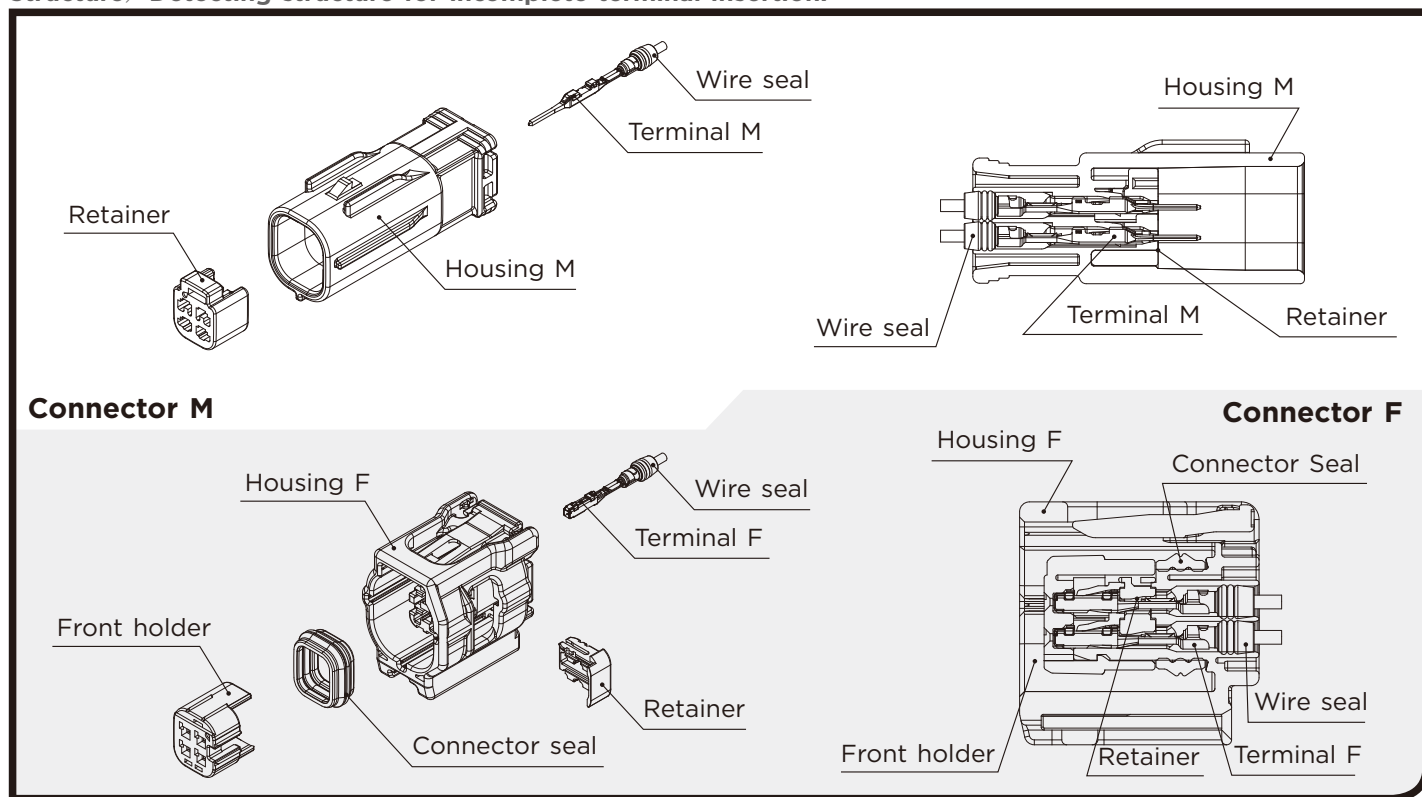
Color

Gray

TS SEALED SERIES for STANDARD

0.64W (025W)

Structure / Detecting structure for incomplete terminal insertion.



These connectors are called "0.64W series" to distinguish from existing 0.64 series. Since 0.64W has wider terminal pitch, there is no compatibility between 0.64 and 0.64W.

0.64Wシリーズは、従来の0.64シリーズより端子間ピッチを拡大しています。その為、従来品との互換性はありません。(一部端子を除く)

0.64W (025W)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

Ref; 0.64mm Terminal detail

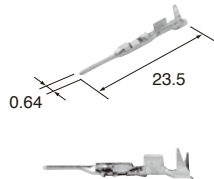
M(Sn)	M (8100-3617)	F (8100-3455)	B-03
M(Au)	M (8100-3708)	F (8100-3456)	B-03

(LL)

Cable size (mm²) CIVUS/0.5 AVSS/0.5
AVSSX/0.5 AVSSH/0.5
IVSSH/0.5 AESX/0.5

Material Brass

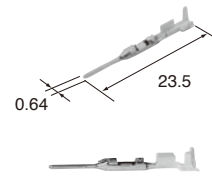
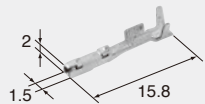
Surface treatment Tin-plated

**(LL)****Au**

Cable size (mm²) CIVUS/0.5 AVSS/0.5
AVSSX/0.5 AVSSH/0.5
IVSSH/0.5 AESX/0.5

Material Brass

Surface treatment Gold-plated

**M (8230-5360)****F (8240-0500)**

Cable size (mm²)

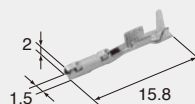
CIVUS/0.5 AVSS/0.5
AVSSX/0.5 AVSSH/0.5
IVSSH/0.5 AESX/0.5

Material

Heat resistant copper-alloy

Surface treatment

Tin-plated

**M (8230-5361)****F (8240-0501)**

Cable size (mm²)

CIVUS/0.5 AVSS/0.5
AVSSX/0.5 AVSSH/0.5
IVSSH/0.5 AESX/0.5

Material

Heat resistant copper-alloy

Surface treatment

Gold-plated

**0.64W (025W)****Wire seals (UNIT : mm)**

- Male / Female Shared
- M、F 共用です。

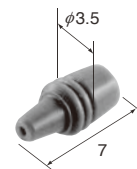
(S)**(7165-1608)**

Cable size (mm²) CIVUS/0.35~0.5

Cable overall diameter (mm) 1.1~1.4

Material Silicone

Color Dark Gray

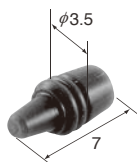
**(M)****(7165-1607)**

Cable size (mm²) AVSS/0.3 AVSSH/0.3
IVSSH/0.35

Cable overall diameter (mm) 1.3~1.5

Material Silicone

Color Dark Green

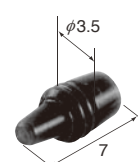
**(L)****(7165-1606)**

Cable size (mm²) AVSS/0.5 AVSSH/0.5
AVSSX/0.5 IVSSH/0.5

Cable overall diameter (mm) 1.51~1.73

Material Silicone

Color Dark Brown

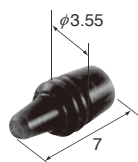
**(L)****(7165-1773)**

Cable size (mm²) (AVSS/0.5) (AVSSH/0.5)
(AVSSX/0.5) (IVSSH/0.5)
(AESX/0.5)

Cable overall diameter (mm) 1.6~1.7

Material Silicone

Color Turquoise (ミントブルー)

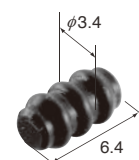


0.64W (025W)

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-1605)



Material	Silicone
Color	Reddish Brown (ベンガラ)

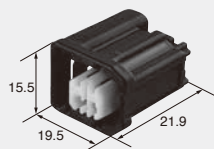
0.64W (025W)

Housing (UNIT : mm)

Ref: Terminal part No.	B-09
Ref: wire seal No.	B-10
Ref: Dummy plug No.	B-11
Material	PBT/PA6T

2way

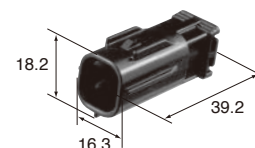
F (6189-7830)



Material	PBT
Color	Black

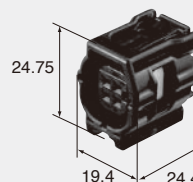
4way

Material	PA6T
Color	Black



M (6188-5516)

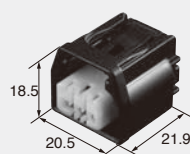
F (6189-7449)



Material	PA6T
Color	Black

3way

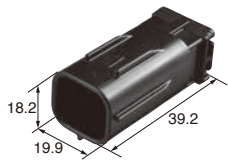
F (6189-7831)



Material	PBT
Color	Black

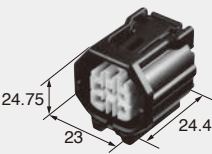
5way

Material	PA6T
Color	Black



M (6188-5955)

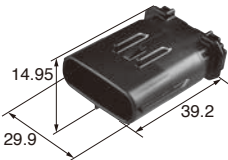
F (6189-7943)



Material	PA6T
Color	Black

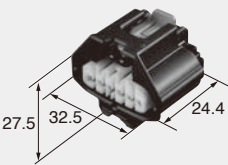
6way

Material	PA6T
Color	Black



M (6188-6290)

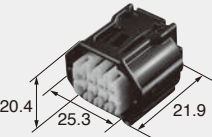
F (6189-8209)



Material	PA6T
Color	Black

8way

F (6189-7800)



Material	PA6T
Color	Black

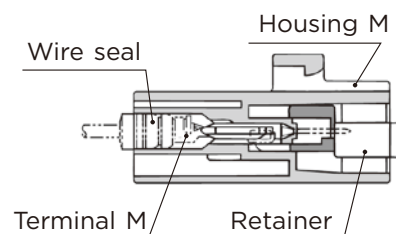
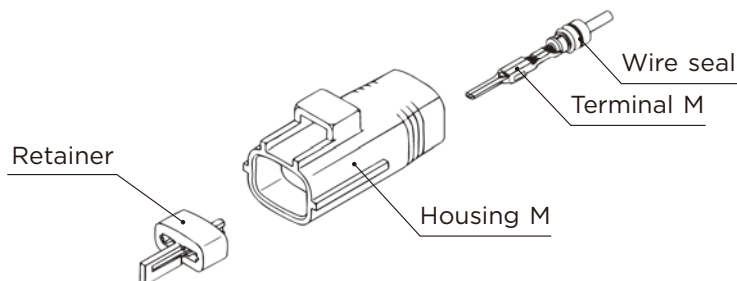
TS SEALED SERIES for STANDARD

2.3mm (090)

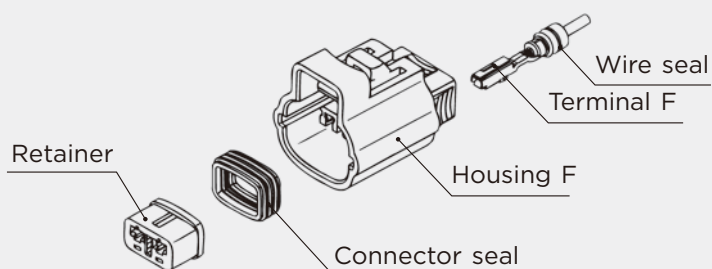
Structure / Detecting structure for incomplete terminal insertion.

B-13

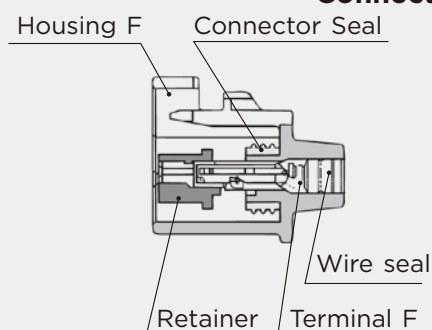
TS SEALED SERIES



Connector M



Connector F



2.3mm (090)

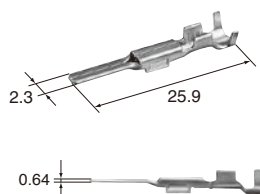
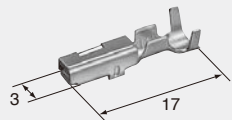
(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)Cable size (mm²) 0.3~0.5

Material Brass

Surface treatment Tin-plated

**M (8100-0457)**Cable size (mm²) 0.3~0.5

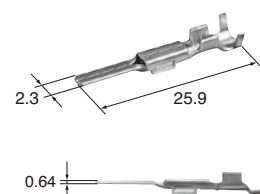
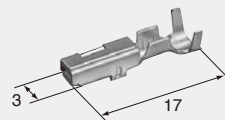
Material Heat-resistant copper alloy

Surface treatment Tin-plated

F (8100-0460)**(S)**Cable size (mm²) 0.3~0.5

Material Brass

Surface treatment Gold-plated

**M (8100-1340)**Cable size (mm²) 0.3~0.5

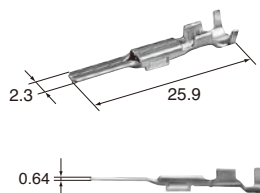
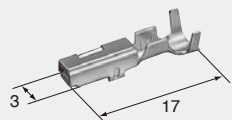
Material Heat-resistant copper alloy

Surface treatment Gold-plated

F (8100-1344)**(M)**Cable size (mm²) 0.5~1.25

Material Brass

Surface treatment Tin-plated

**M (8100-0458)**Cable size (mm²) 0.5~1.25

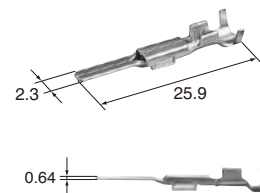
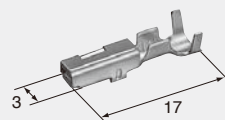
Material Heat-resistant copper alloy

Surface treatment Tin-plated

F (8100-0461)**(M)**Cable size (mm²) 0.5~1.25

Material Brass

Surface treatment Gold-plated

**M (8100-1007)**Cable size (mm²) 0.5~1.25

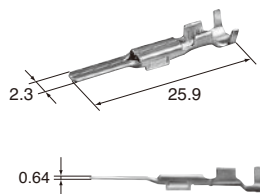
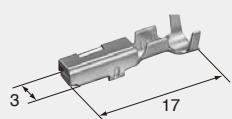
Material Heat-resistant copper alloy

Surface treatment Gold-plated

F (8100-0594)**(L)**Cable size (mm²) 2.0

Material Brass

Surface treatment Tin-plated

**M (8100-0459)**Cable size (mm²) 2.0

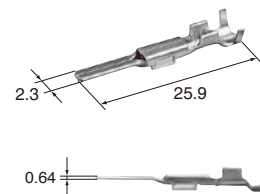
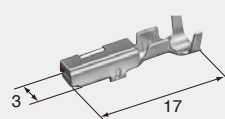
Material Heat-resistant copper alloy

Surface treatment Tin-plated

F (8100-0462)**(L)**Cable size (mm²) 2.0

Material Brass

Surface treatment Gold-plated

**M (8100-1008)**Cable size (mm²) 2.0

Material Heat-resistant copper alloy

Surface treatment Gold-plated

F (8100-0817)**Au****Au****Au**

2.3mm (090)

Wire seals (UNIT : mm)

- Male / Female Shared
- P5 : For 5mm pitch housing/Please inquire us for the details.
- P6 : For 6mm pitch housing
- M、F 共用です。
- P5 : 5ミリピッチ用 / 別途お問い合わせください。
- P6 : 6ミリピッチ用

(SS)

(P6)

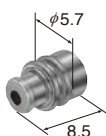
(7165-0842)

Cable size (mm²) (CIVUS/0.35~0.5)

Cable overall diameter (mm) 1.1~1.4

Material Silicone

Color Blue



(SS)

(P5)

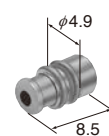
(7165-1706)

Cable size (mm²) (CIVUS/0.35~0.5)

Cable overall diameter (mm) 1.1~1.4

Material Silicone

Color Violet



(S)

(P6)

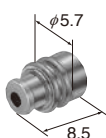
(7165-0349)

Cable size (mm²) (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)

(P5)

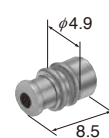
(7165-0342)

Cable size (mm²) (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 Reddish Brown (ベンガラ)



(M)

(P6)

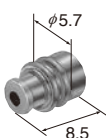
(7165-0395)

Cable size (mm²) (AV/0.5) (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)

(P5)

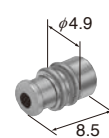
(7165-0343)

Cable size (mm²) (AV/0.5) (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



(L)

(P6)

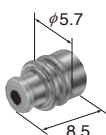
(7165-0351)

Cable size (mm²) (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)

(P5)

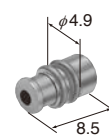
(7165-0344)

Cable size (mm²) (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



2.3mm (090)

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- P5 : For 5mm pitch housing/Please inquire us for the details.
- P6 : For 6mm pitch housing
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。
- P5 : 5ミリピッチ用 / 別途お問い合わせください。
- P6 : 6ミリピッチ用

2.3mm (090)

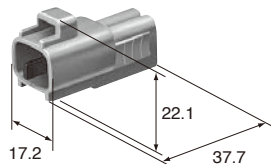
Housing (UNIT : mm)

Ref: Terminal part No.	B-13
Ref: wire seal No.	B-15
Ref: Dummy plug No.	B-16
Material	PBT/PA6T

2way

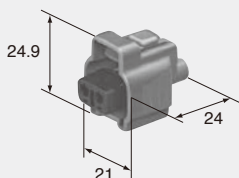
Material	PBT
Color	Gray

Note: Bracket size 9mm



M (6188-0108)

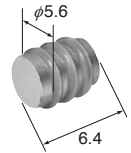
F (6189-0199)



Material	PBT
Color	Gray

(P6)

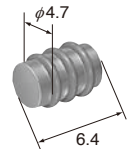
(7160-9465)



Material	NBR
Color	Black

(P5)

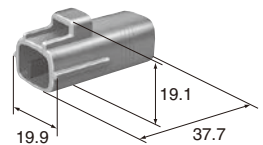
(7161-9787)



Material	NBR
Color	Brown

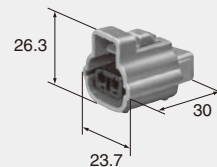
2way

Material	PBT
Color	Gray



M (6188-0047)

F (6189-0100)

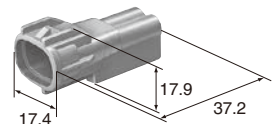


Material	PBT
Color	Gray

2way

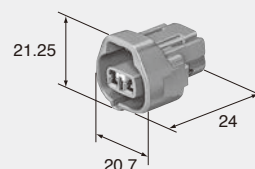
Material	PBT
Color	Gray

Note: Bracket size 9mm



M (6188-0266)

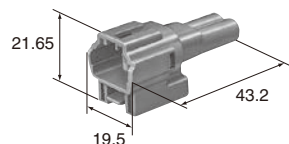
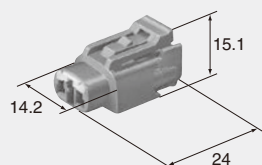
F (6189-0249)



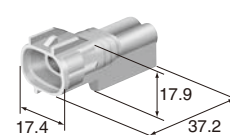
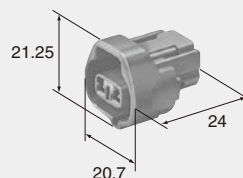
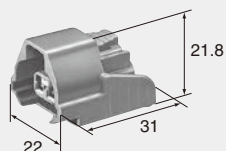
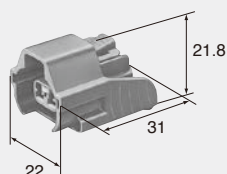
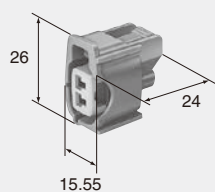
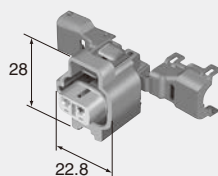
Material	PBT
Color	Gray

2way**Material** PBT**Color** Gray

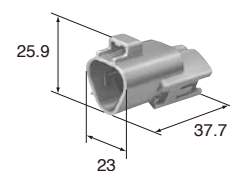
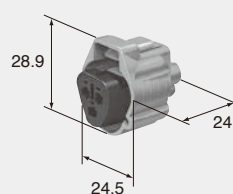
Note: Bracket size 13mm

**M (6188-0229)****F (6189-0388)****Material** PBT**Color** Gray**2way****Material** PBT**Color** Natural

Note: Bracket size 9mm

**M (6188-0624)****F (6189-0765)****Material** PBT**Color** Natural**2way****P5****F (6189-0566)****Material** PBT**Color** Gray**2way****P5****F (6189-0573)****Material** PBT**Color** Gray**2way****P5****F (6189-0611)****Material** PBT**Color** Gray**2way****F (6189-0682)****Material** PBT**Color** Gray**3way (T Type)****Material** PBT**Color** Gray

Note: Bracket size 9mm

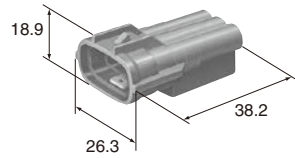
**M (6188-0099)****F (6189-0179)****Material** PBT**Color** Gray

3way (E Type)

Material PBT

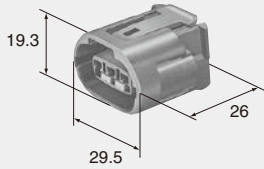
Color Gray

Note: Bracket size 9mm



M (6188-0282)

F (6189-0443)

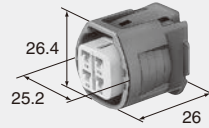


Material PBT

Color Gray

4way

F (6189-0694)

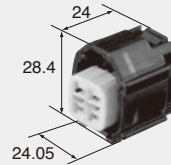


Material PBT

Color Black

4way

F (6189-7398)



Material PA6T

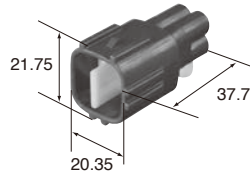
Color Black

4way

Material PBT

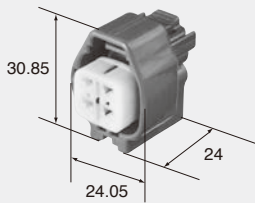
Color Black

Note: Bracket size 9mm



M (6188-0517)

F (6189-0581)



Material PBT

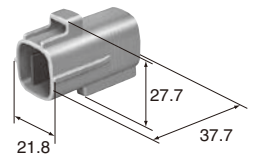
Color Black

4way

Material PBT

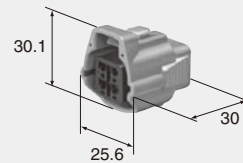
Color Gray

Note: Bracket size 9mm



M (6188-0066)

F (6189-0126)



Material PBT

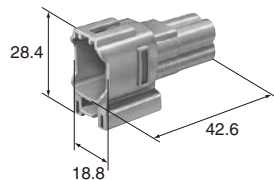
Color Gray

4way

Material PBT

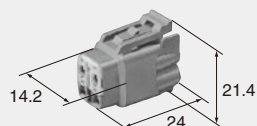
Color Gray

Note: Bracket size 13mm



M (6188-0141)

F (6189-0381)



Material PBT

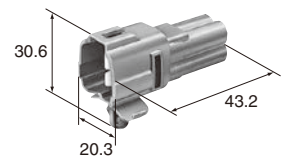
Color Gray

4way

Material PBT

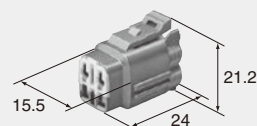
Color Gray

NOTE : With clip for oval hole.
Plate thickness range for clamp:
 $t=0.7\sim 2.2$



M (6188-0217)

F (6189-0372)



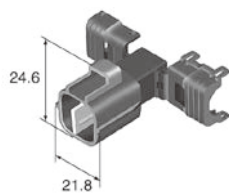
Material PBT

Color Gray

4way

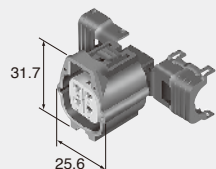
Material PBT

Color Gray



M (6188-0472)

F (6189-0685)



Note: Bracket size 9mm

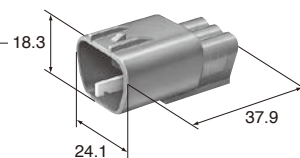
Material PBT
Color Gray

5way

Material PBT

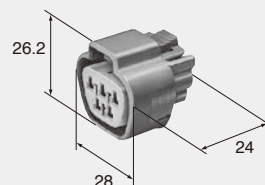
Color Gray

Note: Bracket size 9mm



M (6188-0327)

F (6189-0504)

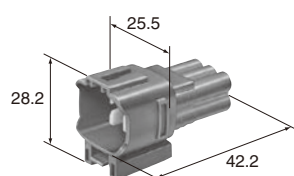
Material PBT
Color Gray

6way

Material PBT

Color Gray

Note: Bracket size 13mm



M (6188-0173)

F (6189-0319)

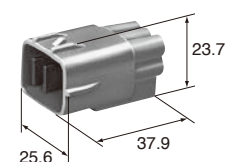
Material PBT
Color Gray

6way

Material PBT

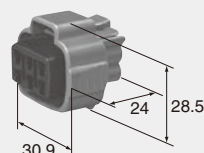
Color Gray

Note: Bracket size 9mm



M (6188-0175)

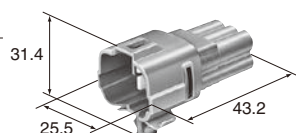
F (6189-0323)

Material PBT
Color Gray

6way

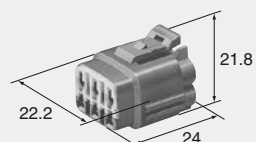
Material PBT

Color Gray

NOTE : With clip for oval hole.
Plate thickness range for clamp:
t=0.7~2.2

M (6188-0209)

F (6189-0368)

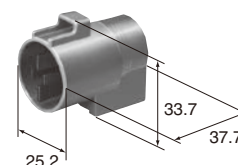
Material PBT
Color Gray

7way

Material PBT

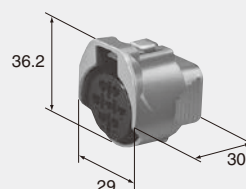
Color Gray

Note: Bracket size 17mm



M (6188-0067)

F (6189-0127)

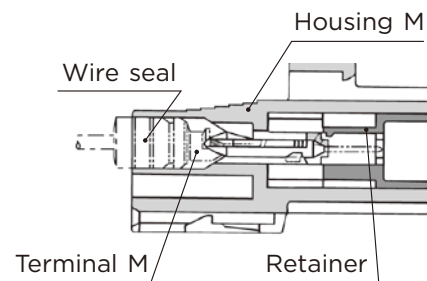
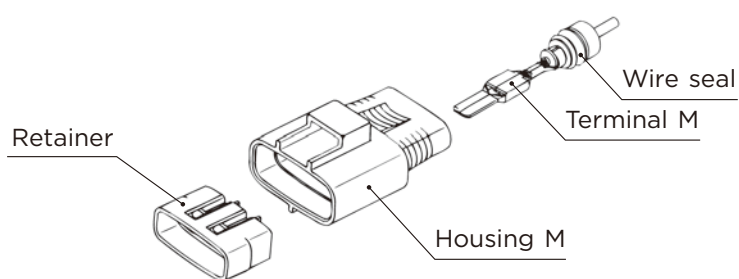
Material PBT
Color Gray

TS SEALED SERIES for STANDARD

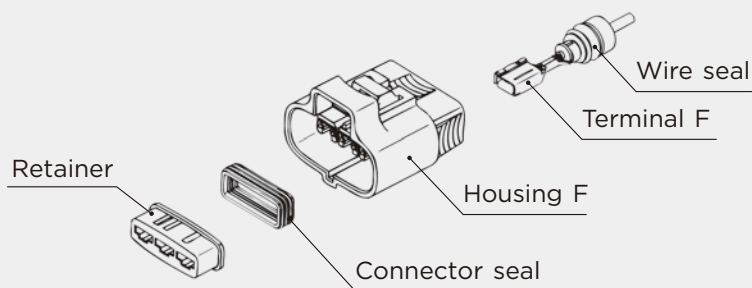
4.8mm (187)

Structure / Detecting structure for incomplete terminal insertion.

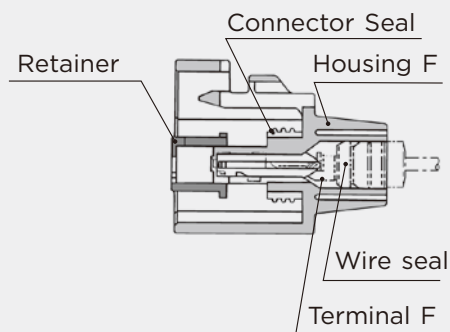
B-20



Connector M



Connector F



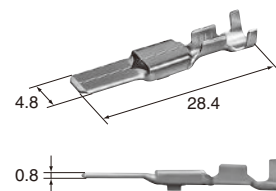
4.8mm (187)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

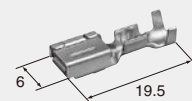
Terminal (UNIT : mm)

(S)

Cable size (mm ²)	0.3~0.5
Material	Brass
Surface treatment	Tin-plated

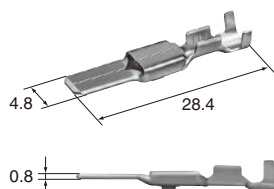
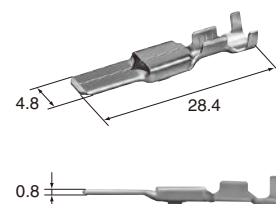
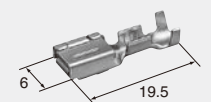
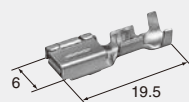


M (8100-0463)

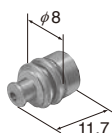
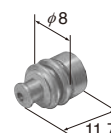
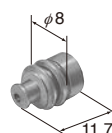
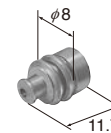


F (8100-0466)

Cable size (mm ²)	0.3~0.5
Material	Brass
Surface treatment	Tin-plated

(M)**Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**(L)****Cable size (mm²)** 2.0~3.0**Material** Brass**Surface treatment** Tin-plated**M (8100-0464)****F (8100-0467)****Cable size (mm²)** 0.5~1.25**Material** Brass**Surface treatment** Tin-plated**M (8100-0465)****F (8100-0468)****Cable size (mm²)** 2.0~3.0**Material** Heat-resistant copper alloy**Surface treatment** Tin-plated**4.8mm (187)****Wire seals (UNIT : mm)**

- Male / Female Shared
- M、F 共用です。

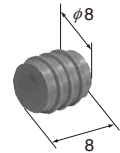
(S)**(7165-0346)****Cable size (mm²)** (AVS/0.3) (AVSS/0.3~0.85)
(AVSSX·AESSX/0.5~0.75) (CAVUS/0.85~1.25)**Cable overall diameter (mm)** 1.4~2.0**Material** Silicone**Color** Dark Brown**(M)****(7165-0347)****Cable size (mm²)** (AV/0.5~1.25) (AVX·AEX/0.5~1.25) (AVS/0.5~1.25)
(AVSS/1.25~2.0) (AVSSX·AESSX/1.25~2.0)**Cable overall diameter (mm)** 2.0~2.9**Material** Silicone**Color** Dark Green**(L)****(7165-0348)****Cable size (mm²)** (AV/2.0) (AVX·AEX/2.0) (AVS/2.0)**Cable overall diameter (mm)** 2.9~3.5**Material** Silicone**Color** Dark Gray**(LL)****(7165-0356)****Cable size (mm²)** (AV/3.0) (AVX·AEX/3.0) (AVS/3.0)**Cable overall diameter (mm)** 3.5~4.1**Material** Silicone**Color** Dark Blue

4.8mm (187)

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-0145)



Material	NBR
Color	Gray

4.8mm (187)

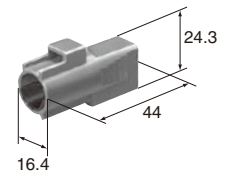
Housing (UNIT : mm)

Ref: Terminal part No.	B-20
Ref: wire seal No.	B-21
Ref: Dummy plug No.	B-22
Material	PBT

1way

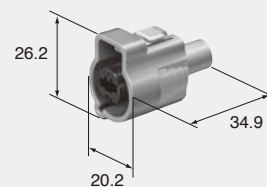
Color	Gray
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Note: Bracket size 9mm



M (6188-0083)

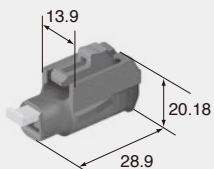
F (6189-0145)



Color	Gray
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1way

F (6189-0413)

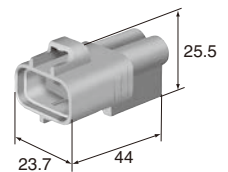


Color	Black
-------	-------

2way

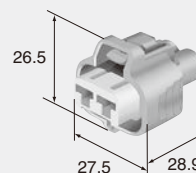
Color	Gray
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Note: Bracket size 9mm



M (6188-0259)

F (6189-0425)

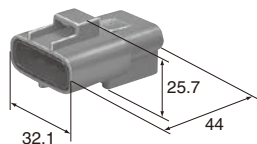


Color	Gray
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3way

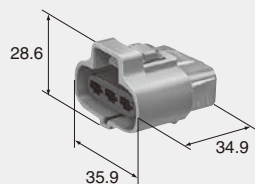
Color Gray

Note: Bracket size 17mm



M (6188-0129)

F (6189-0165)



Color

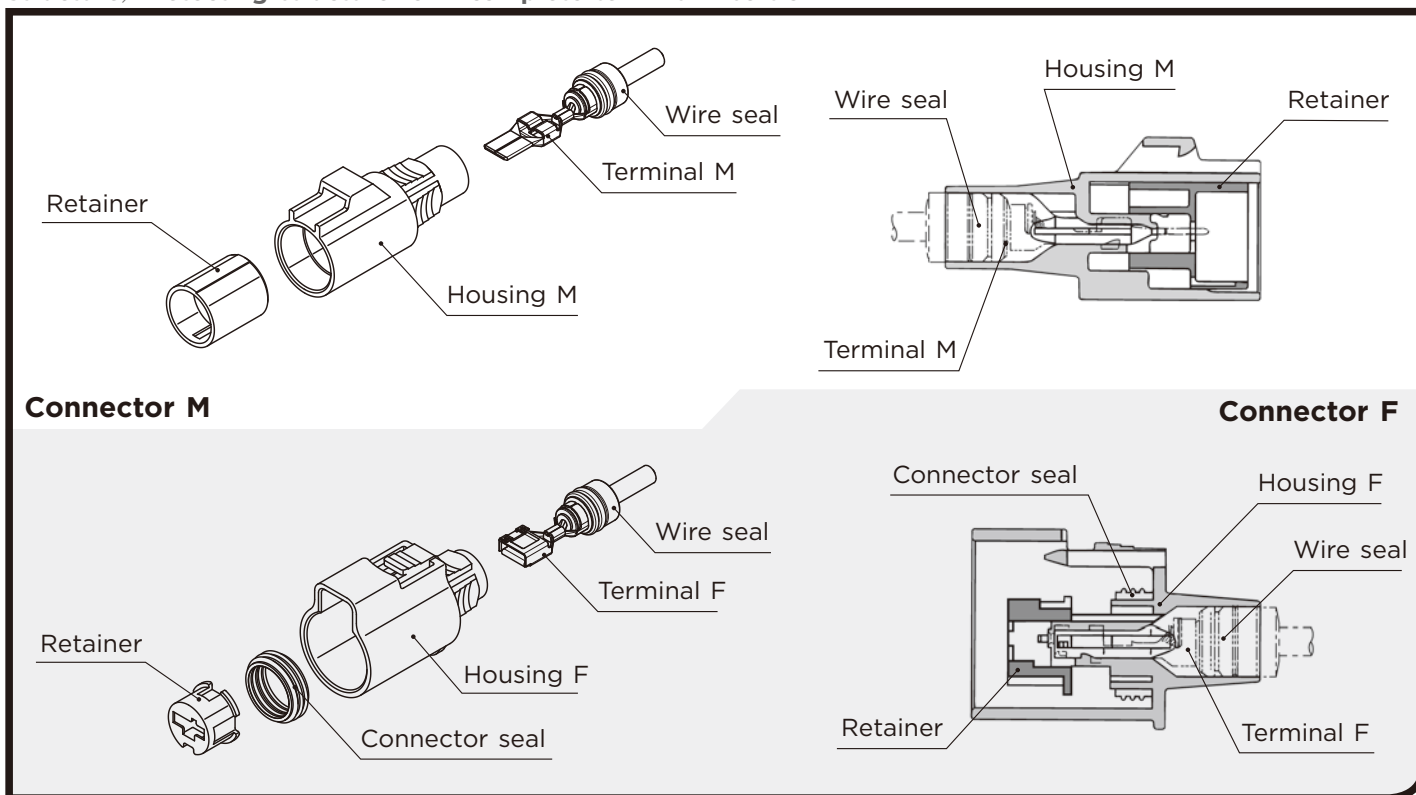
Gray

TS SEALED SERIES for STANDARD

8.0mm (312)

Structure / Detecting structure for incomplete terminal insertion.

B-24



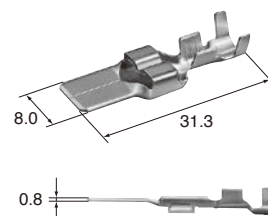
8.0mm (312)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

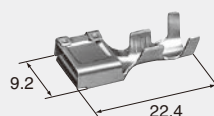
Terminal (UNIT : mm)

(S)

Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	2.0~2.7
Material	Brass
Surface treatment	Tin-plated



M (8100-0506)



F (8100-0451)

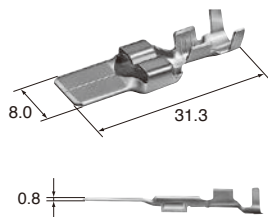
Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	2.0~2.7
Material	Brass
Surface treatment	Tin-plated

(M)Cable size (mm²) 2.0~3.0

Cable overall diameter (mm) 2.6~4.1

Material Brass

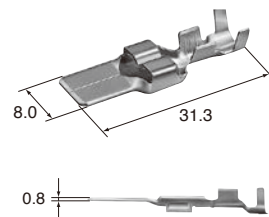
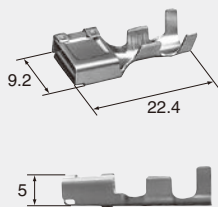
Surface treatment Tin-plated

**(L)**Cable size (mm²) 5.0~8.0

Cable overall diameter (mm) 4.4~5.8

Material Brass

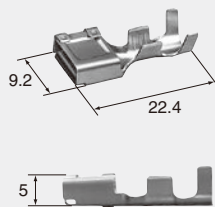
Surface treatment Tin-plated

**M (8100-0507)****F (8100-0452)**Cable size (mm²) 2.0~3.0

Cable overall diameter (mm) 2.6~4.1

Material Brass

Surface treatment Tin-plated

M (8100-0508)**F (8100-2980)**Cable size (mm²) 5.0~8.0

Cable overall diameter (mm) 4.4~5.8

Material Heat-resistant copper alloy

Surface treatment Tin-plated

8.0mm (312)**Wire seals (UNIT : mm)**

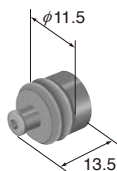
- Male / Female Shared
- M、F 共用です。

(SS)**(7165-0683)**Cable size (mm²) (AVS・AVX/0.5~1.25)

Cable overall diameter (mm) Over 2.0 mm less than 2.9 mm

Material Silicone

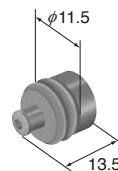
Color Dark Brown

**(S)****(7165-0400)**Cable size (mm²) (AV/3.0) (AVX・AEX/3.0)
(AVS/3.0)

Cable overall diameter (mm) 3.6~4.1

Material Silicone

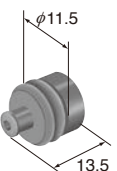
Color Dark Gray

**(M)****(7165-0392)**Cable size (mm²) (AV/5.0) (AVX・AEX/5.0)
(AVS/5.0)

Cable overall diameter (mm) 4.4~4.9

Material Silicone

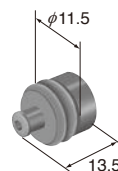
Color Dark Blue

**(L)****(7165-0393)**Cable size (mm²) (AV/8.0) (AVX・AEX/8.0)
(AVS/8.0)

Cable overall diameter (mm) 5.3~5.8

Material Silicone

Color Black



8.0mm (312)

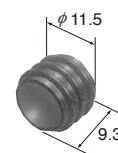
B-26

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-0180)

Material NBR
Color Black



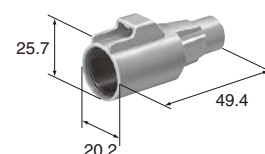
8.0mm (312)

Housing (UNIT : mm)

Ref: Terminal part No. B-24
Ref: wire seal No. B-25
Ref: Dummy plug No. B-26
Material PBT

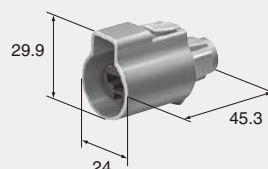
1way

Color Gray



M (6188-0049)

F (6189-0101)

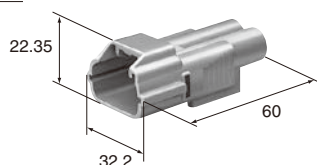


Color Gray

2way

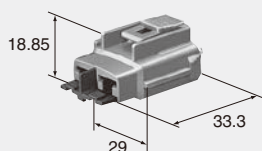
Color Gray

Note: Bracket size 17mm



M (6188-0096)

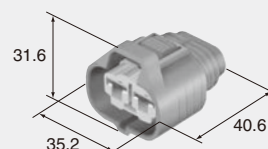
F (6189-0172)



Color Gray

2way

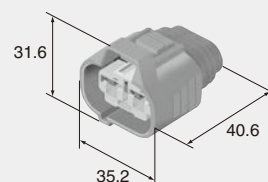
F (6189-0856)



Color Gray

2way

F (6189-6953)



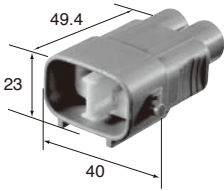
Color Gray

2way

Swing Lever

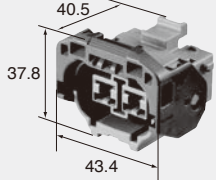
Color

Gray



M (6188-5295)

F (6189-7256)



Color

Gray

TS SEALED SERIES for HYBRID

B-28

**0.64mm, 2.3mm
(025, 090)**

Housing (UNIT : mm)

Ref: Terminal part No. [0.64mm] B-02
[2.3mm] B-13

Ref: wire seal No. [0.64mm] B-04
[2.3mm] B-15

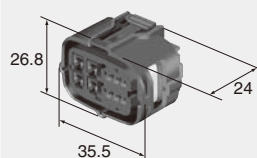
Ref: Dummy plug No. [0.64mm] B-05
[2.3mm] B-16

Material PBT

No. of way/ () corresponds to 0.64mm, 2.3mm, in order from left to right.
極数/ () 内表示: 左から0.64mm 極数、2.3mm 極数

10way (6+4)

F (6189-7691)

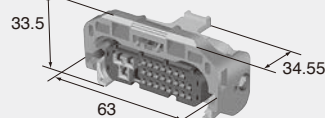


Color Black

13way (10+3)

P5 (2.3mm) Swing Lever

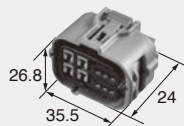
F (6189-7077)



Color Gray

10way (6+4)

F (6189-8321)

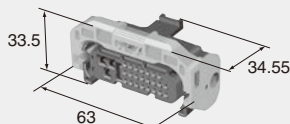


Color Gray

26way (23+3)

P5 (2.3mm) Swing Lever

F (6189-6934)



Color Black

**0.64mm, 4.8mm
(025, 187)**

Housing (UNIT : mm)

Ref: Terminal part No. [0.64mm] B-02
[4.8mm] B-20

Ref: wire seal No. [0.64mm] B-04
[4.8mm] B-21

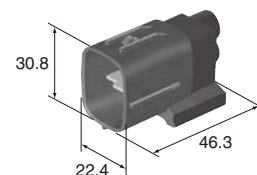
Ref: Dummy plug No. [0.64mm] B-05
[4.8mm] B-22

Material PBT

No. of way/ () corresponds to 0.64mm, 4.8mm, in order from left to right.
極数/ () 内表示: 左から0.64mm 極数、4.8mm 極数

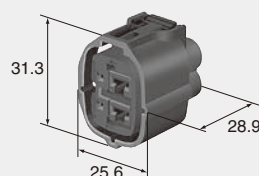
4way (2+2)

Color Black

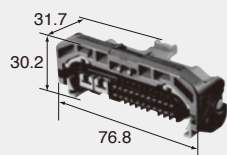


M (6188-5103)

F (6189-1048)

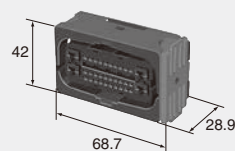


Color Black

24way (22+2)**Swing Lever****F (6189-7426)**

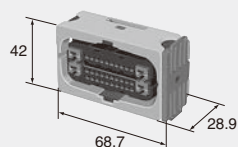
Color

Gray

34way (30+4)**Slide Lever****F (6189-6978)**

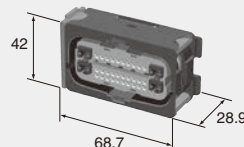
Color

Black

34way (30+4)**Slide Lever****F (6189-6979)**

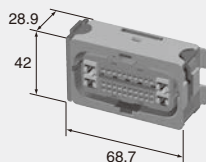
Color

Gray

34way (30+4)**Slide Lever****F (6189-6980)**

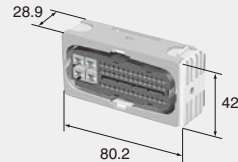
Color

Black

34way (30+4)**Slide Lever****F (6189-6981)**

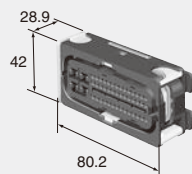
Color

Gray

40way (36+4)**Slide Lever****F (6189-1160)**

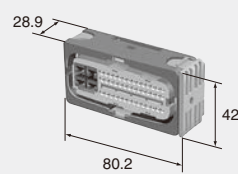
Color

Gray

46way (42+4)**Slide Lever****F (6189-1136)**

Color

Black

46way (42+4)**Slide Lever****F (6189-6894)**

Color

Black

0.64mm, 8.0mm (025, 312)

Housing (UNIT : mm)

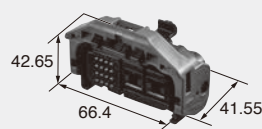
Ref: Terminal part No. [0.64mm] B-02
[8.0mm] B-24

Ref: wire seal No. [0.64mm] B-04
[8.0mm] B-25

Ref: Dummy plug No. [0.64mm] B-05
[8.0mm] B-26

Material PBT

No. of way/ () corresponds to 0.64mm, 8mm in order from left to right.
極数 / () 内表示: 左から0.64mm 極数、8mm 極数

18way (16+2)**Swing Lever****F (6189-7208)**

Color

Black

0.64W, 8.0mm
(025W, 312)

Housing (UNIT : mm)

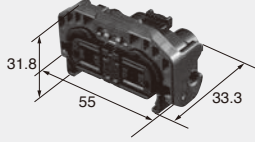
Ref: Terminal part No.	[0.64W]	B-09
	[8.0mm]	B-24
Ref: wire seal No.	[0.64W]	B-10
	[8.0mm]	B-25
Ref: Dummy plug No.	[0.64W]	B-11
	[8.0mm]	B-26
Material	PBT/PA6T	

No. of way/ () corresponds to 0.64W, 8.0mm in order from left to right.
極数／ () 内表示：左から0.64W 極数、2.3mm 極数、4.8mm 極数

4way (2+2)

Swing Lever

F (6189-7731)

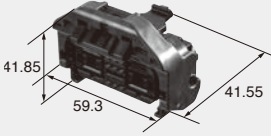


Material	PBT
Color	Black

11way (9+2)

Swing Lever

F (6189-7813)

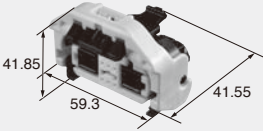


Material	PA6T
Color	Black

11way (9+2)

Swing Lever

F (6189-8251)



Material	PA6T
Color	Black

**2.3mm, 4.8mm
(090, 187)**

Housing (UNIT : mm)

Ref: Terminal part No. [2.3mm] B-13
[4.8mm] B-20

Ref: wire seal No. [2.3mm] B-15
[4.8mm] B-21

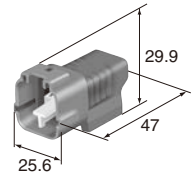
Ref: Dummy plug No. [2.3mm] B-16
[4.8mm] B-22

Material PBT

No. of way/ () corresponds to 2.3mm, 4.8mm in order from left to right.
極数/ () 内表示: 左から2.3mm 極数、4.8mm 極数

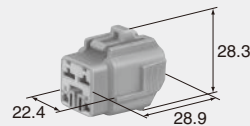
4way (2+2)

Color Gray



M (6188-0415)

F (6189-0144)

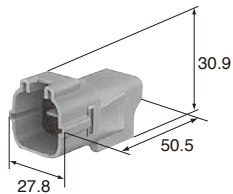


Color Gray

5way (3+2)

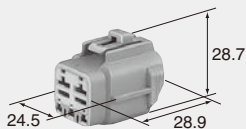
Color Gray

Note: Bracket size 17mm



M (6188-0091)

F (6189-0166)

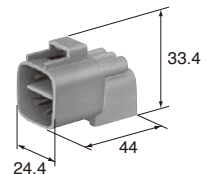


Color Gray

5way (3+2)

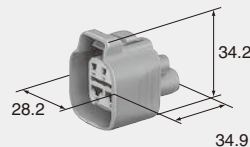
Color Gray

Note: Bracket size 17mm



M (6188-0101)

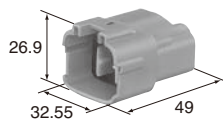
F (6189-0181)



Color Gray

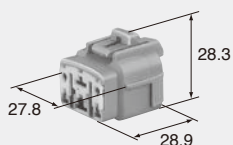
6way (4+2)

Color Gray



M (6188-0187)

F (6189-0143)

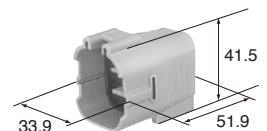


Color Gray

11way (8+3)

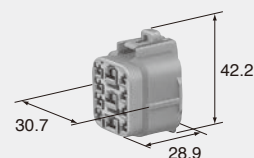
Color Gray

Note: Bracket size 17mm



M (6188-0221)

F (6189-0376)



Color Gray

4.8mm, 8.0mm (187, 312)

Housing (UNIT : mm)

Ref: Terminal part No. [4.8mm] B-20
[8.0mm] B-24

Ref: wire seal No. [4.8mm] B-21
[8.0mm] B-25

Ref: Dummy plug No. [4.8mm] B-22
[8.0mm] B-26

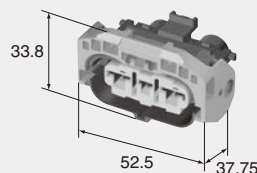
Material PBT

No. of way/ () corresponds to 4.8mm, 8.0mm in order from left to right.
極数/() 内表示: 左から4.8mm 極数、8.0mm 極数

3way (1+2)

Swing Lever

F (6189-7156)



Color

Black

0.64mm, 2.3mm, 4.8mm (025, 090, 187)

Housing (UNIT : mm)

Ref: Terminal part No. [0.64mm] B-02
[2.3mm] B-13
[4.8mm] B-20

Ref: wire seal No. [0.64mm] B-04
[2.3mm] B-15
[4.8mm] B-21

Ref: Dummy plug No. [0.64mm] B-05
[2.3mm] B-16
[4.8mm] B-22

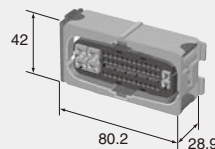
Material PBT

No. of way/ () corresponds to 0.64mm, 2.3mm, 4.8mm in order from left to right.
極数/() 内表示: 左から0.64mm 極数、2.3mm 極数 4.8mm 極数

42way (36+2+4)

P5 (2.3mm) Slide Lever

F (6189-7094)



Material

PBT

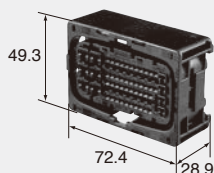
Color

Black

52way (42+4+6)

P5 (2.3mm) Swing + Slide Lever

F (6189-7809)



Material

PBT

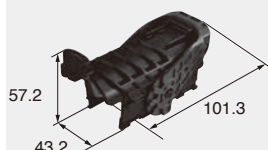
Color

Black

Fitting Cover

Straight type

F (6911-6648)



Material

PBT G30

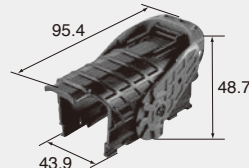
Color

Black

Fitting Cover

Left angle type

F (6911-5948)



Material

PBT G30

Color

Black

0.64W, 2.3mm, 4.8mm
(025W, 090, 187)

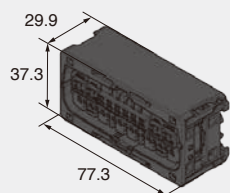
Housing (UNIT : mm)

Ref: Terminal part No.	[0.64W]	B-09
	[2.3mm]	B-13
	[4.8mm]	B-20
Ref: wire seal No.	[0.64W]	B-10
	[2.3mm]	B-15
	[4.8mm]	B-21
Ref: Dummy plug No.	[0.64W]	B-11
	[2.3mm]	B-16
	[4.8mm]	B-22
Material	PBT	

No. of way/ () corresponds to 0.64W, 2.3mm, 4.8mm in order from left to right.
極数/() 内表示: 左から0.64W 極数、2.3mm 極数、4.8mm 極数

31way (21+6+4) P5 (2.3mm) Swing + Slide Lever

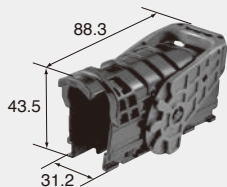
F (6189-7836)



Material	PBT
Color	Black

Fitting Cover

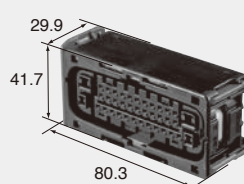
F (6911-5774)



Material	PBT G30
Color	Black

38way (34+2+2) P5 (2.3mm) Slide Lever

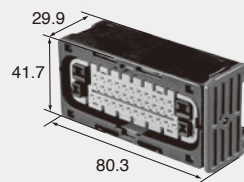
F (6189-7435)



Material	PBT
Color	Black

38way (34+2+2) P5 (2.3mm) Slide Lever

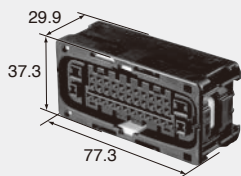
F (6189-7436)



Material	PBT
Color	Black

38way (34+2+2) P5 (2.3mm) Swing + Slide Lever

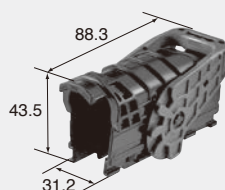
F (6189-7433)



Material	PBT
Color	Black

Fitting Cover

F (6911-5774)

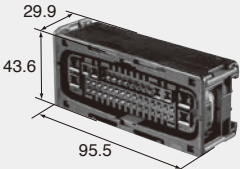


Material	PBT G30
Color	Black

46way (38+4+4)

Slide Lever

F (6189-7546)

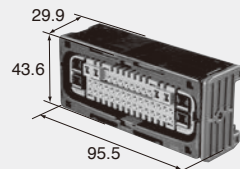


Material	PBT
Color	Black

46way (38+4+4)

Slide Lever

F (6189-7547)



Material	PBT
Color	Black

0.64W, 2.3mm, 4.8mm 8.0mm
(025W, 090, 187 312)

Housing (UNIT : mm)

Ref: Terminal part No.	[0.64W]	B-09
	[2.3mm]	B-13
	[4.8mm]	B-20
	[8.0mm]	B-24
Ref: wire seal No.	[0.64W]	B-10
	[2.3mm]	B-15
	[4.8mm]	B-21
	[8.0mm]	B-25
Ref: Dummy plug No.	[0.64W]	B-11
	[2.3mm]	B-16
	[4.8mm]	B-22
	[8.0mm]	B-26

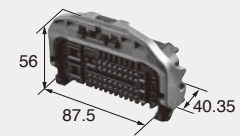
Material PBT

No. of way/ () corresponds to 0.64W, 2.3mm, 4.8mm in order from left to right.
極数／ () 内表示 : 左から0.64W 極数、2.3mm 極数、4.8mm 極数

42way (36+3+1+2)

P5 (2.3mm) Swing + Slide Lever

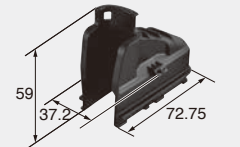
F (6189-8470)



Material	PBT
Color	Black

Fitting Cover

F (6911-7444)



Material	PBT G30
Color	Black

HE SERIES



Features

The HE connector series is the improved version of the conventional HD series, with a mechanism that minimizes the possibility of terminal back out and semi engagement of connectors.

An incompletely inserted terminal is automatically adjusted to the correct position by setting a TPA/Retainer. A mounting clip or bracket (support) can be attached to the connector housing to secure it to the car body, and multiple connectors can be joined. PCB models are also available for connection to printed circuit boards.

特 長

HE シリーズは、従来の HD シリーズを改良し、信頼性を向上させたコネクタです。ターミナル抜けやコネクタの半嵌合が起きにくい機構を備えています。

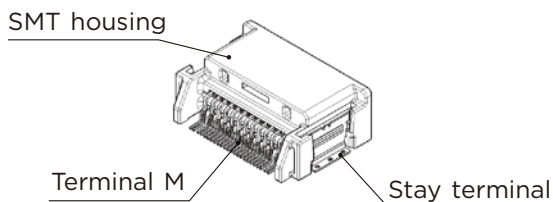
挿入不足のターミナルは、リテーナをセットすることにより正規の位置に固定されます。コネクタハウジングにはボデーに固定するためのクリップの装着や、コネクタ同士の連結が可能なコネクタもご用意しています。プリント基板との接続に適した PCB タイプもご用意しています。

HE SERIES for STANDARD

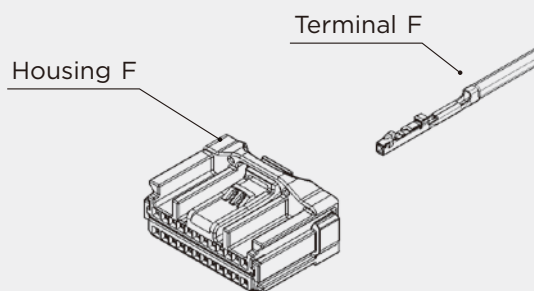
0.5mm (020)

Structure

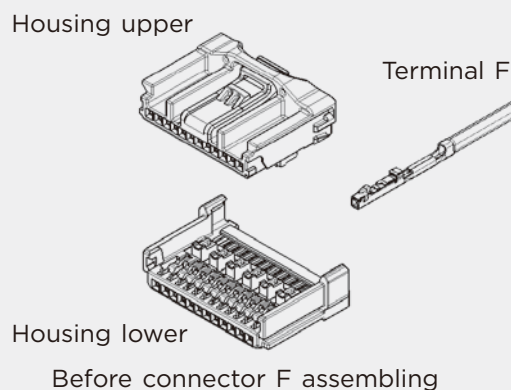
C-02



Connector M (PCB)



Connector F



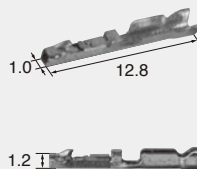
0.5mm (020)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(SS)

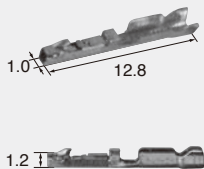
F (8240-0700)



Cable size (mm ²)	CIVUS0.13
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)

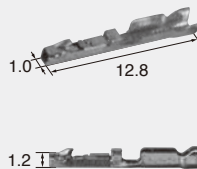
F (8240-0701)



Cable size (mm ²)	CIVUS0.35
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)

F (8240-0702)



Cable size (mm ²)	CIVUS0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

0.5mm (020)

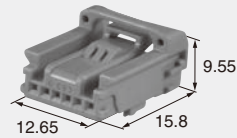
Housing (UNIT : mm)

Ref: Terminal part No. C-02

Material PBT

12way

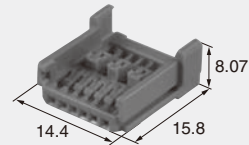
F (6099-0063) Upper



[Reference]
Upper & Lower
Completed model

Color Light Gray

F (6099-0064) Lower



PCB Connector part No.
6099-0003 (C-04)

Color Light Gray

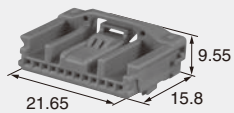
C-03

HE SERIES

24way

rib A

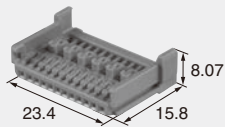
F (6099-0059) Upper



[Reference]
Upper & Lower
Completed model

Color Light Gray

F (6099-0060) Lower



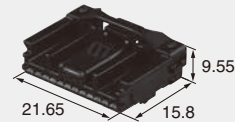
PCB Connector part No.
6098-9725 (C-04)

Color Light Gray

24way

rib B

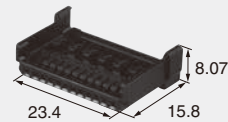
F (6099-0061) Upper



[Reference]
Upper & Lower
Completed model

Color Black

F (6099-0062) Lower

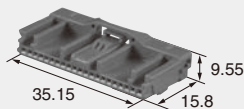


PCB Connector part No.
6098-9727 (C-04)

Color Black

42way

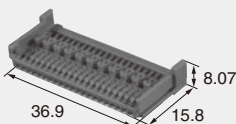
F (6099-0057) Upper



[Reference]
Upper & Lower
Completed model

Color Light Gray

F (6099-0058) Lower



PCB Connector part No.
6099-0001 (C-04)

Color Light Gray

●Applicable Female Terminal 適用フィメールターミナル一覧

12Way	Lock											
	B	A	A	A	A	B						
24Way	Lock											
	B	A	A	A	A	A	A	A	A	A	B	

42Way	Lock																					
	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B

●Applicable Female Terminal for A cavities Aキャビティ適用0.5型端子

サイズ	Alias	適用電線	Applicable Wire	品番	Part.No
SS			CIVU50.13	8240-0700	
S			CIVU50.35	8240-0701	

●Applicable Female Terminal for B cavities Bキャビティ適用0.5型端子

サイズ	Alias	適用電線	Applicable Wire	品番	Part.No
SS			CIVU50.13	8240-0700	
S			CIVU50.35	8240-0701	
M			CIVU50.5	8240-0702	

HE SERIES

for PCB

0.5mm (020)

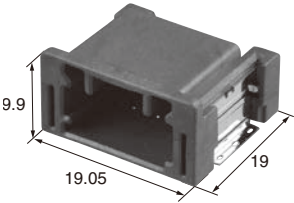
Housing (UNIT : mm)

Material	LCP
----------	-----

12way

(Horizontal SMT)

M (6099-0003)



Connector F part No.

6099-0063 (C-03)
6099-0064 (C-03)

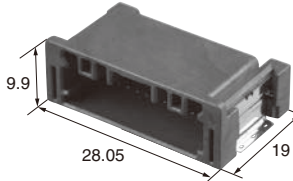
Color

Gray

24way

(Horizontal SMT) rib A

M (6098-9725)



Connector F part No.

6099-0059 (C-03)
6099-0060 (C-03)

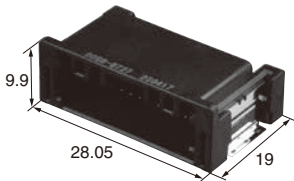
Color

Gray

24way

(Horizontal SMT) rib B

M (6098-9727)



Connector F part No.

6099-0061 (C-03)
6099-0062 (C-03)

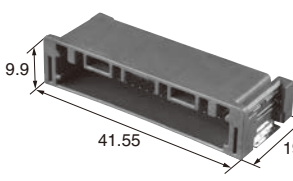
Color

Black

42way

(Horizontal SMT)

M (6099-0001)



Connector F part No.

6099-0057 (C-03)
6099-0058 (C-03)

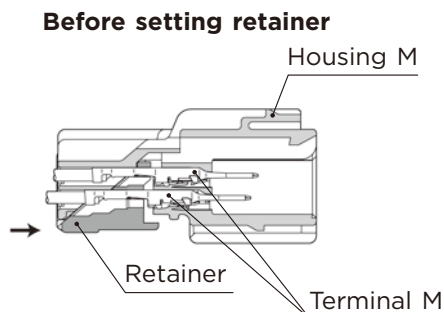
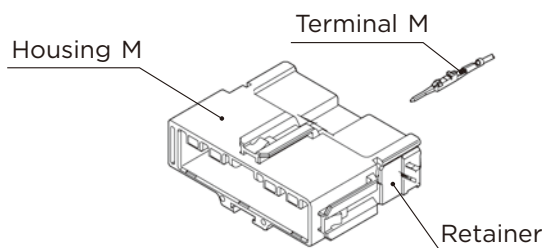
Color

Gray

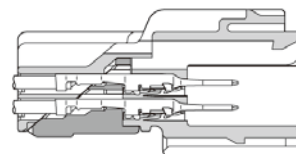
HE SERIES for STANDARD

0.64mm (025)

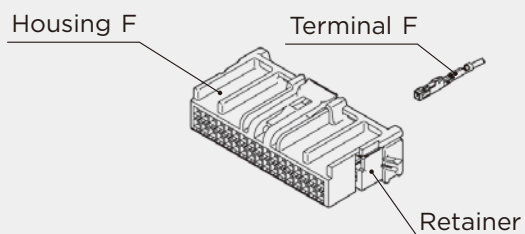
Structure



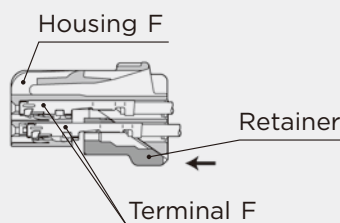
After setting retainer



Connector M



Before setting retainer



After setting retainer



0.64mm (025)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

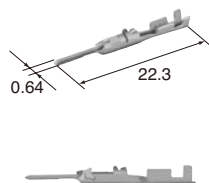
Terminal (UNIT : mm)

(S)Cable size (mm²) 0.22~0.35

Cable overall diameter (mm) 0.95~1.4

Material Brass

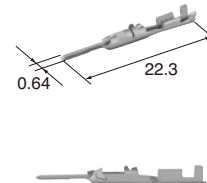
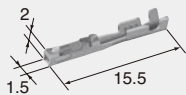
Surface treatment Tin-plated

**(M)**Cable size (mm²) 0.5~0.75

Cable overall diameter (mm) 1.25~1.6

Material Brass

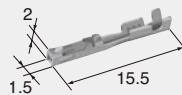
Surface treatment Tin-plated

**C-06****M (8100-4028)****F (8100-4029)**Cable size (mm²) 0.22~0.35

Cable overall diameter (mm) 0.95~1.4

Material Heat-resistant copper alloy

Surface treatment Tin-plated

**M (8100-4027)****F (8100-4030)**Cable size (mm²) 0.5~0.75

Cable overall diameter (mm) 1.25~1.6

Material Heat-resistant copper alloy

Surface treatment Tin-plated

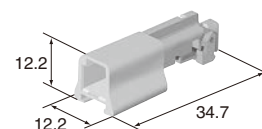
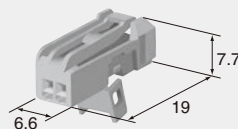
**0.64mm (025)****Housing** (UNIT : mm)

Ref: Terminal part No. C-05

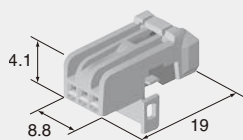
Material PBT

2way

Color Natural

**M (6098-5070)****F (6098-5071)**

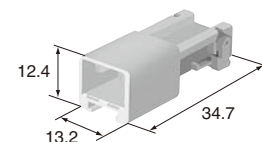
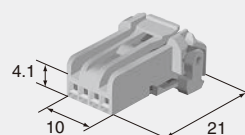
Color Natural

3way**F (6098-5833)**

Color Natural

4way

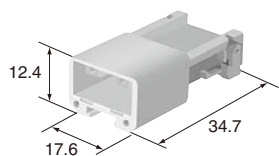
Color Natural

**M (6098-4944)****F (6098-4978)**

Color Natural

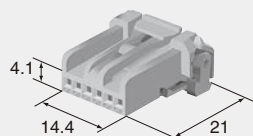
6way

Color Natural



M (6098-4943)

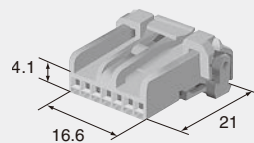
F (6098-4979)



Color Natural

7way

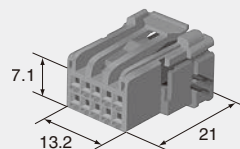
F (6098-5000)



Color Natural

10way

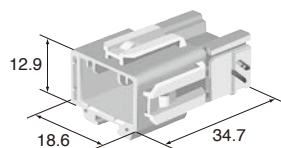
F (6098-4982)



Color Green

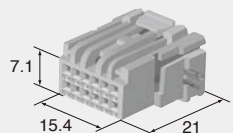
12way

Color Natural



M (6098-4675)

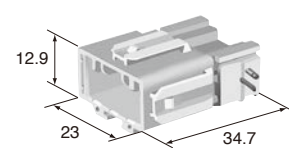
F (6098-4640)



Color Natural

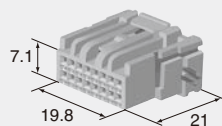
16way

Color Natural



M (6098-4333)

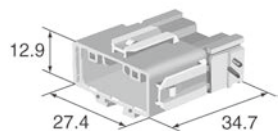
F (6098-4339)



Color Natural

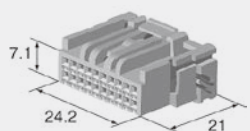
20way

Color Natural



M (6098-4589)

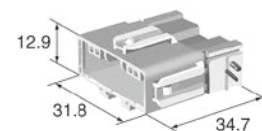
F (6098-4595)



Color Natural

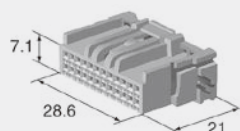
24way

Color Natural



M (6098-4588)

F (6098-4594)



Color Natural

34way

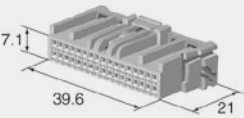
Color Natural



C-08

M (6098-4590)

F (6098-4596)

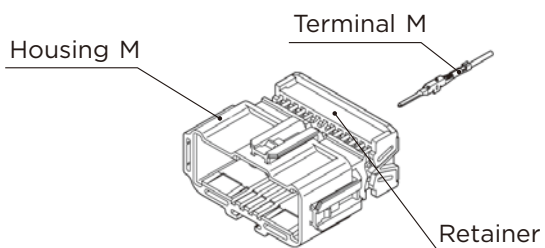


Color Natural

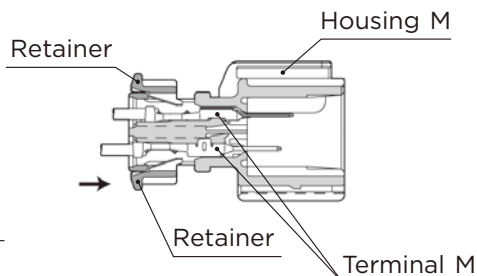
HE SERIES for STANDARD

1.0mm (040)

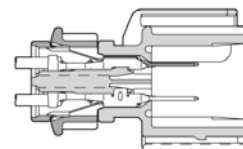
Structure



Before setting retainer

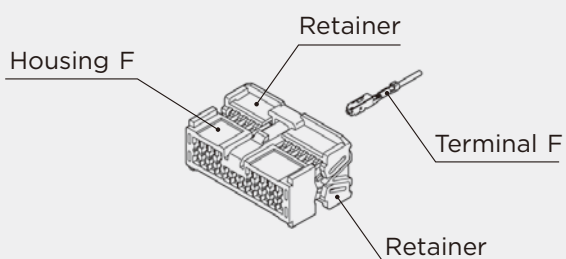


After setting retainer

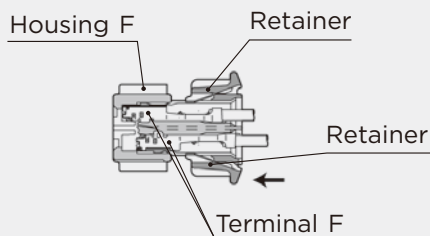


Connector M

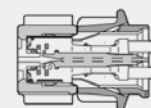
Connector F



Before setting retainer



After setting retainer



1.0mm (040)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

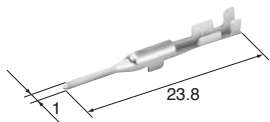
Terminal (UNIT : mm)

(SS)Cable size (mm²) 0.22~0.35

Cable overall diameter (mm) 0.95~1.1

Material Brass

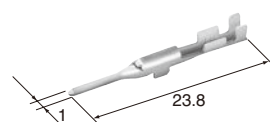
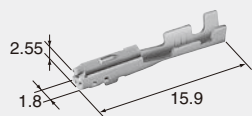
Surface treatment Tin-plated

**(S)**Cable size (mm²) 0.3~0.85

Cable overall diameter (mm) 1.4~1.8

Material Brass

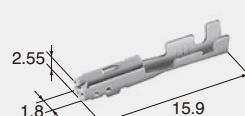
Surface treatment Tin-plated

**C-10****M (8100-4307)****F (8100-4308)**Cable size (mm²) 0.22~0.35

Cable overall diameter (mm) 0.95~1.1

Material Heat-resistant copper alloy

Surface treatment Tin-plated

M (8100-2972)**F (8100-2971)**Cable size (mm²) 0.3~0.85

Cable overall diameter (mm) 1.4~1.8

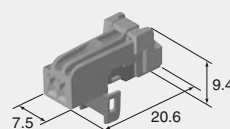
Material Heat-resistant copper alloy

Surface treatment Tin-plated

1.0mm (040)**Housing** (UNIT : mm)

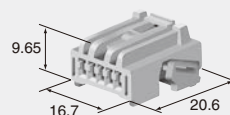
Ref: Terminal part No. C-09

Material PBT

2way**F (6098-5888)**

Color

Light Gray

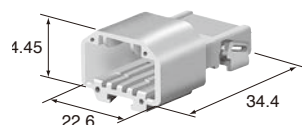
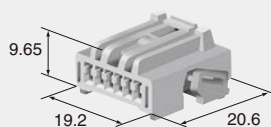
5way**F (6098-2779)**

Color

Natural

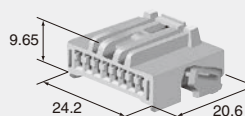
6way

Color Natural

**M (6098-2780)****F (6098-2781)**

Color

Natural

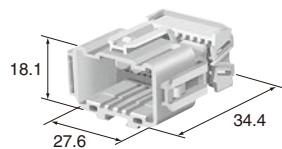
8way**F (6098-2782)**

Color

Natural

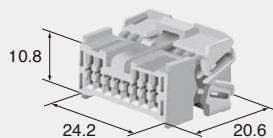
13way

Color Natural



M (6098-2788)

F (6098-2784)

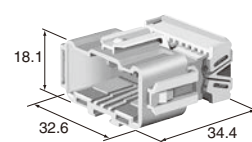


PCB Connector part No. 6098-3239 (C-25)

Color Natural

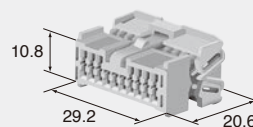
17way

Color Natural



M (6098-3369)

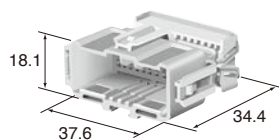
F (6098-2785)



Color Natural

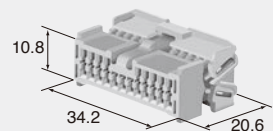
21way

Color Natural



M (6098-2789)

F (6098-2764)



Color Natural

C-11

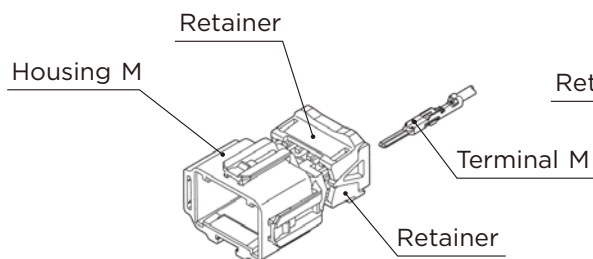
HE SERIES

HE SERIES for STANDARD

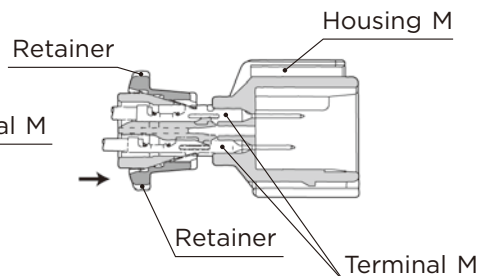
2.3mm (090)

Structure

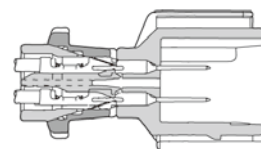
C-12



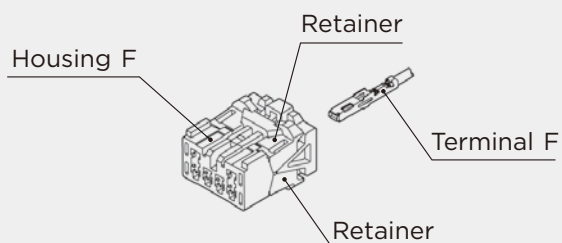
Before setting retainer



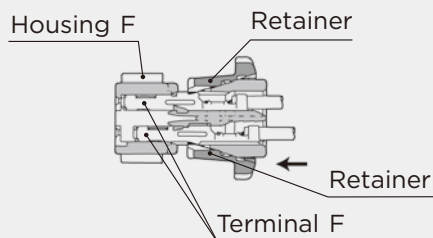
After setting retainer



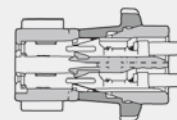
Connector M



Before setting retainer



After setting retainer



Connector F

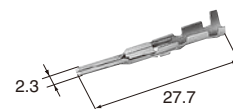
2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

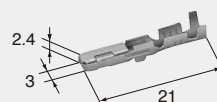
Terminal (UNIT : mm)

(S)

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



M (8100-1571)



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

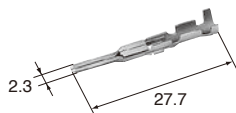
F (8100-1470)

(M)Cable size (mm²) 0.5~1.25

Cable overall diameter (mm) 2.0~2.9

Material Brass

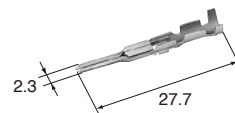
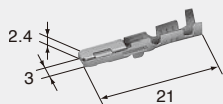
Surface treatment Tin-plated

**(L)**Cable size (mm²) 2.0

Cable overall diameter (mm) 2.6~3.1

Material Brass

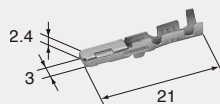
Surface treatment Tin-plated

**M (8100-1573)****F (8100-1472)**Cable size (mm²) 0.5~1.25

Cable overall diameter (mm) 2.0~2.9

Material Brass

Surface treatment Tin-plated

M (8100-1572)**F (8100-1471)**Cable size (mm²) 2.0

Cable overall diameter (mm) 2.6~3.1

Material Heat-resistant copper alloy

Surface treatment Tin-plated

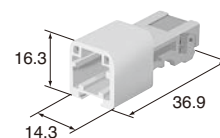
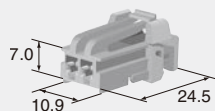
2.3mm (090)**Housing** (UNIT : mm)

Ref: Terminal part No. C-12

Material PBT

2way

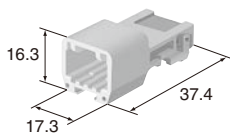
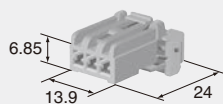
Color Natural

**M (6098-4901)****F (6098-4069)**

Color Natural

3way

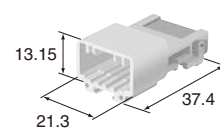
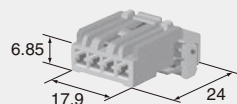
Color Natural

**M (6098-5049)****F (6098-4071)**

Color Natural

4way

Color Natural

**M (6098-4902)****F (6098-4073)**

Color Natural



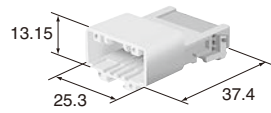
Sumitomo Wiring Systems, Ltd.

C-13

HE SERIES

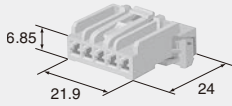
5way

Color Natural



M (6098-4664)

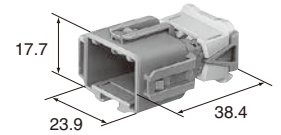
F (6098-4669)



Color Natural

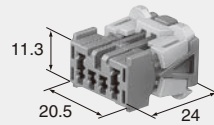
6way

Color Sky Blue



M (6098-1373)

F (6098-1377)

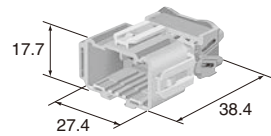


PCB Connector part No. 6098-3616 (C-26)

Color Sky Blue

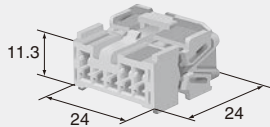
8way

Color Natural



M (6098-4661)

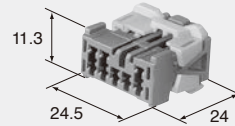
F (6098-4670)



Color Natural

8way

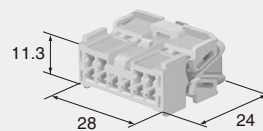
F (6098-1378)



Color Green

10way

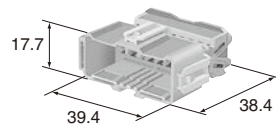
F (6240-5378)



Color Natural

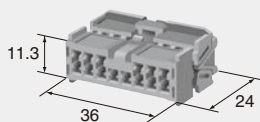
14way

Color Natural



M (6098-4662)

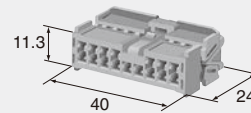
F (6098-4050)



Color Natural

16way

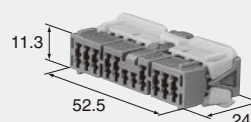
F (6098-3563)



Color Natural

20way

F (6098-1380)



Color Green

HE SERIES for STANDARD

4.8mm (187)

C-15

HE SERIES

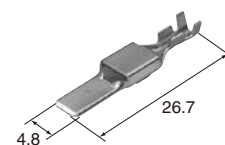
4.8mm (187)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

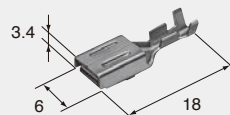
(S)

Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Brass
Surface treatment	Tin-plated



M (8100-1506)

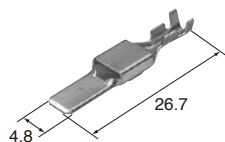
F (8100-1507)



Cable size (mm ²)	0.3
Cable overall diameter (mm)	1.4~1.9
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

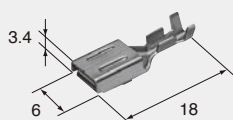
(M)

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



M (8100-0664)

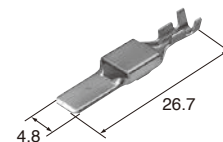
F (8100-0606)



Cable size (mm ²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.9
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

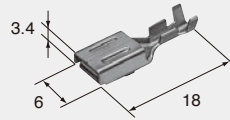
(L)

Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.6~3.8
Material	Brass
Surface treatment	Tin-plated



M (1500-0166)

F (8100-0782)



Cable size (mm ²)	2.0~3.0
Cable overall diameter (mm)	2.6~3.8
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

4.8mm (187)

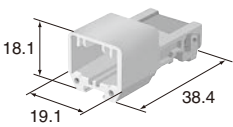
C-16

Housing (UNIT : mm)

Ref: Terminal part No.	C-15
Material	PBT

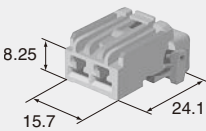
2way

Color	Natural
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M (6098-5120)

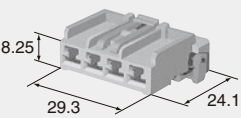
F (6098-5119)



Color	Natural
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4way

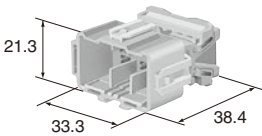
F (6098-4971)



Color	Natural
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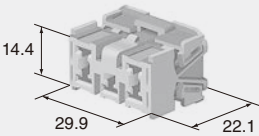
5way

Color	Natural
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M (6098-4663)

F (6098-4667)



Color	Natural
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HE SERIES for STANDARD

9.5mm (375)

C-17

HE SERIES

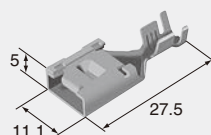
9.5mm (375)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)

F (8240-0152)



Cable size (mm²) 2.0~3.0

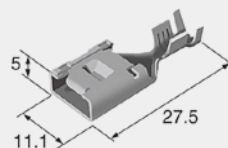
Cable overall diameter (mm) 2.6~4.1

Material Brass

Surface treatment Tin-plated

(M)

F (8240-0153)



Cable size (mm²) 5.0~8.0

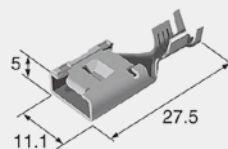
Cable overall diameter (mm) 4.4~5.8

Material Heat-resistant copper alloy

Surface treatment Tin-plated

(L)

F (8240-0154)



Cable size (mm²) 10.0

Cable overall diameter (mm) 6.5~6.9

Material Heat-resistant copper alloy

Surface treatment Tin-plated

9.5mm (375)

Housing (UNIT : mm)

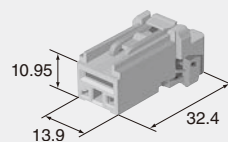
Ref: Terminal part No. C-17

Material PBT

1way

rib A

F (6098-4973)

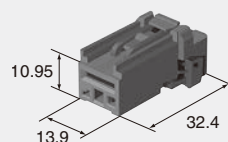


Color Natural

1way

rib B

F (6098-4974)

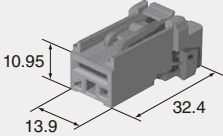


Color Black

1way

rib C

F (6098-4975)

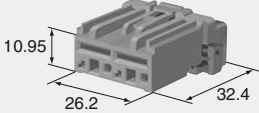


Color

Dark Green

2way

F (6098-4977)



Color

Green

HE SERIES for HYBRID

0.64mm, 2.3mm
(025, 090)

Housing (UNIT : mm)

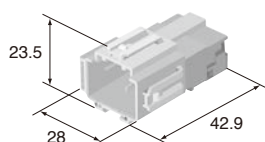
Ref: Terminal part No. [0.64mm] C-05
[2.3mm] C-12

Material PBT

No. of way/ () corresponds to 0.64mm, 2.3mm, in order from left to right.
極数/ () 内表示: 左から0.64mm 極数、2.3mm 極数

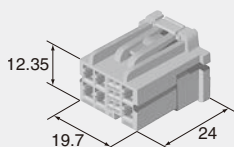
12way (6+6)

Color Natural



M (6098-6161)

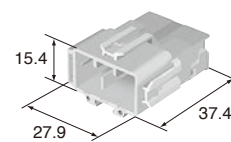
F (6098-6162)



Color Natural

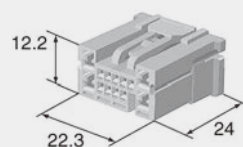
13way (9+4)

Color Natural



M (6098-5180)

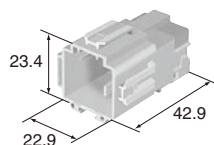
F (6098-6562)



Color Natural

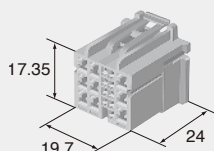
18way (9+9)

Color Natural



M (6098-4908)

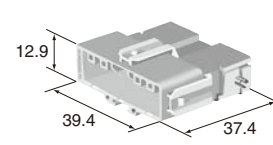
F (6098-6478)



Color Natural

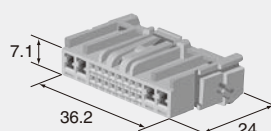
20way (16+4)

Color Natural



M (6098-4591)

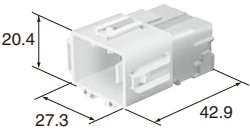
F (6098-4597)



Color Natural

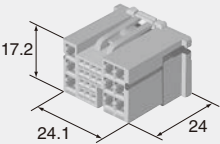
23way (14+9)

Color Natural



M (6098-4707)

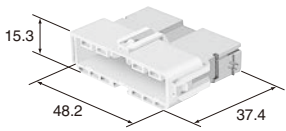
F (6098-6559)



Color Natural

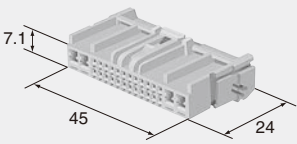
28way (24+4)

Color Natural



M (6098-4725)

F (6098-4726)



Color Natural

**1.0mm, 2.3mm
(040, 090)**

Housing (UNIT : mm)

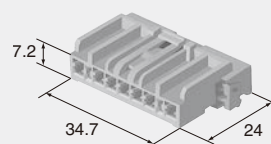
Ref: Terminal part No. [1.0mm] C-09
[2.3mm] C-12

Material PBT

No. of way/ () corresponds to 1.0mm, 2.3mm, in order from left to right.
極数 / () 内表示: 左から1.0mm 極数、2.3mm 極数

9way (2+7)

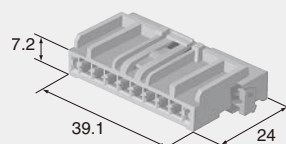
F (6098-4075)



Color Natural

10way (2+8)

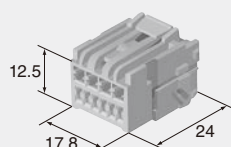
F (6098-4076)



Color Natural

10way (6+4)

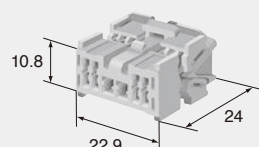
F (6098-4666)



Color Natural

10way (8+2)

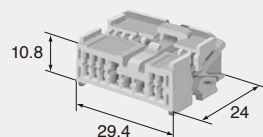
F (6098-3600)



Color Natural

14way (10+4)

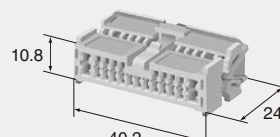
F (6098-3601)



Color Natural

23way (19+4)

F (6098-3571)

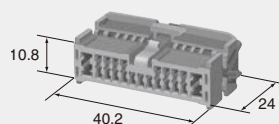


PCB Connector part No. 6098-3572 (C-25)

Color Natural

23way (19+4)

F (6098-4367)



Color Brown

C-21

HE SERIES

1.0mm, 4.8mm
(040, 187)

C-22

Housing (UNIT : mm)

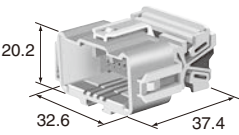
Ref: Terminal part No.	[1.0mm]	C-09
	[4.8mm]	C-15

Material	PBT
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No. of way/ () corresponds to 1.0mm, 4.8mm, in order from left to right.
極数／() 内表示 : 左から1.0mm 極数、4.8mm 極数

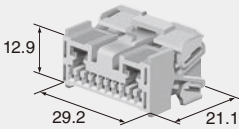
12way (10+2)

Color	Natural
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M (6098-3370)

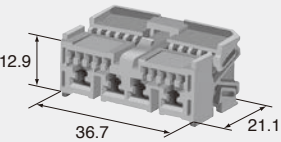
F (6098-2786)



Color	Natural
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14way (10+4)

F (6098-4017)



PCB Connector part No.	6098-4018 (C-26)
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Color	Natural
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2.3mm, 4.8mm
(090, 187)

Housing (UNIT : mm)

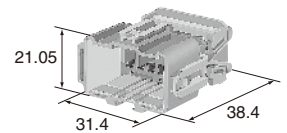
Ref: Terminal part No. [2.3mm] C-12
[4.8mm] C-15

Material PBT

No. of way/ () corresponds to 2.3mm, 4.8mm, in order from left to right.
極数 / () 内表示: 左から2.3mm 極数、4.8mm 極数

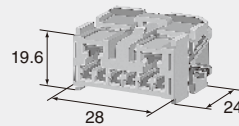
8way (6+2)

Color Natural



M (6098-5218)

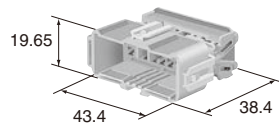
F (6098-5217)



Color Natural

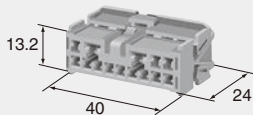
14way (12+2)

Color Natural



M (6098-4660)

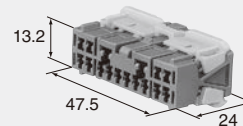
F (6098-3565)



Color Natural

16way (14+2)

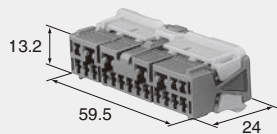
F (6950-1054)



Color Green

20way (16+4)

F (6950-1056)



Color Green

C-23

HE SERIES

8.0mm (312)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

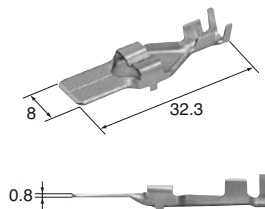
(M)

Cable size (mm²) 2.0~3.0

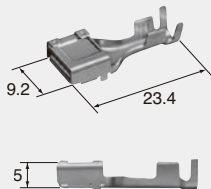
Cable overall diameter (mm) 2.6~4.1

Material Brass

Surface treatment Tin-plated



M (8100-0521)



Cable size (mm²) 2.0~3.0

Cable overall diameter (mm) 2.6~4.1

Material Brass

Surface treatment Tin-plated

F (8100-0706)

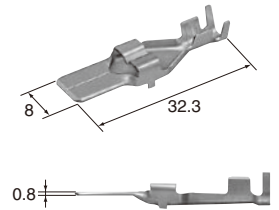
(S)

Cable size (mm²) 0.5~1.25

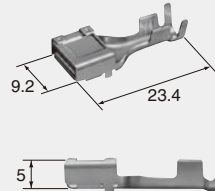
Cable overall diameter (mm) 1.6~2.9

Material Brass

Surface treatment Tin-plated



M (8100-0520)



Cable size (mm²) 0.5~1.25

Cable overall diameter (mm) 1.6~2.9

Material Brass

Surface treatment Tin-plated

F (8100-0707)

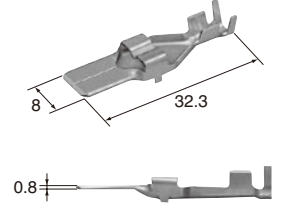
(L)

Cable size (mm²) 5.0~8.0

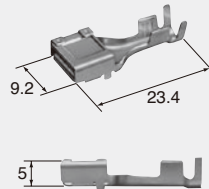
Cable overall diameter (mm) 4.4~5.8

Material Brass

Surface treatment Tin-plated



M (8100-0522)



Cable size (mm²) 5.0~8.0

Cable overall diameter (mm) 4.4~5.8

Material Heat-resistant copper alloy

Surface treatment Tin-plated

F (8100-1553)

4.8mm, 8.0mm (187, 312)

Housing (UNIT : mm)

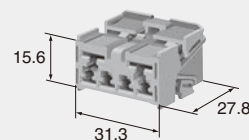
Ref: Terminal part No. [4.8mm] C-15
[8.0mm] C-24

Material PBT

No. of way/ () corresponds to 4.8mm, 8.0mm, in order from left to right.
極数/ () 内表示: 左から4.8mm 極数、8.0mm 極数

6way (4+2)

F (6098-3569)

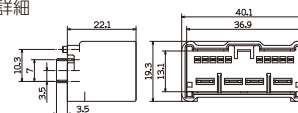


Color Natural

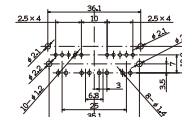
Material	PBT G30
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(Vertical type)

●Detailed dimension
寸法詳細



●Recommended dimension of Circuit board
基板推奨詳細

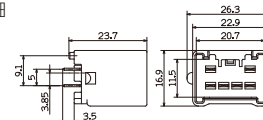


Color Natural

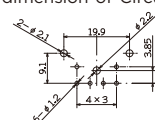
Material	PBT G30
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(Vertical type)

●Detailed dimension
寸法詳細



●Recommended dimension of Circuit board
基板推奨詳細



Color Sky Blue

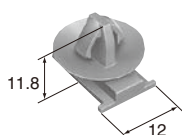
HE SERIES CONNECTOR ACCESSORIES

Mounting Clip

The clip can be installed to connector M, if necessary, to fasten into the body side hole.
Mコネクタには、ボデー側の穴に固定するためのクランプを必要に応じて取付けることができます。

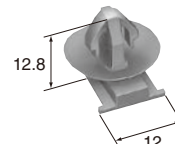
(6810-1203)

Clip fitting hole size(mm)	φ 7
Clip fitting thickness(mm)	t=0.65~1.6
Material	6 Nylon
Color	Red



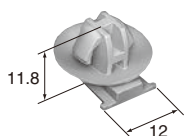
(6810-1217)

Clip fitting hole size(mm)	φ 7
Clip fitting thickness(mm)	t=1.6~2.6
Material	6 Nylon
Color	Brown



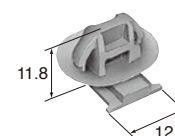
(6810-1204)

Clip fitting hole size(mm)	φ 10
Clip fitting thickness(mm)	t=0.65~1.6
Material	6 Nylon
Color	Natural



(6810-1462)

Clip fitting hole size(mm)	6×12 (Square hole)
Clip fitting thickness(mm)	t=0.65~1.6
Material	6 Nylon
Color	Orange

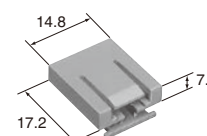


Bracket (for SP stay)

Connector M can be accoupled with clamp, if necessary, to fasten to the body side bracket.
Mコネクタには、ボデー側のブラケットに固定するためのクランプを必要に応じて取付けることができます。

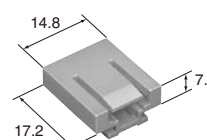
(6910-0119)

Bracket direction	Connector mating direction
Material	6 Nylon
Color	Red



(6910-0120)

Bracket direction	Anti clockwise
Material	6 Nylon
Color	Natural



HV/HVG SEALED SERIES



Features

The HV sealed connector series is an improved version of the existing HX sealed connector series and it is a highly reliable connector series.

Also, the HVG sealed series is what is added a finger holding portion to the side wall of the female connector of the HV sealed series so as to improving matting performance.

It has a mechanism that detects terminal incomplete insertion.

The connector mechanism only allows the TPA/Retainer to be set when the terminal is completely inserted.

These connectors can be directly secured to a stay on the car body.

特 長

HV 防水シリーズは、従来の HX 防水シリーズを改良し、信頼性を向上させたコネクタシリーズです。

また、HVG 防水シリーズは、HV 防水シリーズの F コネクタの側壁に指掛け部を追加し、コネクタ挿入作業性を向上させたものです。

挿入不足のターミナルを検知する機構を備えています。

ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。

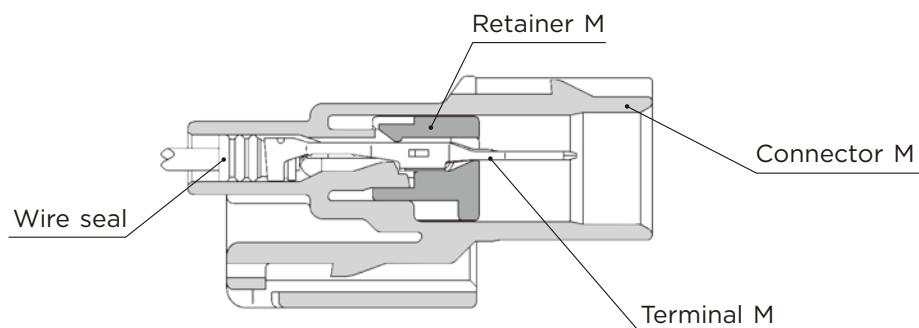
コネクタは、ボデー側のステーに直接固定することができます。

HV/HVG SEALED SERIES for STANDARD

1.0mm (040)

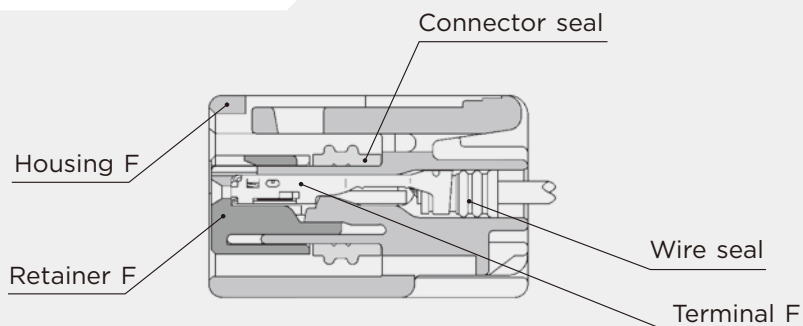
Structure

D-02



Connector M

Connector F



1.0mm (040)

Terminal (UNIT : mm)

Ref; 1.0mm Terminal detail

S	M (8100-3177)	F (8100-3067)	E-03
M	M (8100-3178)	F (8100-3068)	E-03

1.0mm (040)

Wire seals (UNIT : mm)

Ref; 1.0mm Wire Seals detail

SS (7165-1075) E-03

S (7165-0621) E-03

M (7165-0622) E-03

The wire seals are common to M and F.
ワイヤシールはM、F 共用です。

1.0mm (040)

Dummy plugs (UNIT : mm)

Ref; 1.0mm Dummy plug detail

(7165-0432) E-04

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓は M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

1.0mm (040)

Housing (UNIT : mm)

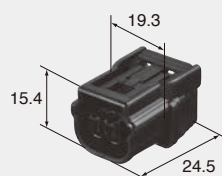
Ref: Terminal part No. E-02

Ref: wire seal No. E-03

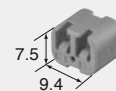
Ref: Dummy plug No. E-04

Material PBT

2way



F (6189-7036)



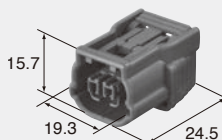
Retainer No. (6918-1835)

Color

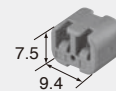
Black

2way

(Coded connector) (リブ違)



F (6189-7052)



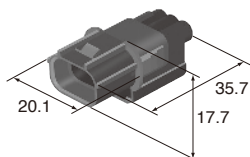
Retainer No. (6918-1835)

Color

Dark Gray

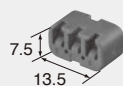
3way

Color Black



M (6188-4775)

F (6189-7037)



Retainer No. (6918-1833)

Color

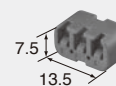
Black

3way

(Coded connector) (リブ違)



F (6189-7058)



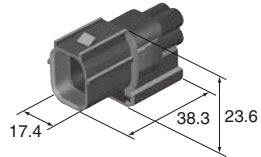
Retainer No. (6918-1833)

Color

Dark Gray

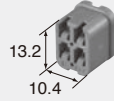
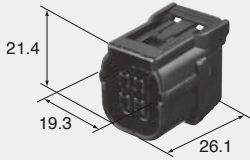
4way

Color Black



M (6188-4776)

F (6189-7039)

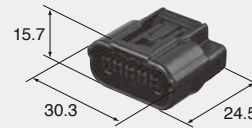


Retainer No. (6918-2810)

Color Black

5way

F (6189-6909)

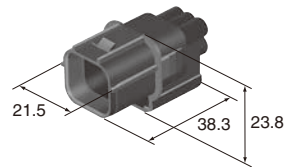


Retainer No. (6918-2128)

Color Black

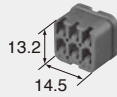
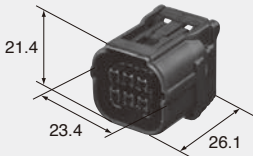
6way

Color Black



M (6188-4908)

F (6189-7040)

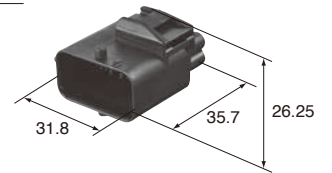
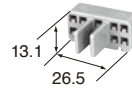


Retainer No. (6918-2913)

Color Black

10way

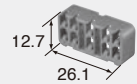
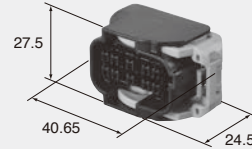
Color Black



Retainer No. (6918-2804)

M (6181-6481)

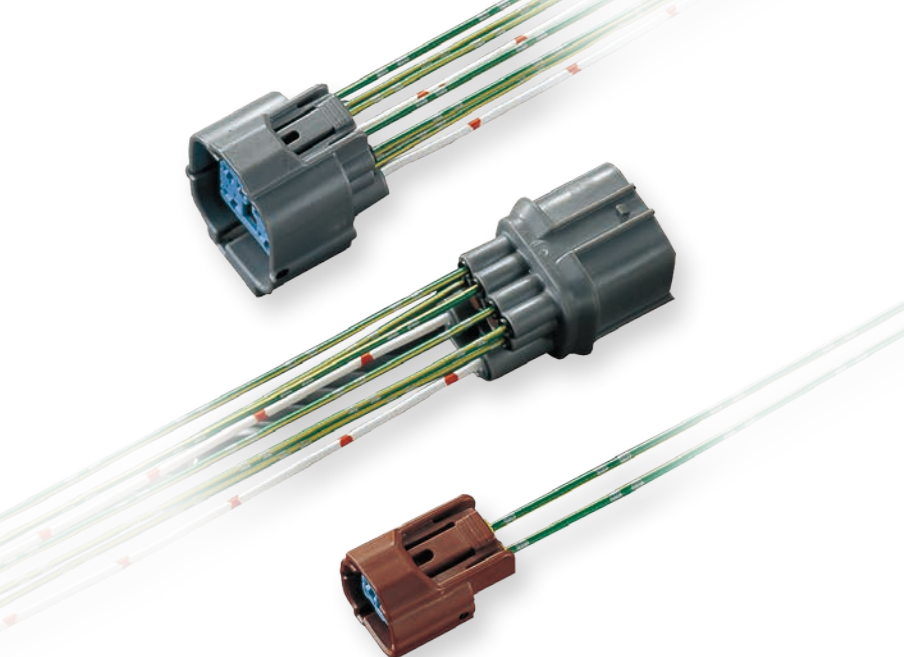
F (6189-6906)



Retainer No. (6918-2806)

Color Black

HX SEALED SERIES



Features

The HX sealed connector series is the highly reliable improved version of the conventional HW sealed series, with a mechanism that detects when terminals are not inserted completely. The connector mechanism only allows the TPA/Retainer to be set when the terminal is completely inserted. The hybrid model can be directly secured to a stay on the car body, but this is only possible when the locking mechanism ensures the connectors are completely engaged, preventing semi engagement.

特 長

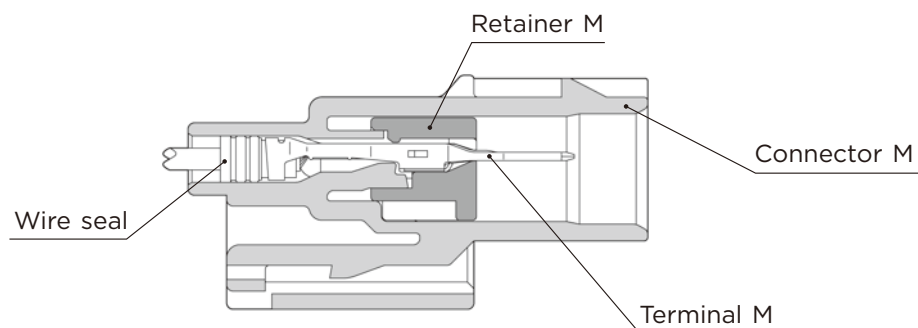
HX 防水シリーズは、従来の HW 防水シリーズを改良し、信頼性を向上させたコネクタシリーズです。挿入不足のターミナルを検知する機構を備えています。ターミナルが半挿入の状態では、フロントホルダー（リテーナ）が装着できない機構になっています。ハイブリッドタイプのコネクタは、完全に嵌合した状態でないと、ボデー側のステーに固定することができないロック構造になっています。ハイブリッドタイプのコネクタは、ボデー側のステーに直接固定することができます。

HX SEALED SERIES for STANDARD

1.0mm (040)

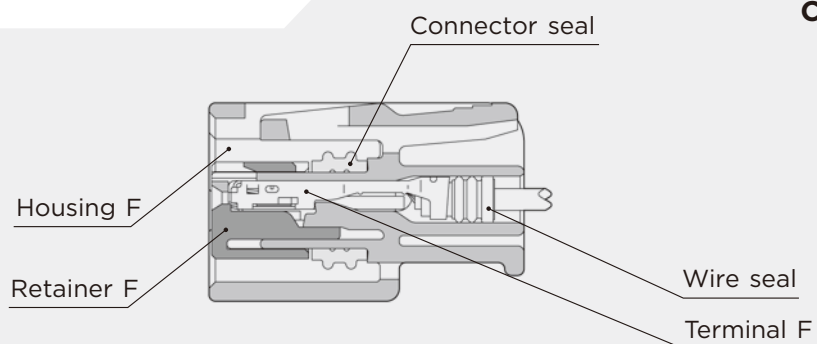
Structure

E-02



Connector M

Connector F



1.0mm (040)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

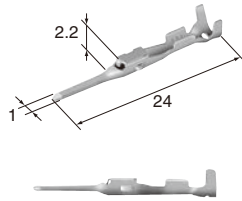
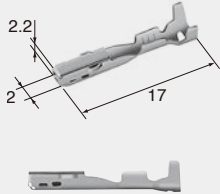
Terminal (UNIT : mm)

(S)Cable size (mm²) 0.3~0.5

Cable overall diameter (mm) 1.4~2.0

Material Brass

Surface treatment Tin-plated

**M (8100-3177)**Cable size (mm²) 0.3~0.5

Cable overall diameter (mm) 1.4~2.0

Material Heat-resistant copper alloy

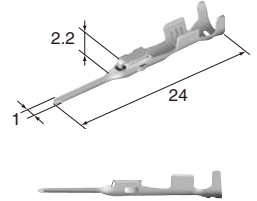
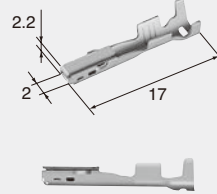
Surface treatment Tin-plated

F (8100-3067)**(M)**Cable size (mm²) 0.75~1.25

Cable overall diameter (mm) 1.8~2.2

Material Heat-resistant copper alloy

Surface treatment Tin-plated

**M (8100-3178)**Cable size (mm²) 0.75~1.25

Cable overall diameter (mm) 1.8~2.2

Material Heat-resistant copper alloy

Surface treatment Tin-plated

F (8100-3068)**1.0mm (040)****Wire seals (UNIT : mm)**

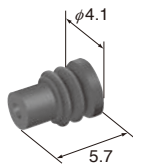
- Male / Female Shared
- M、F 共用です。

(SS)**(7165-1075)**Cable size (mm²) (AVSS/0.3) (AVSSX/0.3) (AVSSH/0.3)
(CHFUS/0.35) (CHFS/0.5)

Cable overall diameter (mm) 1.1~1.6

Material Silicone

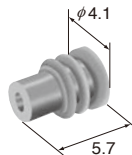
Color Orange

**(S)****(7165-0621)**Cable size (mm²) (AVS/0.3) (AVS/0.5) (AVSSX/0.5)
(AVSSH/0.5) (CHFS/0.75)

Cable overall diameter (mm) 1.6~1.9

Material Silicone

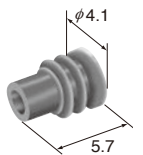
Color Light Green

**(M)****(7165-0622)**Cable size (mm²) (AVS/0.5) (AVS/0.85) (AVSS/0.75~1.25) (AVSSX/0.75~1.25)
(AVSSH/0.75~1.25) (AVX/0.5) (AVX/0.75) (CHFS/1.0)

Cable overall diameter (mm) 1.8~2.2

Material Silicone

Color Violet

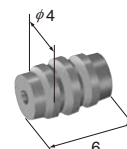


1.0mm (040)

Dummy plugs (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-0432)



Material	NBR
Color	Black

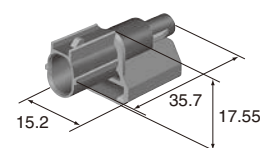
1.0mm (040)

Housing (UNIT : mm)

Ref: Terminal part No.	E-02
Ref: wire seal No.	E-03
Ref: Dummy plug No.	E-04
Material	PBT

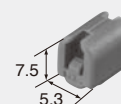
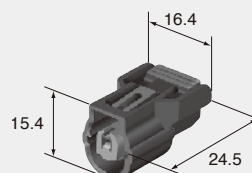
1way

Color	Black
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M (6188-0657)

F (6189-0940)

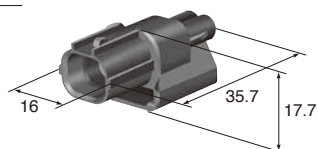


Retainer No. (6918-1979)

Color	Black
-------	-------

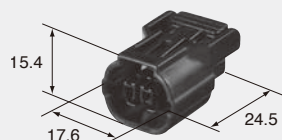
2way

Color	Black
-------	-------



M (6188-0589)

F (6189-0890)



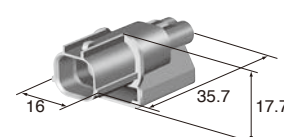
Retainer No. (6918-1835)

Color	Black
-------	-------

2way

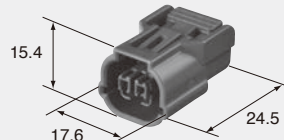
(Coded connector) (リブ違)

Color	Dark Gray
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M (6188-0590)

F (6189-0891)



Retainer No. (6918-1835)

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

3way

Color

Black

M (6188-4739)

F (6189-0887)

Retainer No. (6918-1833)

Color

Black

3way

(Coded connector) (リブ違)

F (6189-0968)

Retainer No. (6918-1833)

Color

Dark Gray

5way

F (6189-1081)

Retainer No. (6918-2128)

Color

Black

6way

Color

Black

M (6188-0658)

F (6189-1012)

Retainer No. (6918-2056)

Color

Black

7way

F (6189-0855)

Retainer No. (6918-1762)

Color

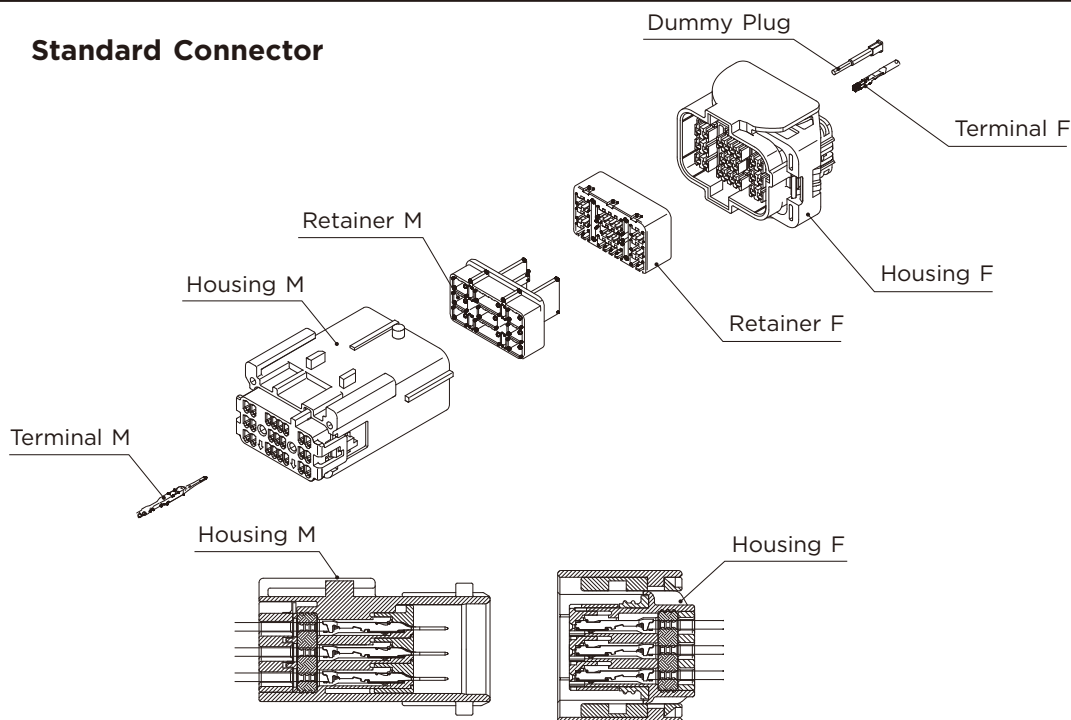
Black

HX SEALED SERIES for 23way and 33way

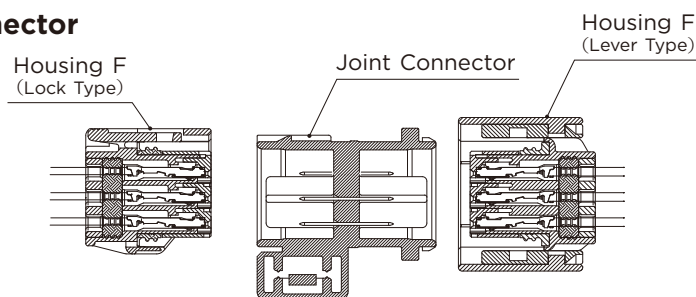
1.0mm (040)

Structure

Standard Connector



Joint Connector



Note : The applicable wire diameter is difference by the terminal insert position. Please kindly obtain instruction manuals from our sales staff.

※本コネクタは端子挿入位置により適用電線が異なりますので注意してください。詳細は取扱説明書をご覧ください。

1.0mm (040)

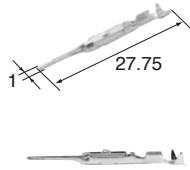
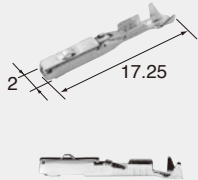
(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)Cable size (mm²) 0.3~0.5

Material Brass

Surface treatment Tin-plated

**M (8100-3508)****F (8100-3082)**Cable size (mm²) 0.3~0.5

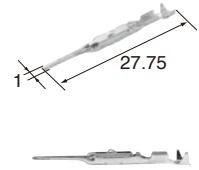
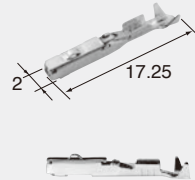
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(M)Cable size (mm²) 0.75~1.25

Material Heat-resistant copper alloy

Surface treatment Tin-plated

**M (8100-3507)****F (8100-3083)**Cable size (mm²) 0.75~1.25

Material Heat-resistant copper alloy

Surface treatment Tin-plated

E-07

HX SEALED SERIES

1.0mm (040)**Dummy plugs** (UNIT : mm)

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(6914-0050)

Material PP

Color Brown

**1.0mm (040)****Housing** (UNIT : mm)

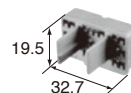
Ref: Terminal part No. E-06

Ref: Dummy plug No. E-07

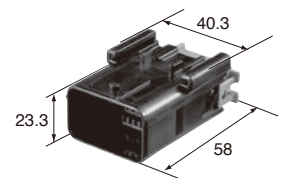
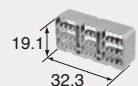
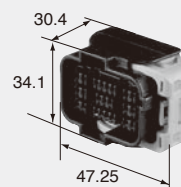
Material PBT

23way

Color Black



Retainer No. (6918-2131)

**M (6188-0660)****F (6189-1082)**

Retainer No. (6918-2132)

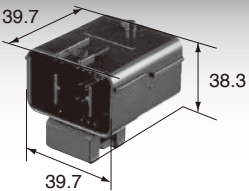
Color Black

E-08

23way

Joint Connector

Coupling circuit is connected with busbars as shown gray hatched cavities.
灰色部のキャビティがバスバーでジョイントされています。

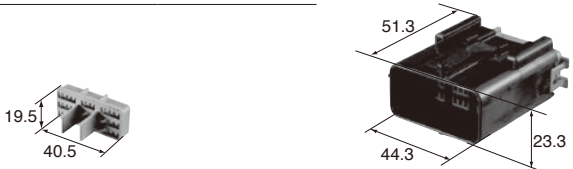


M (6188-4787)	M (6188-4789)	M (5010-8627)	M (5011-1590)	M (5011-6687)
Color Black	Color Dark Gray	Color Dark Blue	Color Brown	Color Blue

F (6189-1082)	Lever		Lock	F (6189-6914)
Color Black	Retainer No. (6918-2132)		Color Black	Retainer No. (6918-2132)

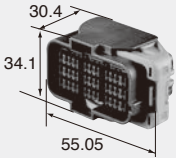
33way

Color Black



Retainer No. (6918-2103)

M (6188-0697) **F (6189-1050)**



Retainer No. (6918-2104)

Color Black

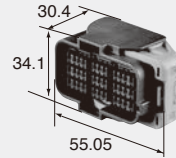
33way (Coded connector) (リブ違)

Color Dark Gray



Retainer No. (6918-2103)

M (6188-0698) **F (6189-1051)**



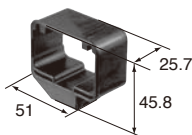
Retainer No. (6918-2104)

Color Dark Gray

Connector Holder **(6920-0886)**

Material 66NY

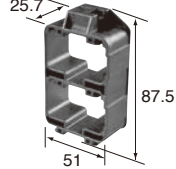
Color Black



Connector Holder **(6920-0861)**

Material 66NY

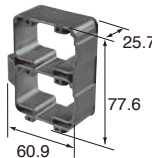
Color Black



Connector Holder **(6920-2376)**

Material 66NY

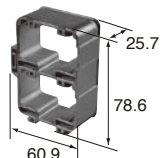
Color Dark Blue



Connector Holder **(6920-2377)**

Material 66NY

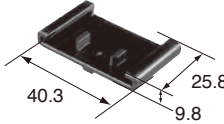
Color Black



Connector Holder **(6920-0884)**

Material 66NY

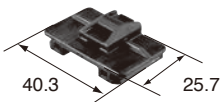
Color Black



Connector Holder **(6920-2466)**

Material 66NY

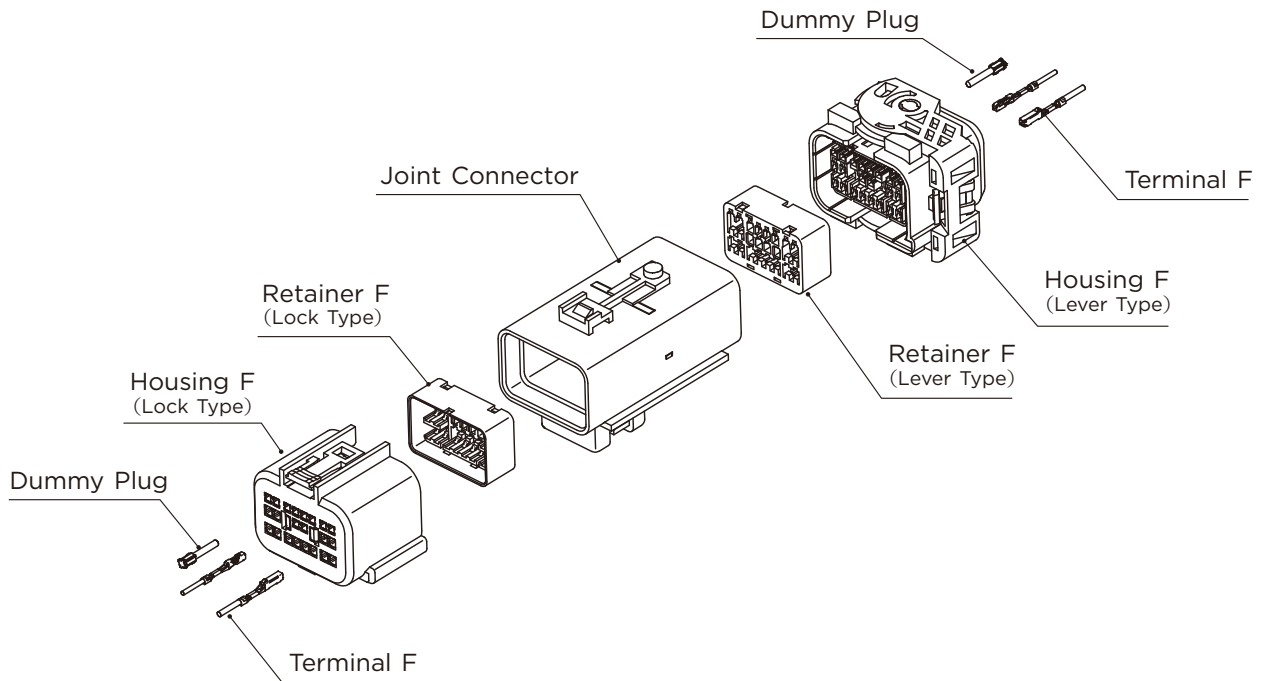
Color Black



HX SEALED SERIES 22way Joint Connector

HYBRID 0.64mm,1.0mm (025, 040)

Structure



0.64mm (025)

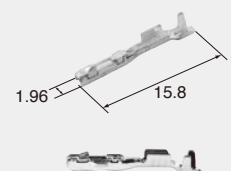
(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(SS)

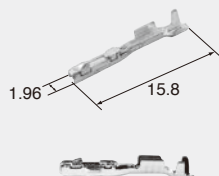
F (8240-0408)

Cable size (mm ²)	AVSSH0.22
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

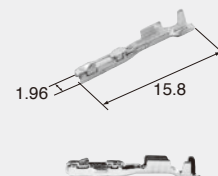


(S)**F (8240-0409)**

Cable size (mm²)	AVSSH0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**(M)****F (8240-0410)**

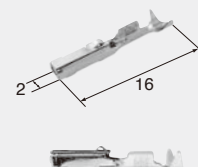
Cable size (mm²)	AVSSH0.75
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**1.0mm (040)**

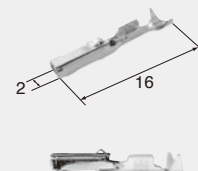
(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)**(S)****F (8240-0411)**

Cable size (mm²)	AVSSH0.3 ~ AVSSH0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**(M)****F (8240-0412)**

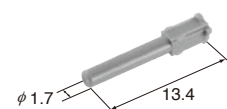
Cable size (mm²)	AVSSH0.75 ~ AVSSH1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**0.64mm, 1.0mm (025, 040)****Dummy plugs (UNIT : mm)**

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(6914-0127)

Material	PBT
Color	Blue

**E-11**

HX SEALED SERIES

0.64mm, 1.0mm
(025, 040)

E-12

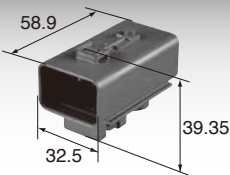
Housing (UNIT : mm)

Ref: Terminal part No.	[0.64mm]	E-10
	[1.0mm]	E-11
Ref: Dummy plug No.	[0.64mm]	E-11
	[1.0mm]	E-11
Material	PBT	

22way (10+12) Joint Connector

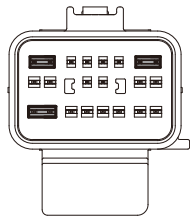
Coupling circuit is connected with busbars as shown gray hatched cavities.

灰色部のキャビティがバスバーでジョイントされています。



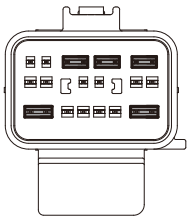
M (5011-6818)

Color Brown



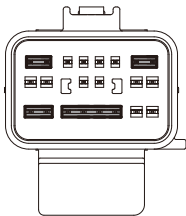
M (5011-7740)

Color Black

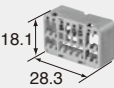
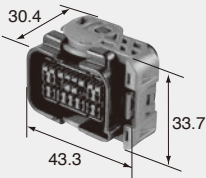


M (5011-7860)

Color Dark Gray

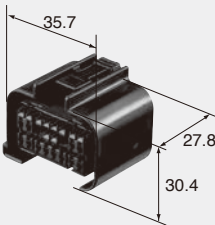


F (6189-7264) Lever

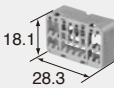


Retainer No. (6918-3166)

Color Black



Lock F (6189-7263)



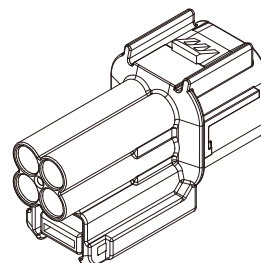
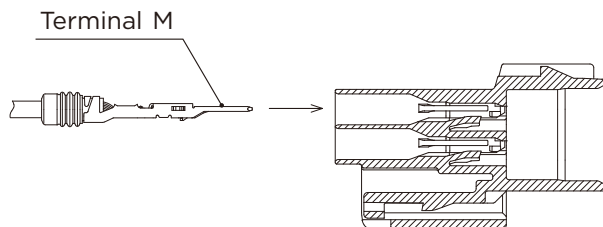
Retainer No. (6918-3166)

Color Black

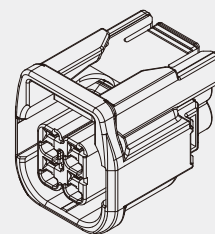
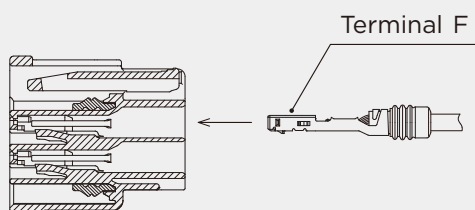
HX SEALED SERIES for STANDARD

1.5mm (060)

Structure



Housing M



Housing F

E-13

HX SEALED SERIES

1.5mm (060)

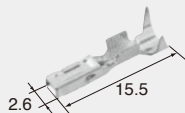
(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(SS)Cable size (mm²) 0.13~0.22

Material Brass

Surface treatment Tin-plated

**M (8230-5306)****F (8240-0489)**Cable size (mm²) 0.13~0.22

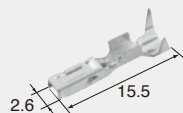
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(S)Cable size (mm²) 0.3~0.5

Material Brass

Surface treatment Tin-plated

**M (8230-5307)****F (8240-0490)**Cable size (mm²) 0.3~0.5

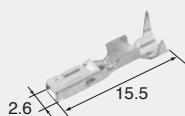
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(M)Cable size (mm²) 0.75~1.25

Material Brass

Surface treatment Tin-plate

**M (8230-5308)****F (8240-0491)**Cable size (mm²) 0.75~1.25

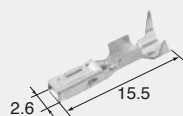
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(L)Cable size (mm²) 2.0

Material Brass

Surface treatment Tin-plated

**M (8230-5309)****F (8240-0492)**Cable size (mm²) 2.0

Material Heat-resistant copper alloy

Surface treatment Tin-plated

1.5mm (O60)**Wire seals (UNIT : mm)**

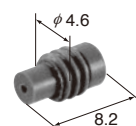
- Male / Female Shared
- M、F 共用です。

(SS)**(7165-1562)**

Cable overall diameter (mm) 0.85~1.2

Material Silicone

Color Violet

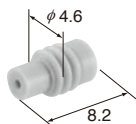


(S)**(7165-1563)**

Cable overall diameter(mm) 1.05~1.5

Material Silicone

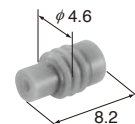
Color Sky Blue

**(M)****(7165-1564)**

Cable overall diameter(mm) 1.35~1.9

Material Silicone

Color Light Green

**(L)****(7165-1565)**

Cable overall diameter(mm) 1.75~2.4

Material Silicone

Color Blue

**(LL)****(7165-1566)**

Cable overall diameter(mm) 2.4~3

Material Silicone

Color Dark Yellow

**E-15**

HX SEALED SERIES

1.5mm (O60)

Dummy plugs (UNIT : mm)

Ref; 1.5mm Dummy plug detail

(7165-0193) K-07

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

1.5mm (O60)

Housing (UNIT : mm)

Ref: Terminal part No. E-13

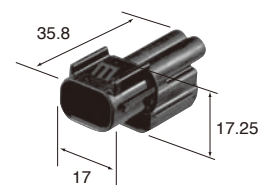
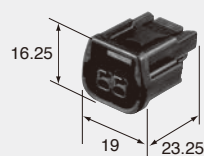
Ref: wire seal No. E-14

Ref: Dummy plug No. K-07

Material PBT

2way

Color Black

**M (6181-6851)****F (6189-7408)**

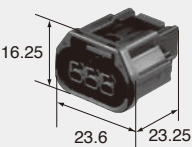
Color Black



Sumitomo Wiring Systems, Ltd.

3way

F (6189-7494)



16.25
23.6
23.25

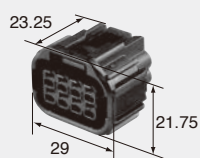
Color

Black

8way

M (6181-6850)

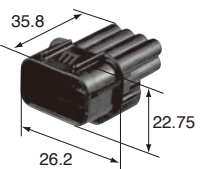
F (6189-7423)



23.25
29
21.75

Color

Black

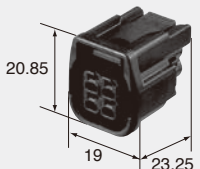


35.8
26.2
22.75

4way

M (6181-6783)

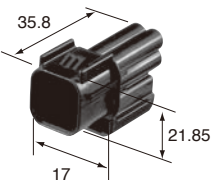
F (6189-7409)



20.85
19
23.25

Color

Black

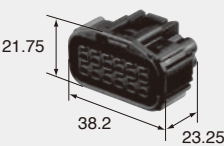


35.8
17
21.85

12way

M (6181-6784)

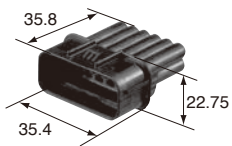
F (6189-7410)



21.75
38.2
23.25

Color

Black

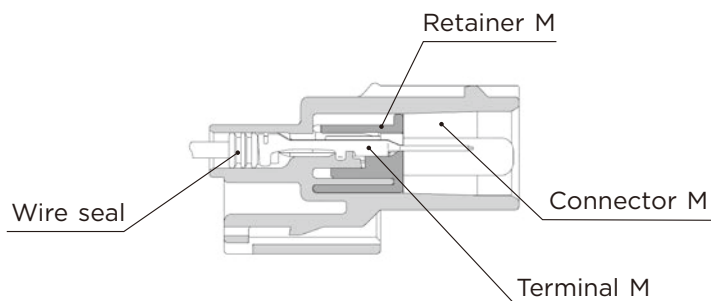


35.8
35.4
22.75

HX SEALED SERIES for STANDARD

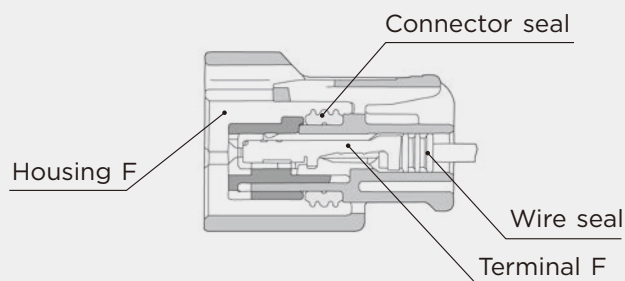
2.3mm (090)

Structure



Connector M

Connector F



2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

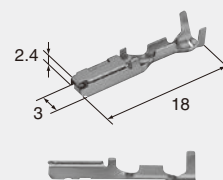
Ref; 2.3mm Terminal detail

S	M (8230-4472)	M-03
M	M (8230-4562)	M-03
L	M (8230-4552)	M-03

(S)

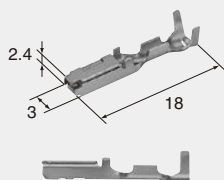
Cable size (mm²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.4
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

F (8240-4862)

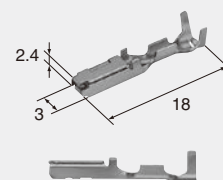


(M)**F (8240-4992)**

Cable size (mm ²)	0.75~0.85
Cable overall diameter(mm)	1.8~2.6
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**(L)****F (8240-4952)**

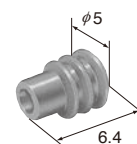
Cable size (mm ²)	1.25~2.0
Cable overall diameter(mm)	2.1~2.9
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**2.3mm (090)****Wire seals (UNIT : mm)**

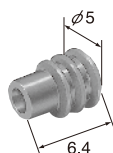
- Male / Female Shared
- M、F 共用です。

(SS)**(7165-0385)**

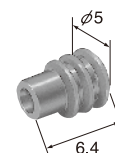
Cable size (mm ²)	(AVSS/0.3~0.5) (AVSSX/0.5)
Cable overall diameter(mm)	1.2~1.7
Material	Silicone
Color	Light Gray

**(S)****(7165-0194)**

Cable size (mm ²)	(AV/0.5) (AVX·AEX/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	Silicone
Color	Dark Green

**(M)****(7165-0198)**

Cable size (mm ²)	(AV/0.5~1.25) (AVX·AEX/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	Silicone
Color	Yellow

**2.3mm (090)****Dummy plugs (UNIT : mm)**

Ref; 2.3mm Dummy plug detail

(7165-0193) K-07

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不要なターミナル穴を塞ぐために、ダミー栓を使用します。

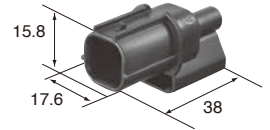
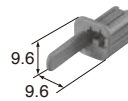
2.3mm (090)

Housing (UNIT : mm)

Ref: Terminal part No.	E-17
Ref: wire seal No.	E-18
Ref: Dummy plug No.	K-07
Material	PBT

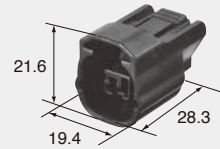
1way

Color Black

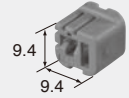


Retainer No. (6918-2665)

M (6181-0803)



F (6189-0591)

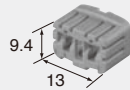
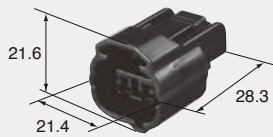


Retainer No. (6918-1370)

Color Black

2way

F (6189-0552)



Note)

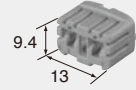
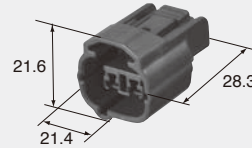
Retainer No. (6918-1260)

Color Black

2way

(Coded connector) (リブ違)

F (6189-0593)



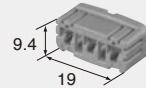
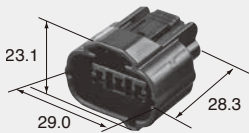
Note)

Retainer No. (6918-1260)

Color Brown

3way

F (6189-0596)



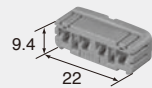
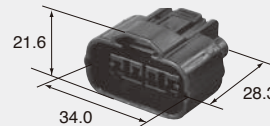
Note)

Retainer No. (6918-1371)

Color Black

4way

F (6189-0617)



Note)

Retainer No. (6918-1469)

Color Black

HX SEALED SERIES for HYBRID

4.8mm (187)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

Ref; 4.8mm Terminal detail

S	M (8100-0463)	B-20
M	M (8100-0464)	B-21
L	M (8100-0465)	F (8100-0468) B-21

4.8mm (187)

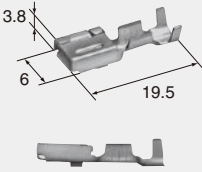
Wire seals (UNIT : mm)

- Male / Female Shared
- M、F 共用です。

(S)

Cable size (mm²)	0.3~0.5
Cable overall diameter (mm)	1.4~2.4
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

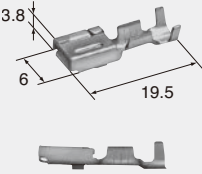
F (8100-0661)



(M)

Cable size (mm²)	0.5~1.25
Cable overall diameter (mm)	1.6~2.6
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

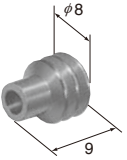
F (8100-0660)



(S)

Cable size (mm²)	(AVS/0.3) (AVSS/0.3~0.85) (AVSSX/0.5~0.75)
Cable overall diameter (mm)	1.4~1.9
Material	NBR
Color	Brown

(7165-0172)



(M)

Cable size (mm²)	(AV/0.5~1.25) (AVX/0.5~1.25) (AVS/0.3~1.25) (AVSS/0.85~2.0) (AVSSX/0.75~2.0)
Cable overall diameter (mm)	1.8~2.9
Material	NBR
Color	Gray

(7165-0130)



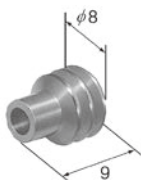
(L)**(7165-0131)**

Cable size (mm²) (AV/2.0~3.0) (AVX/2.0~3.0)
(AVS/2.0~3.0)

Cable overall diameter(mm) 3.0~4.1

Material NBR

Color Black

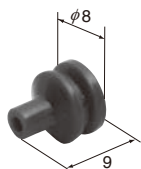
**(M)****(7165-0147)**

Cable size (mm²) (AVS/0.3~1.25)

Cable overall diameter(mm) 1.8~2.9

Material Silicone

Color Dark Green

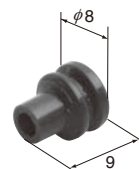
**(L)****(7165-0148)**

Cable size (mm²) (AVS/2.0~3.0)

Cable overall diameter(mm) 3.0~4.1

Material Silicone

Color Dark Blue



1.0mm, 4.8mm
(040, 187)

Housing (UNIT : mm)

Ref: Terminal part No. [1.0mm] E-02
[4.8mm] E-20

Ref: wire seal No. [1.0mm] E-03
[4.8mm] E-20

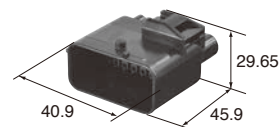
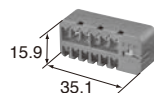
Ref: Dummy plug No. [1.0mm] E-04
[4.8mm] B-22

Material PBT

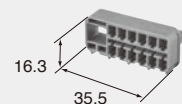
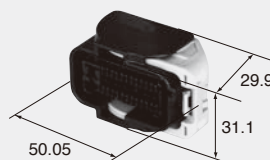
No. of way/ () corresponds to 1.0mm, 4.8mm, in order from left to right.
極数/ () 内表示: 左から1.0mm 極数、4.8mm 極数

13way (12+1)

Color Black



Retainer No. (6181-6465)

M (6181-6464)**F (6189-6863)**

Retainer No. (6185-4596)

Color Black

1.5mm, 4.8mm
(060, 187)

Housing (UNIT : mm)

Ref: Terminal part No. [1.5mm] E-13
[4.8mm] E-20

Ref: wire seal No. [1.5mm] E-14
[4.8mm] E-20

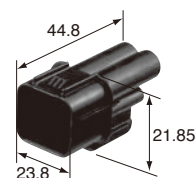
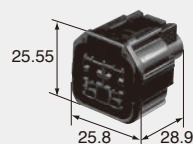
Ref: Dummy plug No. [1.5mm] K-04
[4.8mm] B-22

Material PBT

No. of way/ () corresponds to 1.5mm, 4.8mm, in order from left to right.
極数/ () 内表示: 左から1.5mm 極数、4.8mm 極数

4way (2+2)

Color Black

**M (6181-6785)****F (6189-7411)**

Color Black



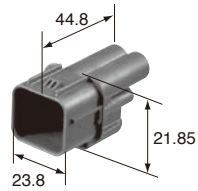
Sumitomo Wiring Systems, Ltd.

E-21

HX SEALED SERIES

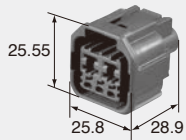
5way (3+2)

Color Dark gray



M (6181-6921)

F (6189-7567)



Color Dark gray

2.3mm, 4.8mm (090, 187)

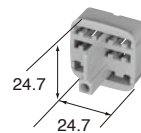
Housing (UNIT : mm)

Ref: Terminal part No.	[2.3mm]	E-17
	[4.8mm]	E-20
Ref: wire seal No.	[2.3mm]	E-18
	[4.8mm]	E-20
Ref: Dummy plug No.	[2.3mm]	K-07
	[4.8mm]	B-22
Material	PBT	

No. of way/ () corresponds to 2.3mm, 4.8mm, in order from left to right.
極数 / () 内表示 : 左から2.3mm 極数、4.8mm 極数

10way (8+2)

Color Dark gray

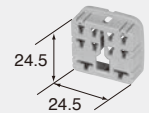
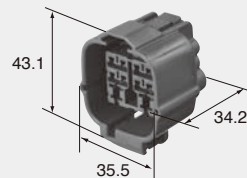


Retainer No. (6918-1263)



M (6181-0381)

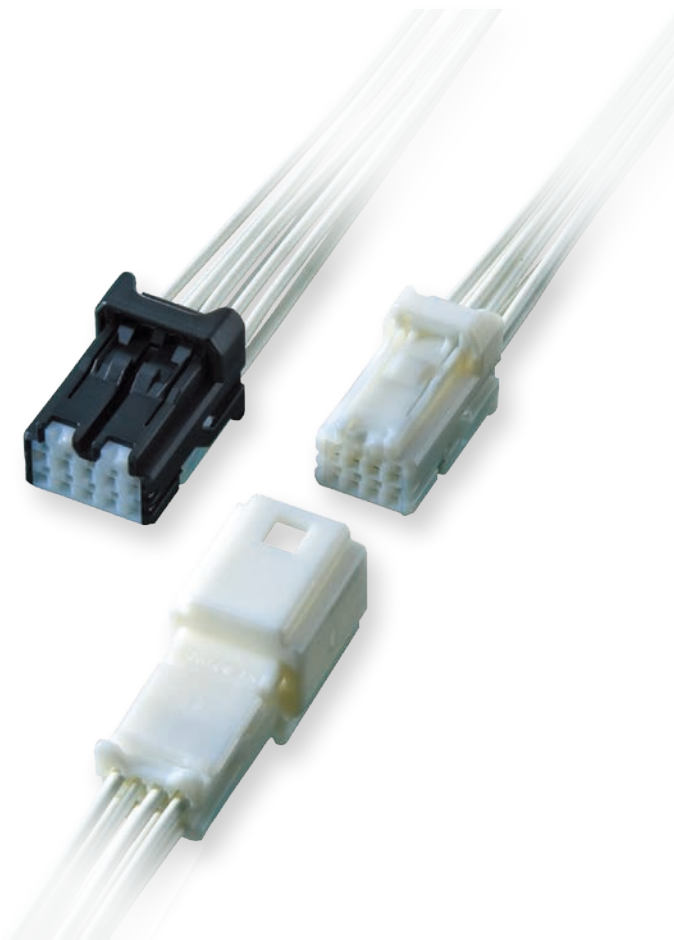
F (6189-0555)



Retainer No. (6918-1267)

Color Dark gray

NH SERIES



Features

The NH series connector is a highly reliable for connector mating and terminal insertion. The front mask of Female connector assists allure male terminal.

By setting TPA (Terminal Position Assurance) adjust the incomplete inserted terminal to the correct position.

An extra clip can be attached to the connector housing to secure it to the body.

特 長

NH シリーズは、コネクタ嵌合、ターミナル抜け等において信頼性を向上させたコネクタです。

メスコネクタは、フロントマスクの採用により、コネクタ嵌合時のオス端子誘い込み性が向上しております。

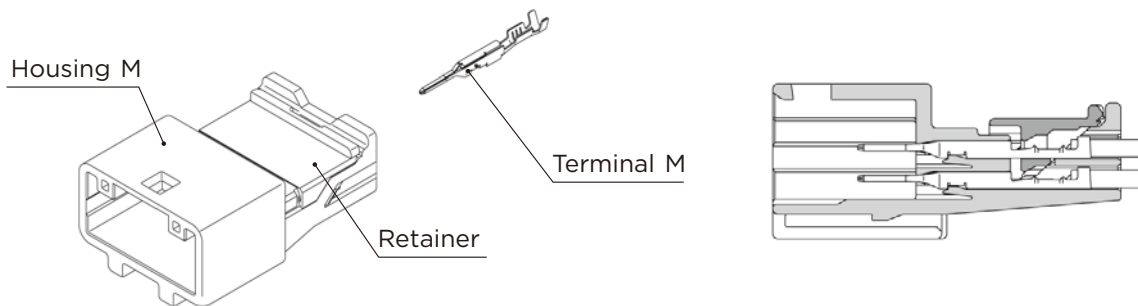
挿入不足のターミナルは、リテーナをセットすることにより正規の位置に固定されます。

コネクタハウジングにはボデーに固定するためのクリップを装着することができます。

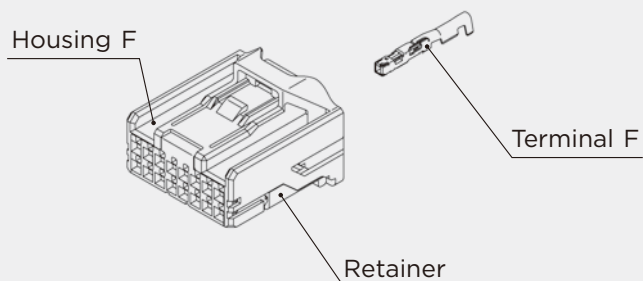
NH SERIES for STANDARD

0.64mm (025)

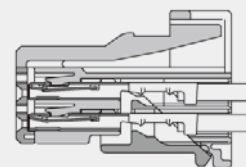
Structure



Connector M



Connector F



0.64mm (025)

Terminal (UNIT : mm)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

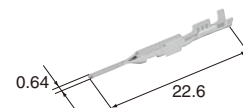
(S)

Cable size (mm ²)	0.22~0.5
Material	Brass
Surface treatment	Tin-plated



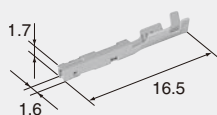
(M)

Cable size (mm ²)	0.75
Material	Brass
Surface treatment	Tin-plated



M (8230-5379)

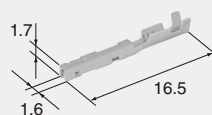
F (8240-0552)



Cable size (mm ²)	0.22~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

M (8230-5380)

F (8240-0523)



Cable size (mm ²)	0.75
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

0.64mm (025)

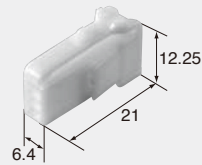
Housing (UNIT : mm)

Ref: Terminal part No. F-02

Material PBT

3way

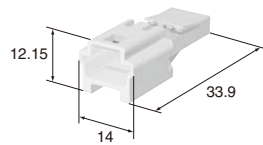
F (6098-7063)



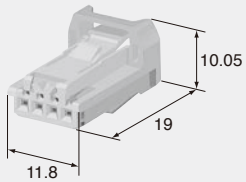
Color Natural

4way

Color Natural



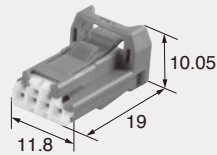
M (6098-5310) TH04MW-NH TH04FW-NH F (6098-5267)



Color Natural

4way

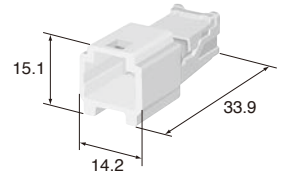
TH04FL-NH F (6098-8861)



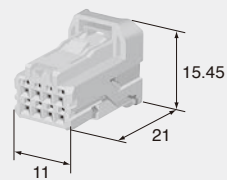
Color Blue

8way

Color Natural



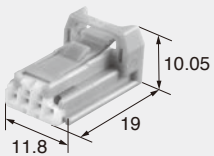
M (6098-5271) TH08MW-NH TH08FW-NH F (6098-5269)



Color Natural

4way

TH04FGY-NH F (6098-8862)

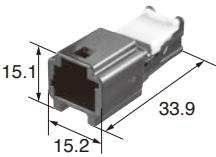


Color Gray

8way

Color

Black



15.1

33.9

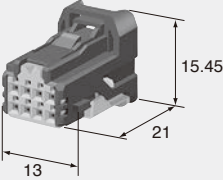
15.2

M (6098-8327)

TH08MB-NH

TH08FB-NH

F (6098-6451)



15.45

21

13

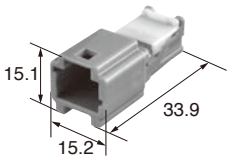
Color

Black

8way

Color

Gray



15.1

33.9

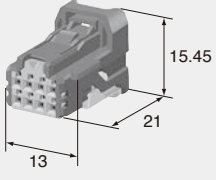
15.2

M (6098-8328)

TH08MGY-NH

TH08FGY-NH

F (6098-6452)



15.45

21

13

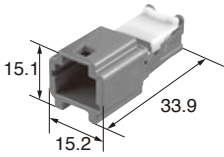
Color

Gray

8way

Color

Blue



15.1

33.9

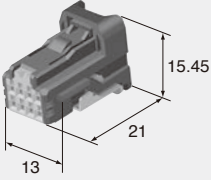
15.2

M (6098-8329)

TH08ML-NH

TH08FL-NH

F (6098-6522)



15.45

21

13

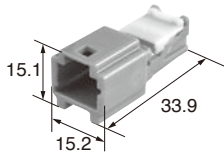
Color

Blue

8way

Color

Green



15.1

33.9

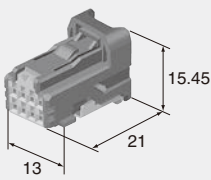
15.2

M (6098-8330)

TH08MG-NH

TH08FG-NH

F (6098-6523)



15.45

21

13

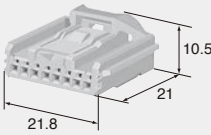
Color

Green

8way

TH08FW-1V-NH

F (6098-5312)



10.5

21

21.8

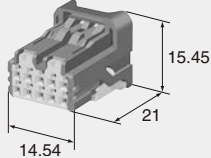
Color

Natural

10way

TH10FB-NH

F (6098-5273)



15.45

21

14.54

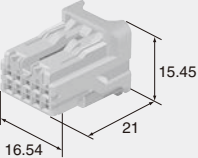
Color

Black

10way

TH10FW-NH

F (6098-7066)



15.45

21

16.54

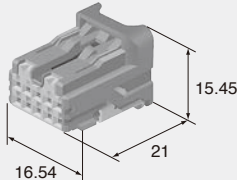
Color

Natural

10way

TH10FGY-NH

F (6098-7067)



15.45

21

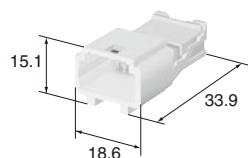
16.54

Color

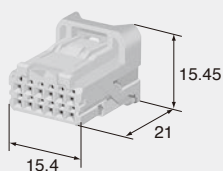
Gray

12way

Color Natural



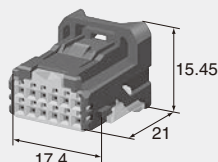
M (6098-5277) TH12MW-NH TH12FW-NH **F (6098-5275)**



Color Natural

12way

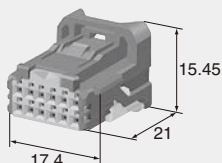
TH12FB-NH **F (6098-6455)**



Color Black

12way

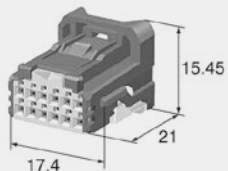
TH12FGY-NH **F (6098-6456)**



Color Gray

12way

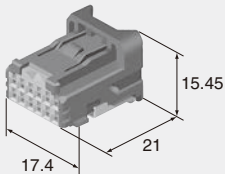
TH12FL-NH **F (6098-6457)**



Color Blue

12way

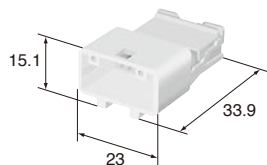
TH12FG-NH **F (6098-6524)**



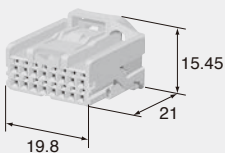
Color Green

16way

Color Natural



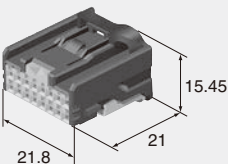
M (6098-5281) TH16MW-NH TH16FW-NH **F (6098-5279)**



Color Natural

16way

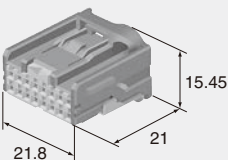
TH16FB-NH **F (6098-7099)**



Color Black

16way

TH16FGY-NH **F (6098-7100)**



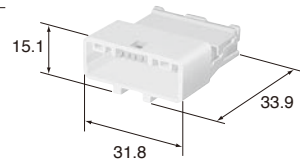
Color Gray

F-05

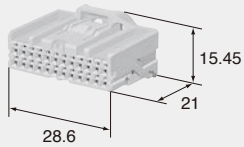
NH SERIES

24way

Color Natural



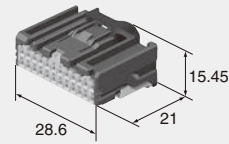
M (6098-5285) TH24MW-NH **TH24FW-NH F (6098-5283)**



Color Natural

24way

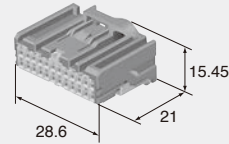
TH24FB-NH **F (6098-7060)**



Color Black

24way

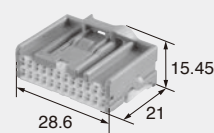
TH24FGY-NH **F (6098-7061)**



Color Gray

24way

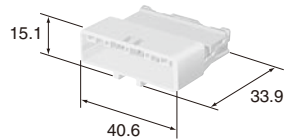
TH24FG-NH **F (6099-0055)**



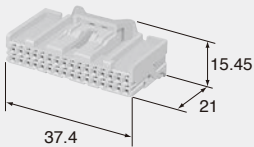
Color Green

32way

Color Natural



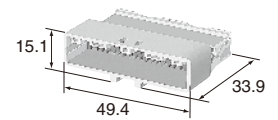
M (6098-5289) TH32MW-NH **TH32FW-NH F (6098-5287)**



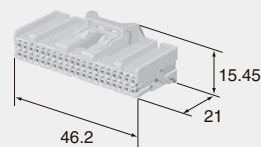
Color Natural

40way

Color Natural



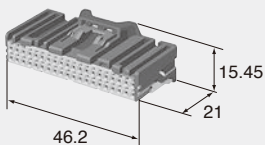
M (6098-5585) TH40MW-NH **TH40FW-NH F (6098-5291)**



Color Natural

40way

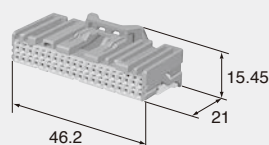
TH40FB-NH **F (6098-5293)**



Color Black

40way

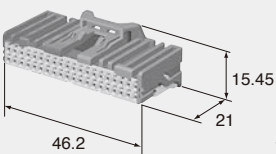
TH40FGY-NH **F (6098-5295)**



Color Gray

40way

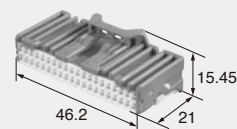
TH40FG-NH **F (6098-5297)**



Color Green

40way

TH40FL-NH **F (6098-8674)**



Color Blue

F-06

NH SERIES for HYBRID

F-07

NH SERIES

0.64mm, 2.3mm
(025, 090)

Housing (UNIT : mm)

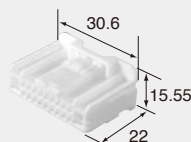
Ref: Terminal part No. [0.64mm] F-02
[2.3mm] G-02

Material PBT

No. of way/ () corresponds to 0.64mm, 2.3mm, in order from left to right.
極数 / () 内表示: 左から0.64mm 極数、2.3mm 極数

20way (18+2)

NH 18 FW-CS2 **F (6098-7261)**

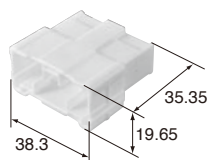


Color

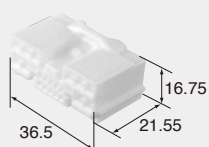
Natural

20way (10+10)

Color Natural



M (6098-5989) NH 10 MW-CS10 NH 10 FW-CS10 **F (6098-5988)**

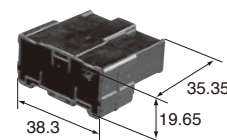


Color

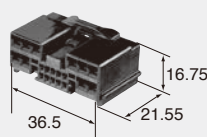
Natural

20way (10+10)

Color Black



M (6098-7254) NH 10 MW-CS10-B NH 10 FW-CS10-B **F (6098-7253)**



Color

Black

NS-CS SERIES



Features

The NS-CS connector series is an improved version of the existing NS connector series and it is a highly reliable connector series. By setting the front retainer of female connector assists allure male terminal, and adjust the incomplete inserted terminal to the correct position.

An extra clip can be attached to the connector housing to secure it to the body.

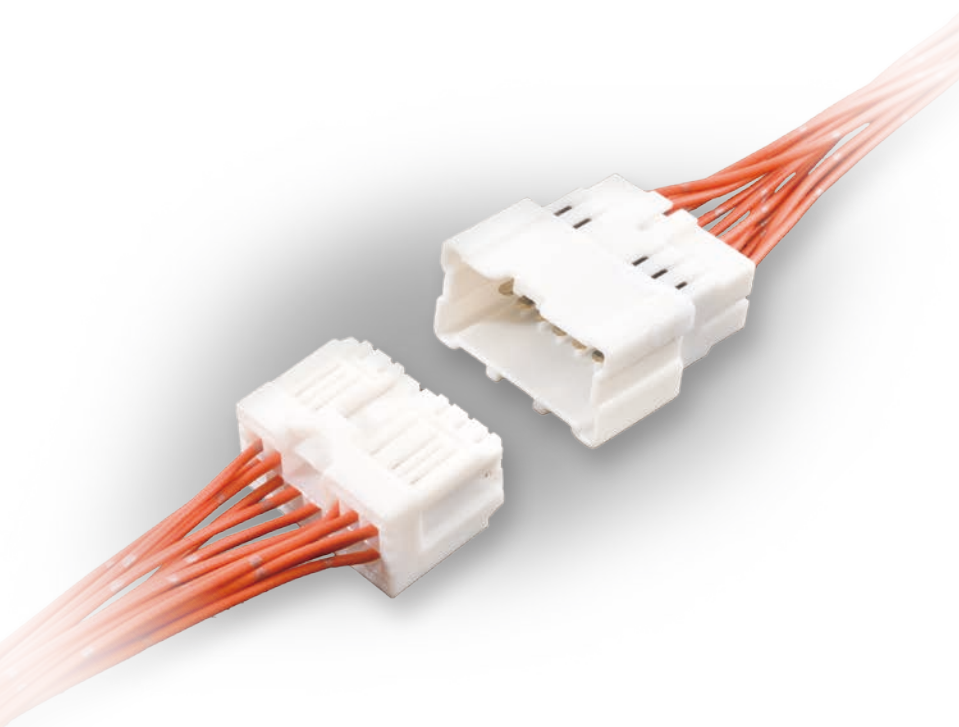
特 長

NS - CSシリーズは、従来のNSシリーズに比べ、より信頼性を向上させたコネクタです。

ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。

フロントリテーナの採用により、コネクタ嵌合時のオスターミナル誘い込み性、ターミナル半挿入検知性が向上しております。

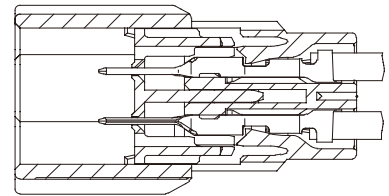
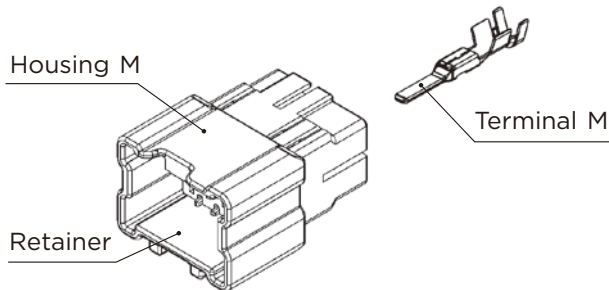
コネクタハウジングにはボデーに固定するためのクリップを装着することができます。



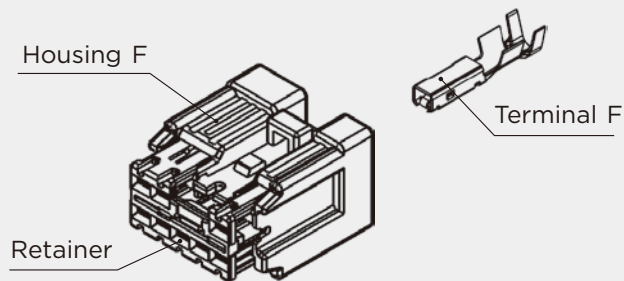
NS-CS SERIES for STANDARD

2.3mm (090)

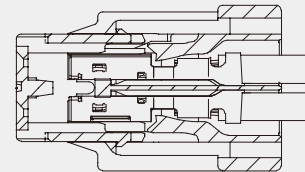
Structure



Connector M



Connector F



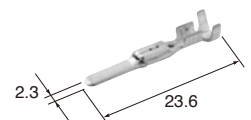
2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

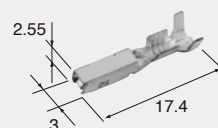
(SS)

Cable size (mm ²)	0.22
Material	Brass
Surface treatment	Tin-plated



M (8230-5168)

F (8240-0367)

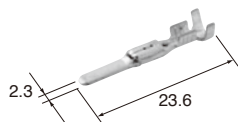


Cable size (mm ²)	0.22
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)Cable size (mm²) 0.3~0.5

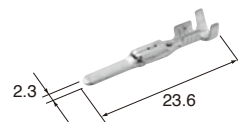
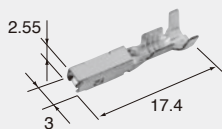
Material Brass

Surface treatment Tin-plated

**(M)**Cable size (mm²) 0.75~1.0

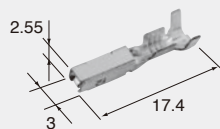
Material Brass

Surface treatment Tin-plated

**M (8230-5169)****F (8240-0368)**Cable size (mm²) 0.3~0.5

Material Heat-resistant copper alloy

Surface treatment Tin-plated

M (8230-5170)**F (8240-0369)**Cable size (mm²) 0.75~1.0

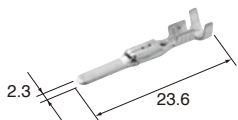
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(L)Cable size (mm²) 1.25

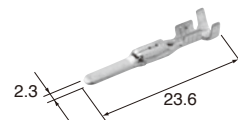
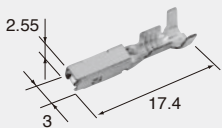
Material Brass

Surface treatment Tin-plated

**(LL)**Cable size (mm²) 2.0~2.5

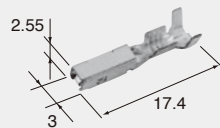
Material Brass

Surface treatment Tin-plated

**M (8230-5171)****F (8240-0370)**Cable size (mm²) 1.25

Material Heat-resistant copper alloy

Surface treatment Tin-plated

M (8230-5172)**F (8240-0371)**Cable size (mm²) 2.0~2.5

Material Heat-resistant copper alloy

Surface treatment Tin-plated

G-03

NS-CS SERIES

2.3mm (090)

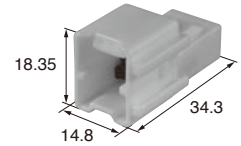
Housing (UNIT : mm)

Ref: Terminal part No. G-02

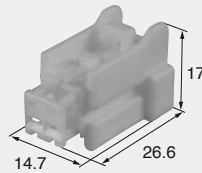
Material PBT

2way

Color Natural



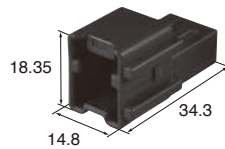
M(6098-6960) NS02MW-CS NS02FW-CS F(6098-8098)



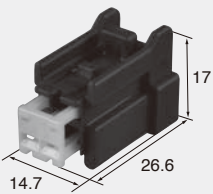
Color Natural

2way

Color Brown



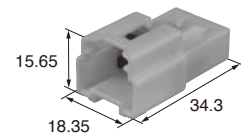
M(6098-6962) NS02MBR-CS NS02FBR-CS F(6098-8099)



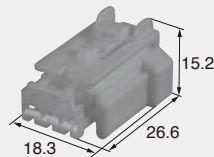
Color Brown

3way

Color Natural



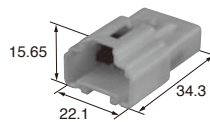
M(6098-6964) NS03MW-CS NS03FW-CS F(6098-6944)



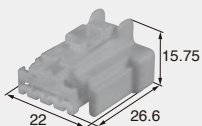
Color Natural

4way

Color Natural



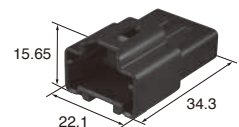
M(6098-6966) NS04MW-CS NS04FW-CS F(6098-6945)



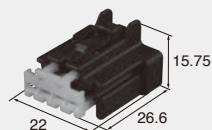
Color Natural

4way

Color Brown



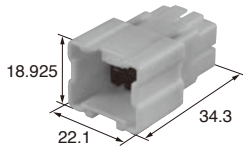
M(6098-6968) NS04MBR-CS NS04FBR-CS F(6098-6946)



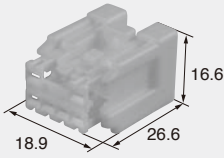
Color Brown

6way

Color Natural



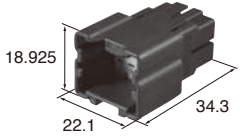
M(6098-6970) NS06MW-CS NS06FW-CS **F(6098-6947)**



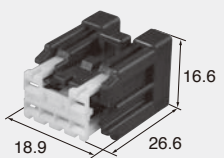
Color Natural

6way

Color Brown



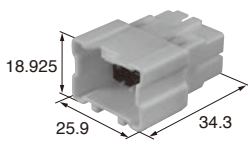
M(6098-6972) NS06MBR-CS NS06FBR-CS **F(6098-6948)**



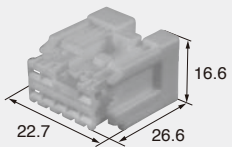
Color Brown

8way

Color Natural



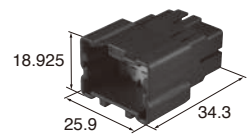
M(6098-6974) NS08MW-CS NS08FW-CS **F(6098-6949)**



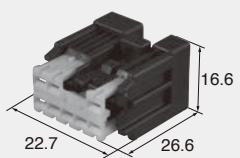
Color Natural

8way

Color Brown



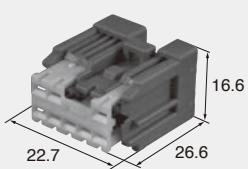
M(6098-6976) NS08MBR-CS NS08FBR-CS **F(6098-6951)**



Color Brown

8way

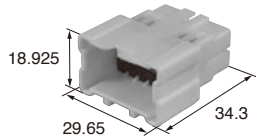
NS08FGY-CS **F(6098-6950)**



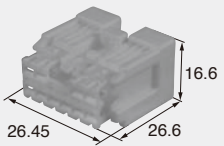
Color Gray

10way

Color Natural



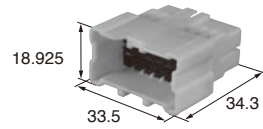
M(6098-6978) NS10MW-CS NS10FW-CS **F(6098-6952)**



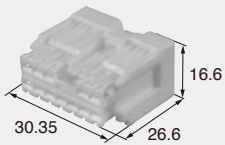
Color Natural

12way

Color Natural



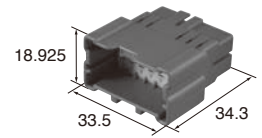
M(6098-6980) NS12MW-CS NS12FW-CS **F(6098-6954)**



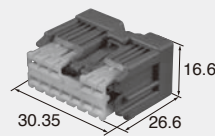
Color Natural

12way

Color Gray



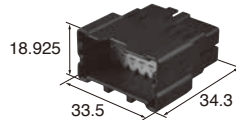
M(6098-6982) NS12MGY-CS NS12FGY-CS **F(6098-6955)**



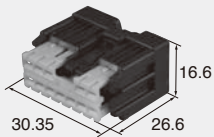
Color Gray

12way

Color Brown



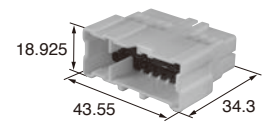
M(6098-6984) NS12MBR-CS NS12FBR-CS **F(6098-6956)**



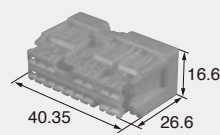
Color Brown

16way

Color Natural



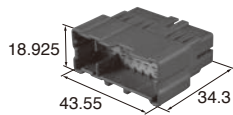
M(6098-6986) NS16MW-CS NS16FW-CS **F(6098-6957)**



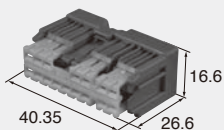
Color Natural

16way

Color Gray



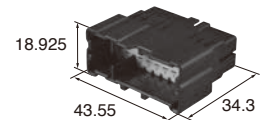
M(6098-6988) NS16MGY-CS NS16FGY-CS **F(6098-6958)**



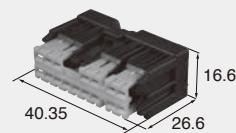
Color Gray

16way

Color Brown



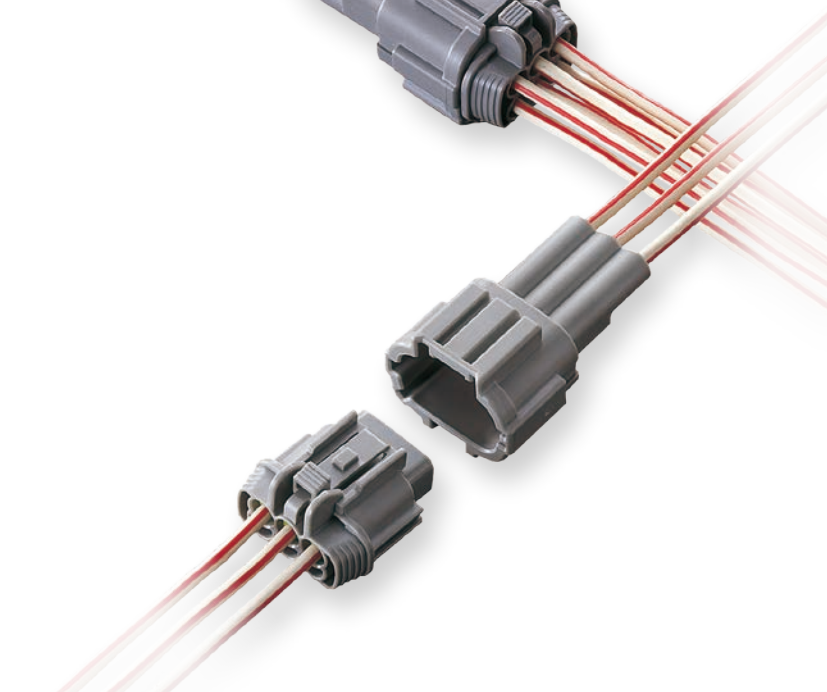
M(6098-6990) NS16MBR-CS NS16FBR-CS **F(6098-6959)**



Color Brown

G-06

RS SERIES



Features

RS series consists of a 2.3mm type classified according to terminal size, supporting use in a variety of control circuits and low power circuits. The RS-standard type connectors adopt an inertia locking system to prevent semi-engagement (this system is not incorporated in some connectors).

特 長

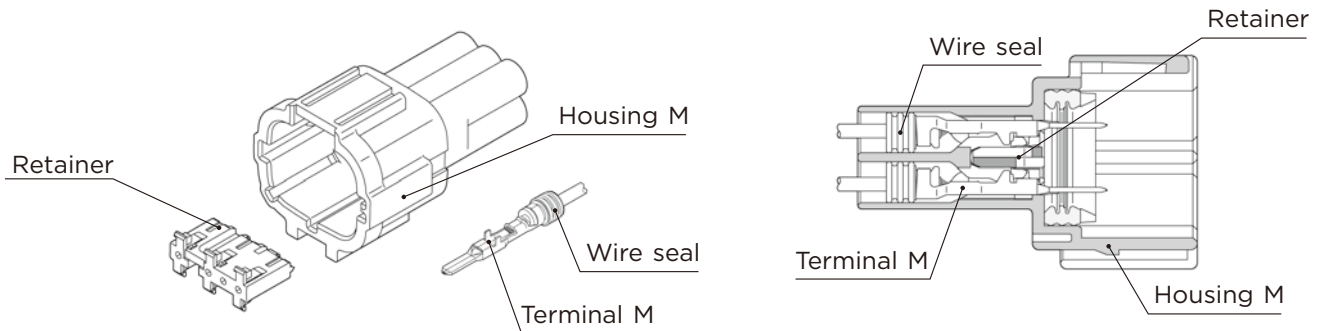
RSシリーズは、ターミナルサイズが2.3mmで構成されており、各種の制御回路並びに低パワー回路に対応することができます。

RS標準タイプコネクタは、コネクタの半嵌合が起きにくい慣性ロック方式です。(慣性ロック方式でないコネクタが一部あります。)

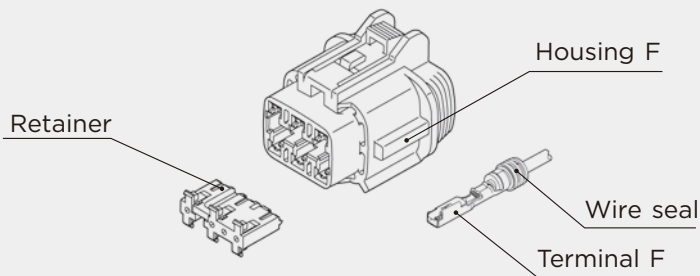
RS SERIES for STANDARD Type1

2.3mm (090)

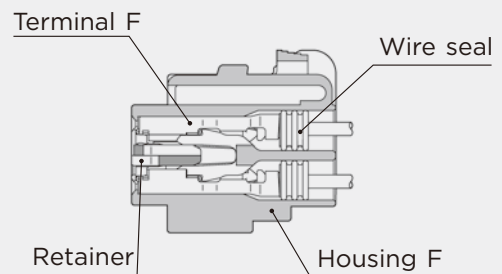
Structure



Connector M



Connector F



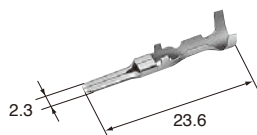
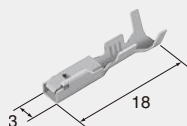
2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

(S)

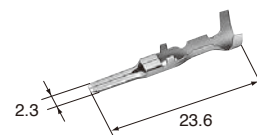
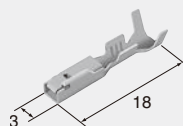
Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Tin-plated

**M (8100-3803)****F (8240-0263)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)**Au**

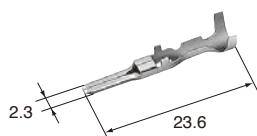
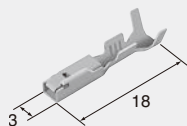
Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Gold-plated

**M (8100-3805)****F (8240-0266)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(M)

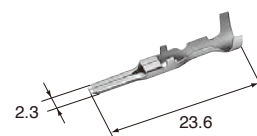
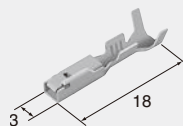
Cable size (mm²)	0.85~1.25
Material	Brass
Surface treatment	Tin-plated

**M (8100-3804)****F (8240-0264)**

Cable size (mm²)	0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)**Au**

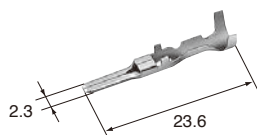
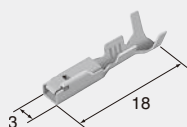
Cable size (mm²)	0.85~1.25
Material	Brass
Surface treatment	Gold-plated

**M (8100-3806)****F (8240-0267)**

Cable size (mm²)	0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(L)

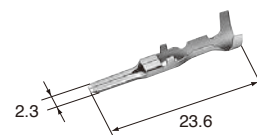
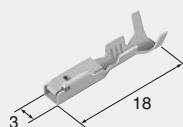
Cable size (mm²)	2.0
Material	Brass
Surface treatment	Tin-plated

**M (8100-4172)****F (8240-0265)**

Cable size (mm²)	2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)**Au**

Cable size (mm²)	2.0
Material	Brass
Surface treatment	Gold-plated

**M (8100-4173)****F (8240-0268)**

Cable size (mm²)	2.0
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

H-03

RS SERIES

2.3mm (090)

Wire seals (UNIT : mm)

The wire seals are common to M and F.
ワイヤシールはM、F 共用です。

(M)

(7165-0472)

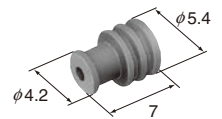
Cable size (mm ²)	(AVSS/1.25)
Cable overall diameter (mm)	2.0~2.4
Material	Silicone
Color	Violet



(US)

(7165-0474)

Cable size (mm ²)	(AVSS/0.3) (CAVUS/0.3~0.5)
Cable overall diameter (mm)	1.0~1.4
Material	Silicone
Color	Orange



(S)

(7165-0473)

Cable size (mm ²)	(AVSS/0.5~0.85) (CAVUS/0.85~1.25)
Cable overall diameter (mm)	1.5~1.9
Material	Silicone
Color	Light Blue



(L)

(7165-0471)

Cable size (mm ²)	(AVSS/2.0)
Cable overall diameter (mm)	2.5~2.9
Material	Silicone
Color	Light Green



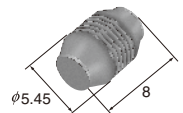
2.3mm (090)

Dummy plugs (UNIT : mm)

- Dummy plugs are common to M and F.
- Dummy plugs are used to blind unused terminal holes.
- ダミー栓はM、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

(7165-1131)

Material	Silicone
Color	Blue



2.3mm (090)

Housing (UNIT : mm)

Ref: Terminal part No. H-02

Ref: wire seal No. H-04

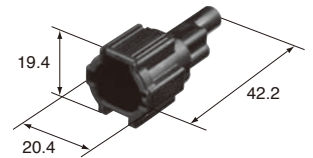
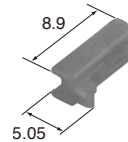
Ref: Dummy plug No. H-04

Material PBT

※ Detail dimensions for mounting portion of the bracket are specified in the official drawing.
Please contact our sales staff.

※ 固定用ブラケットに関しては、弊社営業担当にお問い合わせください。

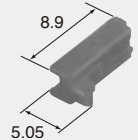
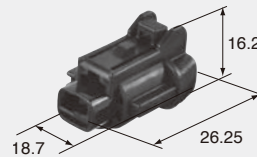
1way



Retainer No. (6918-1773)

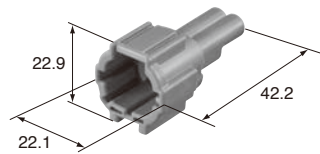
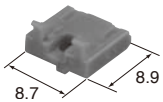
M (6188-0551) RS 01 MB

RS 01 FB **F (6185-0862)**



Retainer No. (6918-1773)

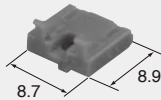
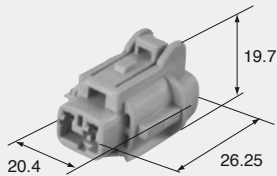
2way



Retainer No. (6918-1774)

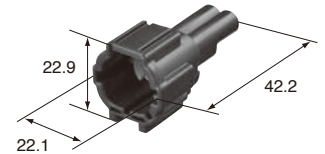
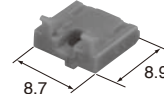
M (6188-0554) RS 02 MGY

RS 02 FGY **F (6185-0867)**



Retainer No. (6918-1774)

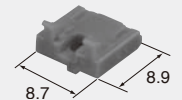
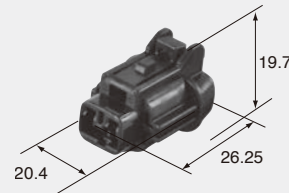
2way



Retainer No. (6918-1774)

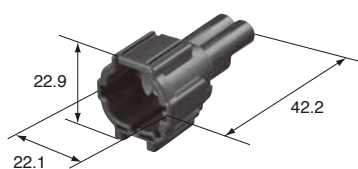
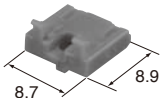
M (6188-0552) RS 02 MB

RS 02 FB **F (6185-0865)**



Retainer No. (6918-1774)

2way

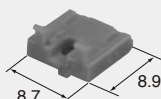
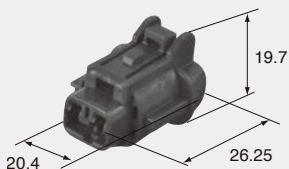


Retainer No. (6918-1774)

M (6188-0553) RS 02 MBR

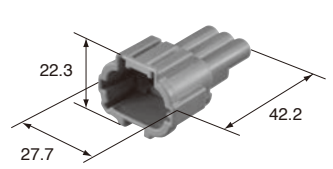
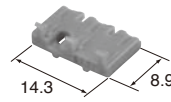
M (6188-0663) RS 02 MBR-DGY RS 02 FBR **F (6185-0866)**

RS 02 FBR-DGY **F (6185-1101)**



Retainer No. (6918-1774)

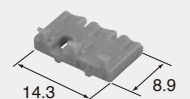
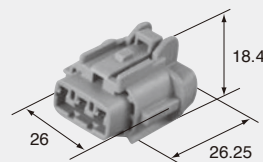
3way



Retainer No. (6918-1775)

M (6188-0556) RS 03 MGY

RS 03 FGY **F (6185-0869)**

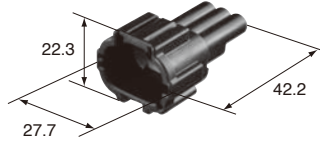


Retainer No. (6918-1775)

H-05

RS SERIES

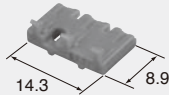
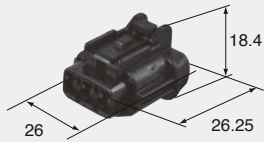
3way



Retainer No. (6918-1775)

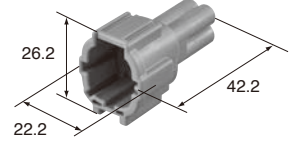
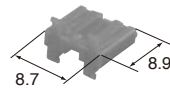
M (6188-0555) RS 03 MB

RS 03 FB **F (6185-0868)**



Retainer No. (6918-1775)

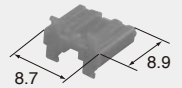
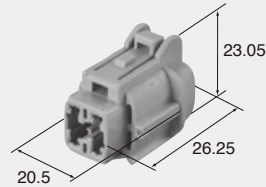
4way



Retainer No. (6918-1776)

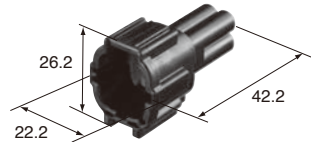
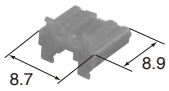
M (6188-0558) RS 04 MGY

RS 04 FGY-PR **F (6185-1171)**



Retainer No. (6918-1776)

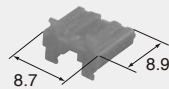
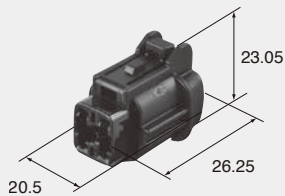
4way



Retainer No. (6918-1776)

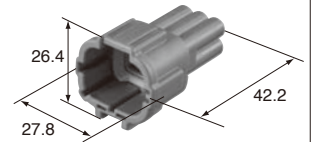
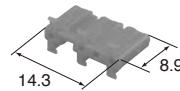
M (6188-0557) RS 04 MB

RS 04 FB-PR **F (6185-1169)**



Retainer No. (6918-1776)

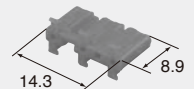
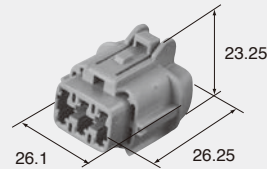
6way



Retainer No. (6918-1779)

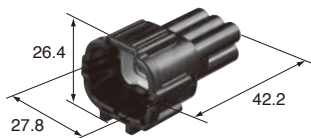
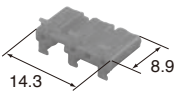
M (6188-5540) RS 06 MGY

RS 06 FGY-PR **F (6185-5177)**



Retainer No. (6918-1779)

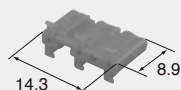
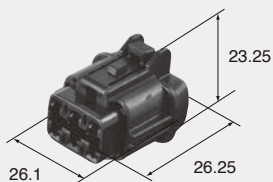
6way



Retainer No. (6918-1779)

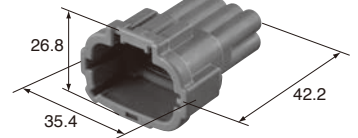
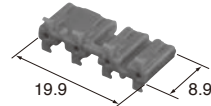
M (6188-5539) RS 06 MB

RS 06 FB-PR **F (6185-5175)**



Retainer No. (6918-1779)

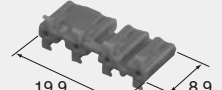
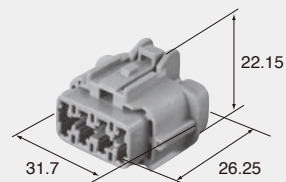
8way



Retainer No. (6918-1780)

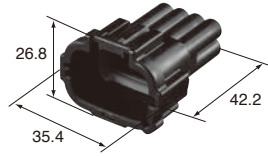
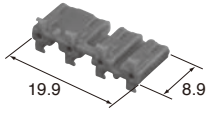
M (6188-5544) RS 08 MGY-PR

RS 08 FGY-PR **F (6185-5181)**



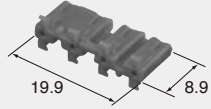
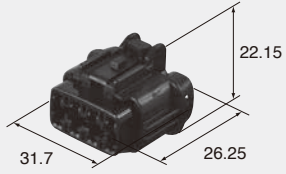
Retainer No. (6918-1780)

8way



Retainer No. (6918-1780)

M (6188-5542) RS 08 MB-PR RS 08 FB-PR **F (6185-5179)**



Retainer No. (6918-1780)

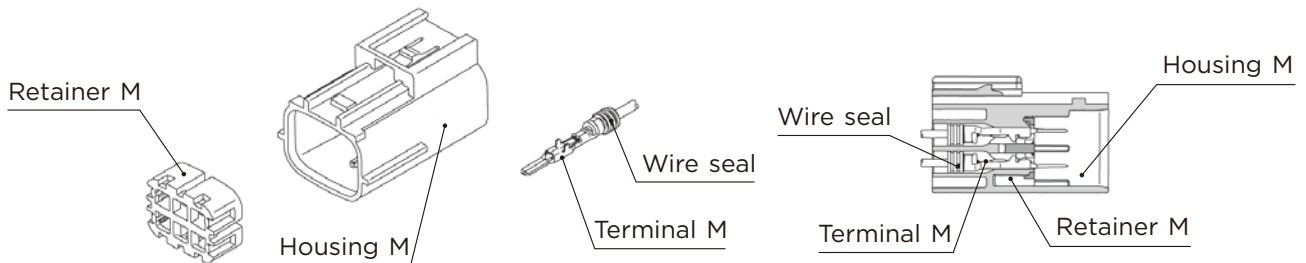
H-07

RS SERIES

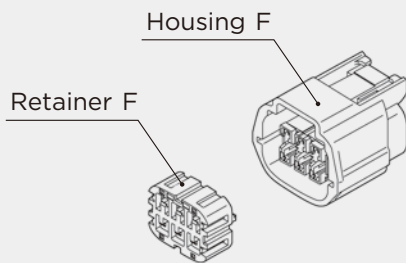
RS SERIES for STANDARD Type2

2.3mm (090)

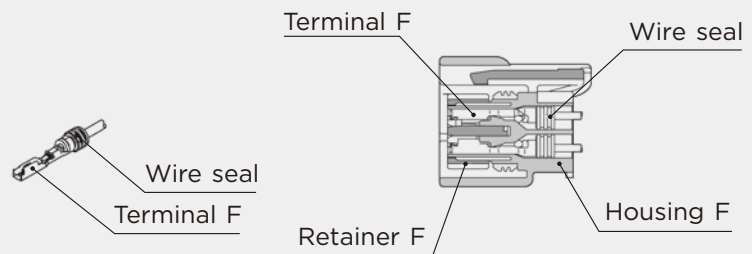
Structure



Connector M



Connector F

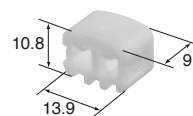


2.3mm (090)

Housing (UNIT : mm)

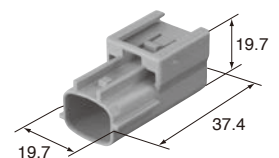
Ref: Terminal part No.	H-02
Ref: wire seal No.	H-04
Ref: Dummy plug No.	H-04
Material	PBT

2way

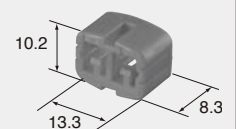
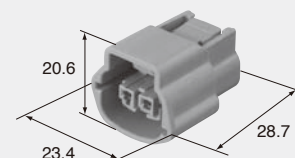


Retainer No. (6918-1653)

M (6181-0515) RS 02 MSB
M (6181-0670) RS 02 MSB-B

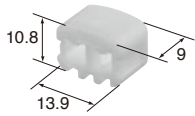


RS 02 FSB **F (6189-0951)**
 RS 02 FSB-B **F (6189-1107)**



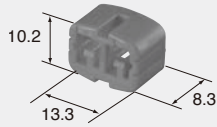
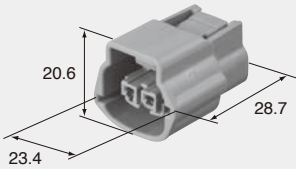
Retainer No. (6918-1651)

2way



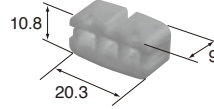
Retainer No. (6918-1653)

M (6181-0532) RS 02 MLGY **RS 02 FLGY** **F (6189-0950)**



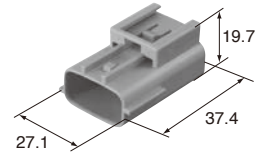
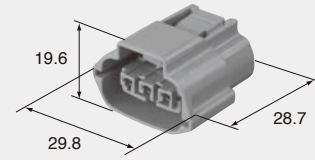
Retainer No. (6918-1651)

3way



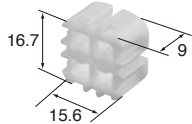
Retainer No. (6918-1654)

M (6181-0516) RS 03 MSB
M (6181-0671) RS 03 MSB-GY **RS 03 FSB** **F (6189-0928)**
RS 03 FSB-GY **F (6189-1104)**



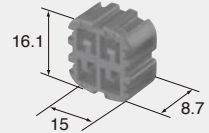
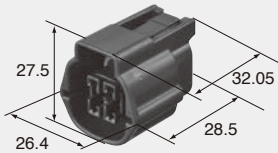
Retainer No. (6918-1652)

4way



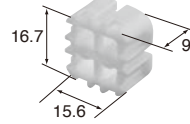
Retainer No. (6918-1598)

M (6181-0513) RS 04 MG
M (6181-0668) RS 04 MG-GY **RS 04 FG** **F (6189-7756)**
RS 04 FG-GY **F (6189-7757)**



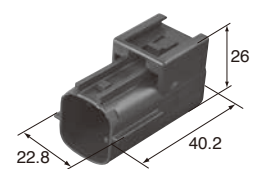
Retainer No. (6918-1599)

4way



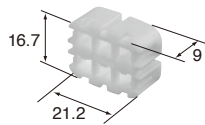
Retainer No. (6918-1598)

M (6181-0514) RS 04 ML
M (6181-0669) RS 04 ML-B **RS 04 FL** **F (6189-7758)**
RS 04 FL-B **F (6189-7759)**



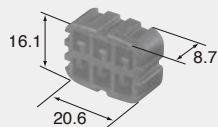
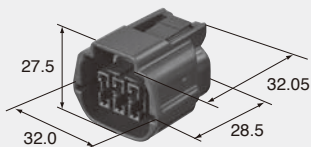
Retainer No. (6918-1599)

6way



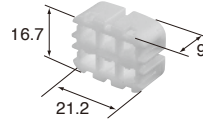
Retainer No. (6918-1600)

M (6181-0511) RS 06 MG
M (6181-0665) RS 06 MG-DGY **RS 06 FG** **F (6189-7760)**
RS 06 FG-DGY **F (6189-7761)**



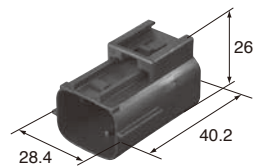
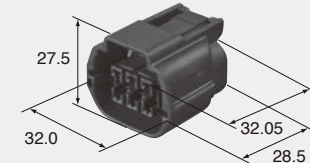
Retainer No. (6918-1601)

6way



Retainer No. (6918-1600)

M (6181-0536) RS 06 ML
M (6181-0664) RS 06 ML-B **RS 06 FL** **F (6189-7762)**
RS 06 FL-B **F (6189-7763)**

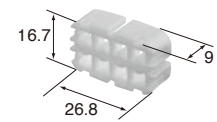


Retainer No. (6918-1601)

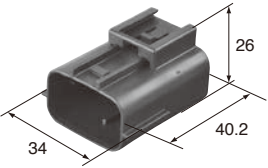
H-09

RS SERIES

8way



Retainer No. (6918-1602)



M (6181-0512) RS 08 MG

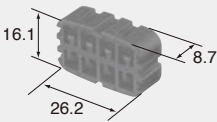
M (6181-0667) RS 08 MG-GY

RS 08 FG

F (6189-0954)

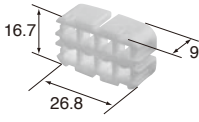
RS 08 FG-GY

F (6189-1108)

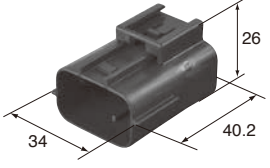


Retainer No. (6918-1603)

8way



Retainer No. (6918-1602)



M (6181-0522) RS 08 ML

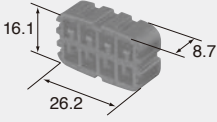
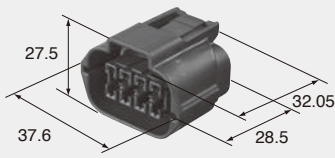
M (6181-0666) RS 08 ML-B

RS 08 FL

F (6189-0955)

RS 08 FL-B

F (6189-1109)

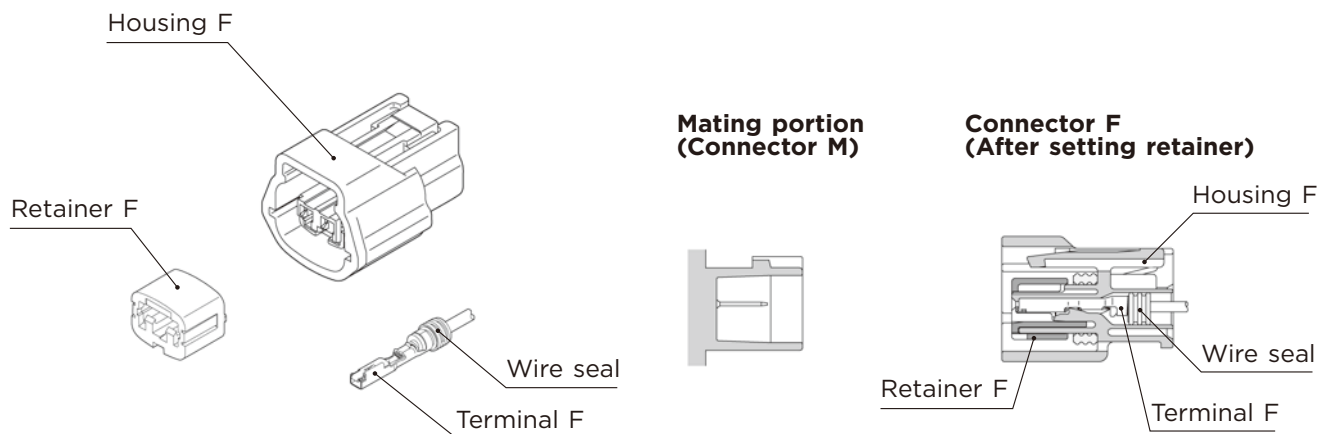


Retainer No. (6918-1603)

RS SERIES for E-RS

2.3mm (090)

Structure



H-11

RS SERIES

2.3mm (090)

Housing (UNIT : mm)

Ref: Terminal part No. H-02

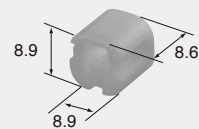
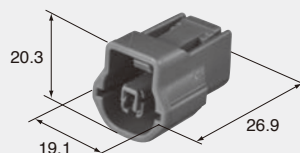
Ref: wire seal No. H-04

Ref: Dummy plug No. H-04

Material PBT

1way

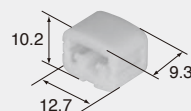
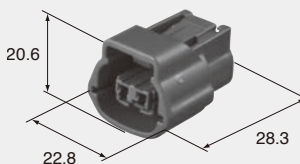
E 01 FGY-RS **F (6098-2329)**



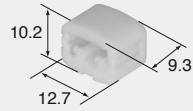
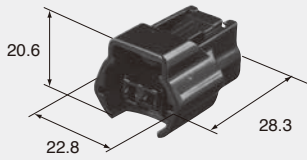
Retainer No. (6918-1636)

2way

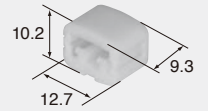
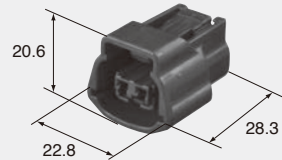
E 02 FGY-RS **F (6189-0772)**



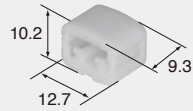
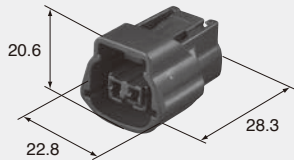
Retainer No. (6918-1594)

2wayE 02 FB-RS **F (6189-0773)**

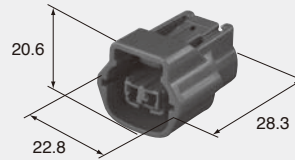
Retainer No. (6918-1594)

2wayE 02 FBR-RS **F (6189-0774)**E 02 FBR-RS-GY **F (6189-1093)**

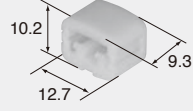
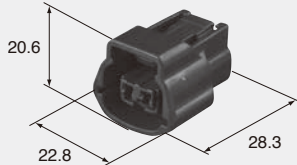
Retainer No. (6918-1594)

2wayE 02 FG-RS **F (6189-0775)**E 02 FG-RS-LGY **F (6189-1094)**

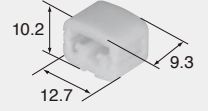
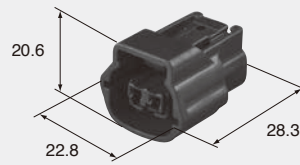
Retainer No. (6918-1594)

2wayE 02 FR-RS **F (6189-0776)**E 02 FR-RS-GY **F (6189-1095)**

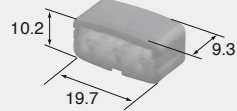
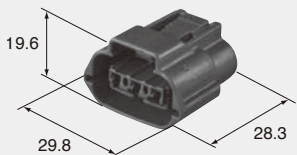
Retainer No. (6918-1594)

2wayE 02 FL-RS **F (6189-0777)**E 02 FL-RS-LGY **F (6189-1096)**

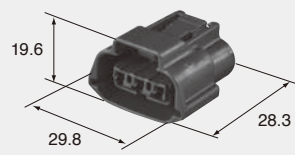
Retainer No. (6918-1594)

2wayE 02 FPU-RS **F (6189-0778)**E 02 FPU-RS-B **F (6189-1097)**

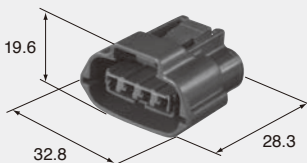
Retainer No. (6918-1594)

3wayE 03 FGY-RS **F (6189-7471)**

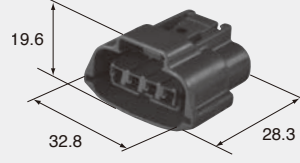
Retainer No. (6918-1595)

3wayE 03 FBR-RS **F (6189-7710)**E 03 FBR-RS-B **F (6189-7711)**

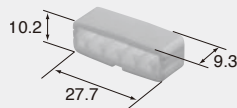
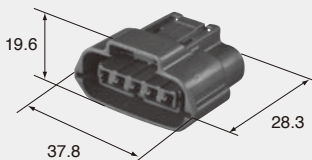
Retainer No. (6918-1595)

4wayE 04 FGY-RS **F (6189-7469)**

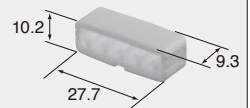
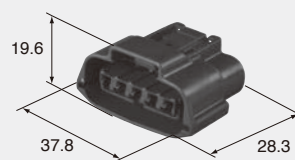
Retainer No. (6918-1596)

4wayE 04 FBR-RS **F (6189-7713)**E 04 FBR-RS-LGY **F (6189-7714)**

Retainer No. (6918-1596)

5wayE 05 FGY-RS **F (6189-7470)**

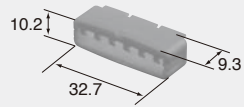
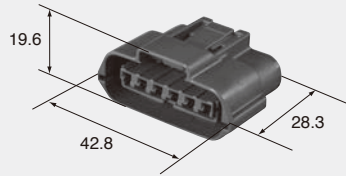
Retainer No. (6918-1604)

5wayE 05 FBR-RS **F (6189-7716)**E 05 FBR-RS-B **F (6189-7717)**

Retainer No. (6918-1604)

6way

E 06 FGY-RS **F (6189-7393)**



Retainer No. (6918-1597)

TL SEALED SERIES



Features

The TL sealed connector series has a mechanism that detects terminal incomplete insertion by using a dedicated jig. To restrain from incomplete engagement, this series is adopted a lock mechanism with effective clear sound. These male connectors can be directly secured to a stay/bracket on the car body. (Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)

特 長

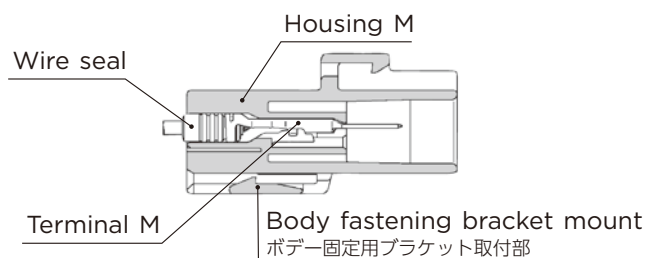
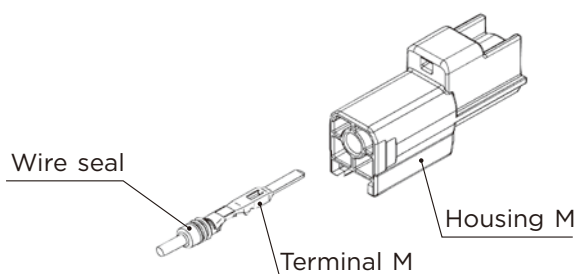
TL 防水シリーズは、専用治具にて端子半挿入を検出する構造を採用しております。コネクタ半嵌合抑制として、ロック音を向上させたロック構造を採用しております。オスコネクタは、ボデー側のブラケット（ステー）に直接固定することができます。

注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

TL SEALED SERIES for STANDARD

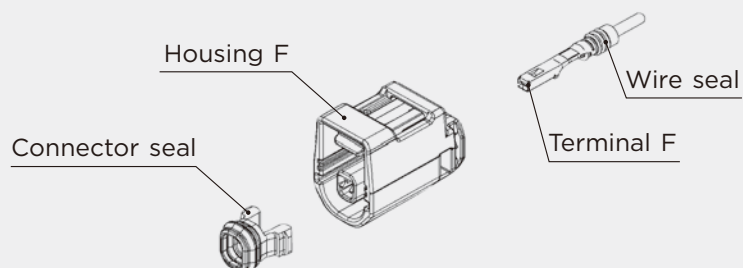
2.3mm (090)

Structure

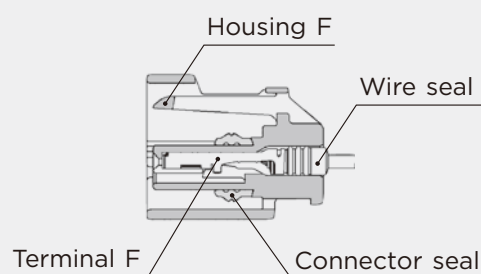


I-02

Connector M



Connector F



2.3mm (090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

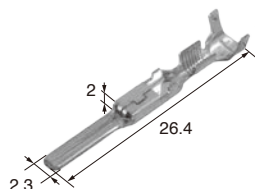
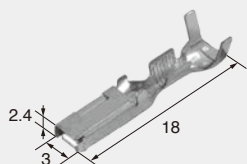
※ For terminal selection, please contact our sales staff.

※ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

(SS)Cable size (mm²) 0.35~0.5

Material Brass

Surface treatment Tin-plated

**M (8230-5707)****F (8240-0667)**Cable size (mm²) 0.3~0.5

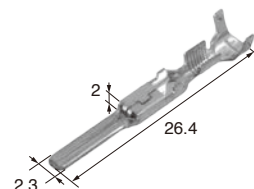
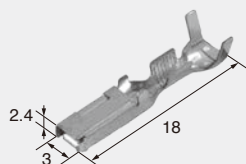
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(S)Cable size (mm²) 0.3~0.75

Material Brass

Surface treatment Tin-plated

**M (8230-5706)****F (8240-0666)**Cable size (mm²) 0.3~0.75

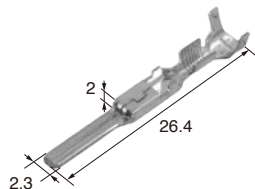
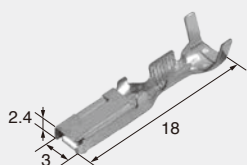
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(M)Cable size (mm²) 0.75~1.25

Material Brass

Surface treatment Tin-plated

**M (8230-5705)****F (8240-0665)**Cable size (mm²) 0.75~1.25

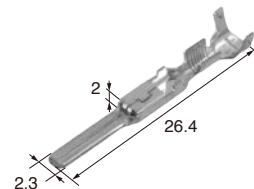
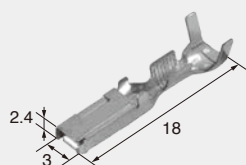
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(L)Cable size (mm²) 2.0~2.5

Material Brass

Surface treatment Tin-plated

**M (8230-5704)****F (8240-0664)**Cable size (mm²) 2.0~2.5

Material Heat-resistant copper alloy

Surface treatment Tin-plated

I-03

TL SEALED SERIES

2.3mm (090)

Wire seals (UNIT : mm)

- Male / Female Shared
- M、F 共用です。

(SS)

(7165-1763)

Cable overall diameter(mm) Over than 1.05 mm below 1.4 mm

Material Silicone

Color Dark Green



(S)

(7165-1764)

Cable overall diameter(mm) Over than 1.3 mm below 1.75 mm

Material Silicone

Color Dark Gray



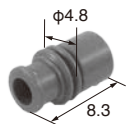
(M)

(7165-1765)

Cable overall diameter(mm) Over than 1.7 mm below 2.4 mm

Material Silicone

Color Dark Blue



(L)

(7165-1766)

Cable overall diameter(mm) Over than 2.4 mm below 3.0 mm

Material Silicone

Color Reddish Brown (ベンガラ)



2.3mm (090)

Dummy plugs (UNIT : mm)

Ref; 2.3mm Dummy plug detail

(7165-0193) K-07

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

2.3mm (090)

Housing (UNIT : mm)

Ref: Terminal part No. I-02

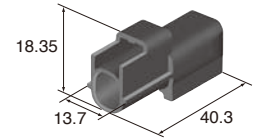
Ref: wire seal No. I-04

Ref: Dummy plug No. K-07

Material PBT

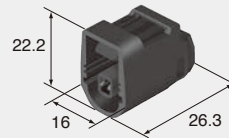
1way

Color Black



M (6181-6658)

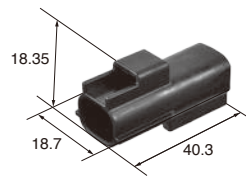
F (6189-7214)



Color Black

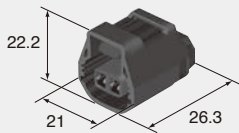
2way

Color Black



M (6181-7150)

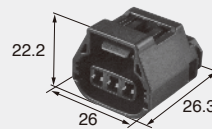
F (6189-7189)



Color Black

3way

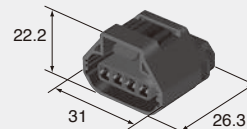
F (6189-7960)



Color Black

4way

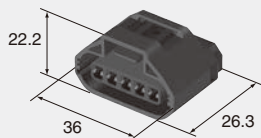
F (6189-7188)



Color Black

5way

F (6189-7190)



Color Black

I-05

TL SEALED SERIES

SL SERIES



Features

The SL connector series is adopted a mechanism that detects terminal incomplete insertion by using a dedicated jig. These connectors can be directly secured to a stay on the car body. In addition, an extra clip can be attached to the connector to secure it to the car body.

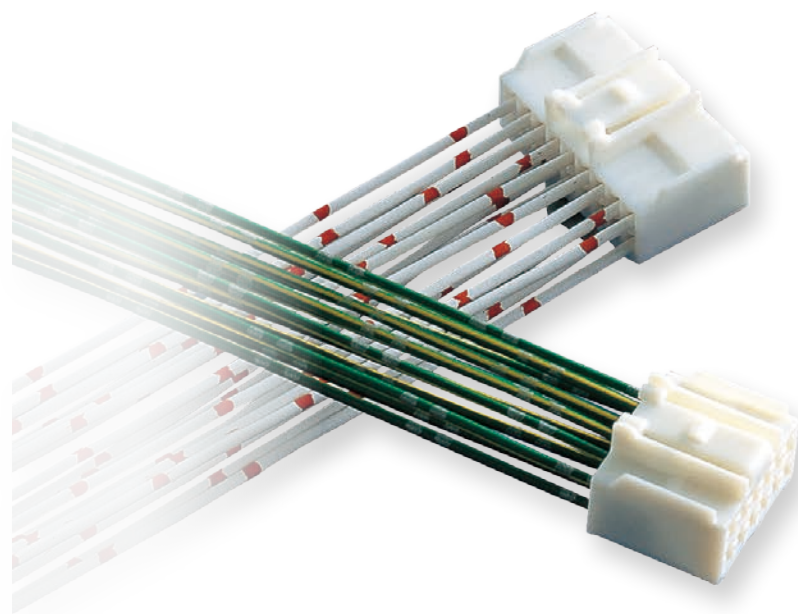
(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)

特 長

SLシリーズコネクタは、専用治具にて端子半挿入を検出する構造を採用しております。コネクタは、ボデー側のブラケットに直接固定することができます。

またコネクタにはボデーに固定するためのクリップを装着することができます。

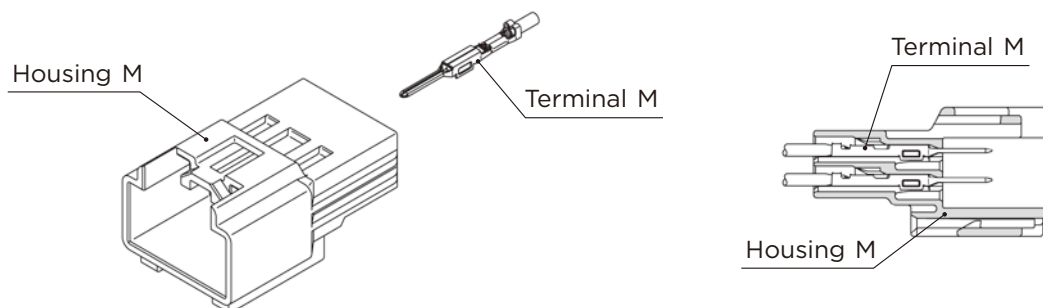
注意：専用の導通治具に関しては弊社営業担当にご確認下さい。



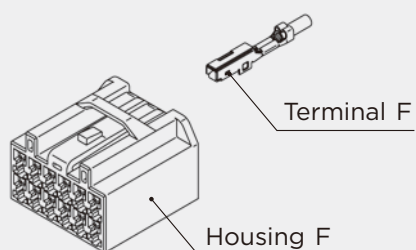
SL SERIES for STANDARD

1.5mm (060)

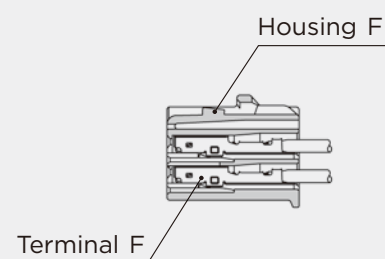
Structure



Connector M



Connector F



1.5mm (060)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

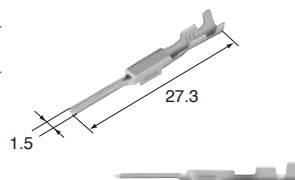
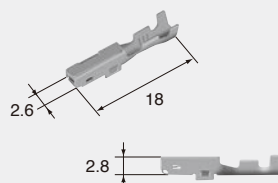
Terminal (UNIT : mm)

Note) L size terminal can be used for 14 poled connectors with insertion cavity specified.
For details, please contact our sales staff.

※Lサイズターミナルの使用できるコネクタは限定されます。
必ず弊社営業担当にお問い合わせください。

(S)

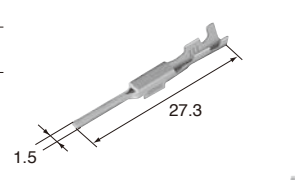
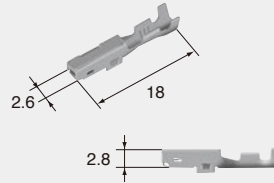
Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3382)****F (8100-3391)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)**Au**

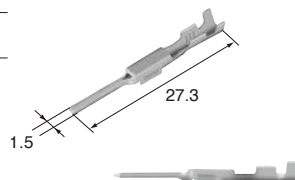
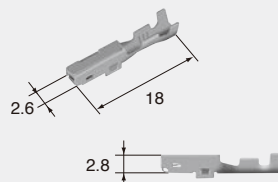
Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

**M (8230-4883)****F (8240-0135)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(M)

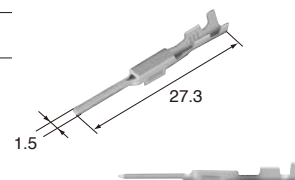
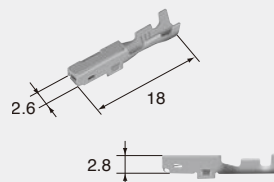
Cable size (mm²)	0.75, 0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3383)****F (8100-3392)**

Cable size (mm²)	0.75, 0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)

Cable size (mm²)	2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

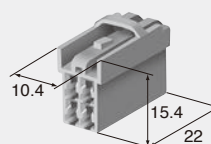
**M (8100-3384)****F (8100-3393)**

Cable size (mm²)	2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

1.5mm (O60)**Housing (UNIT : mm)****Ref: Terminal part No.** J-02**Material** PBT

Note) Connector can be used together with 2mm² wire are 14 poled connectors.
For details, please contact our sales staff.

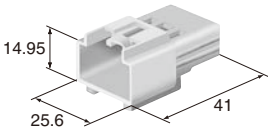
※Lサイズターミナルの使用できるコネクタは限定されます。
必ず弊社営業担当にお問い合わせください。

4way**F (6098-3456)****Color** Natural**J-03****SL SERIES**

12way

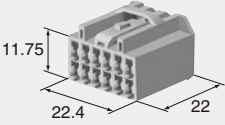
Color

Natural



M (6098-3449)

F (6098-8482)

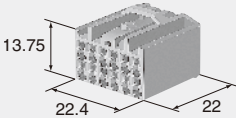


Color

Natural

12way

F (6098-4876)

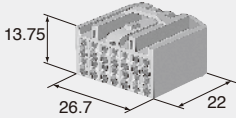


Color

Natural

14way

F (6098-4877)

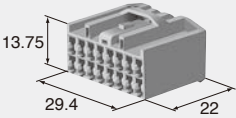


Color

Natural

16way

F (6098-3453)



Color

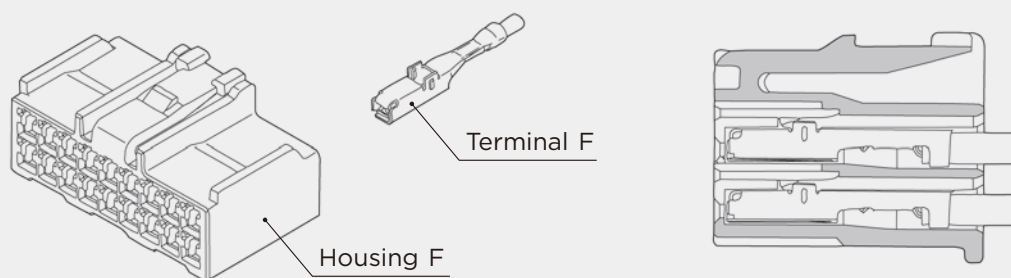
Natural

SL SERIES for STANDARD

2.3mm (090)

Structure

Connector F



J-05

SL SERIES

2.3mm (090)

Terminal (UNIT : mm)

Ref; 2.3mm Terminal detail

S	M (8230-4492)	F (8240-4882)	A-11
M	M (8230-4502)	F (8240-4892)	A-11
L	M (8230-4512)	F (8240-4942)	A-11

Regarding "Gold-plated Terminal", please refer "A-11".
AuメッキターミナルはA-11ご参照

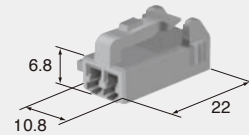
2.3mm (090)

Housing (UNIT : mm)

Ref: Terminal part No.	A-10
Material	PBT/PA6T

2way

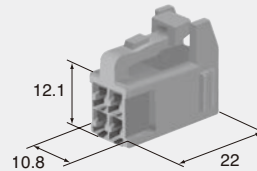
F (6240-5337)



Material	PBT
Color	Natural

4way

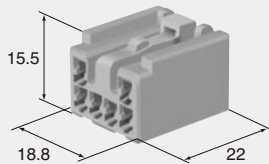
F (6098-8478)



Material	PBT
Color	Natural

6way

F (6240-5339)



Material	PBT
Color	Natural

Material	PBT
Color	Natural
Note	With body fastening clamp 回り止めクランプ付

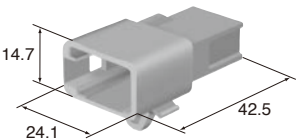
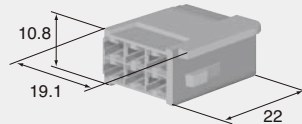


Plate thickness range for clamp :
t=0.6~2.0mm
Hole=7.2mm×12mm

M (6098-2679)

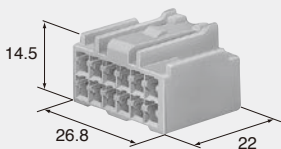
F (6098-2680)



Material	PBT
Color	Natural

12way

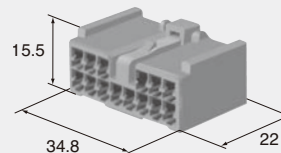
F (6098-1714)



Material	PBT
Color	Natural

14way

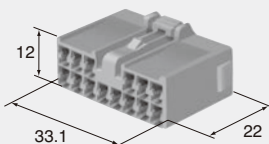
F (6098-1747)



Material	PA6T
Color	Natural

14way

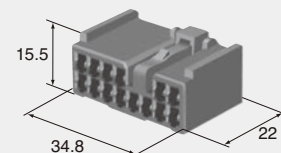
F (6098-2101)



Material	PBT
Color	Natural

14way

F (6098-1774)



Material	PA6T
Color	Black

16way

Material

PBT

Color

Natural

M (6098-1744)

F (6098-1746)

Material

PBT

Color

Natural

18way

F (6098-1627)

Material

PBT

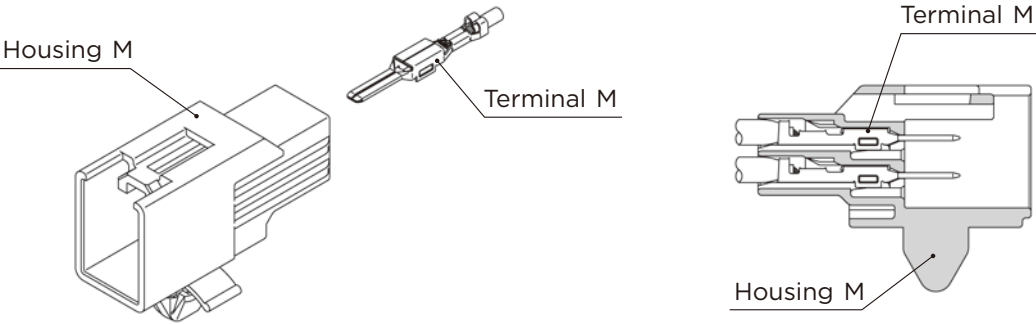
Color

Natural

SL SERIES for STANDARD

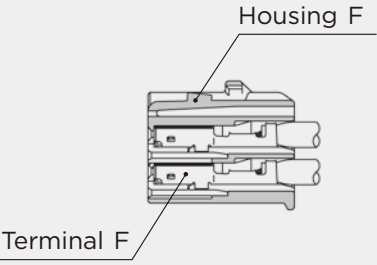
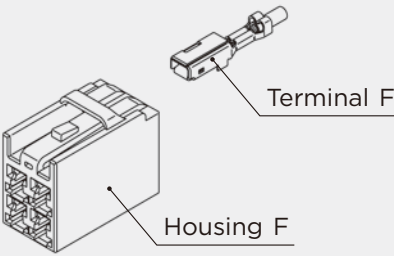
2.8mm (110)

Structure



Connector M

Connector F



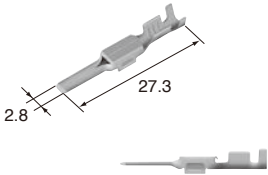
2.8mm (110)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

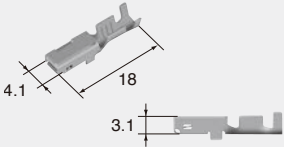
(S)

Cable size (mm ²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated



M (8100-3385)

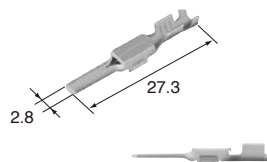
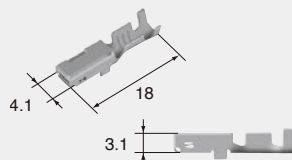
F (8100-3394)



Cable size (mm ²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)

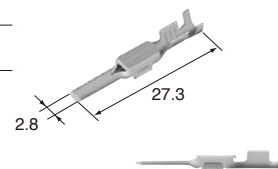
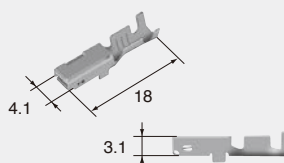
Cable size (mm²)	0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3386)****F (8100-3395)**

Cable size (mm²)	0.85~1.25
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)

Cable size (mm²)	2.0~3.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3387)****F (8100-3396)**

Cable size (mm²)	2.0~3.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

2.8mm (110)**Housing** (UNIT : mm)

Ref: Terminal part No.	J-08
Material	PBT

4way

Color	Natural
Note	with clip for oval hole 回り止めクランプ付

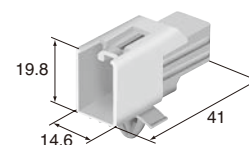
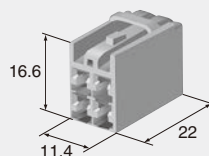


Plate thickness range for clamp:
t=0.6~2.0mm
Hole=7.2mm×10.2mm

M (6098-3452)**F (6098-8480)**

Color	Natural
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J-09

SL SERIES

SL SERIES for HYBRID

1.5mm, 2.8mm (060, 110)

Housing (UNIT : mm)

Ref: Terminal part No.	[1.5mm]	J-02
	[2.8mm]	J-08

Material	PBT
----------	-----

No. of way/ () corresponds to 1.5mm, 2.8mm, in order from left to right.
Note) Connector can be used together with 2mm² wire are 14 poled connectors.

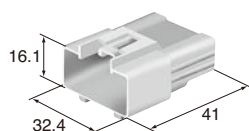
For details, please contact our sales staff.

極数/() 内表示: 左から1.5mm 極数、2.8mm 極数
※1サイズターミナルの使用できるコネクタは限定されます。
必ず弊社営業担当にお問い合わせください。

J-10

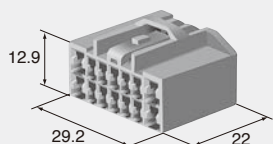
14way (10+4)

Color Natural



M (6098-3450)

F (6098-3458)



Color Natural

SL SEALED SERIES



Features

The SL sealed connector series is adopted a mechanism that detects terminal incomplete insertion by using a dedicated jig.

These connectors can be directly secured to a bracket/stay on the car body.

In addition, an extra clip can be attached to the connector to secure it to the car body.

(Note: Please contact our sales staff, if you have any questions regarding the dedicated jig.)

特 長

SL 防水シリーズは、専用治具にて端子半挿入を検出する構造を採用しております。

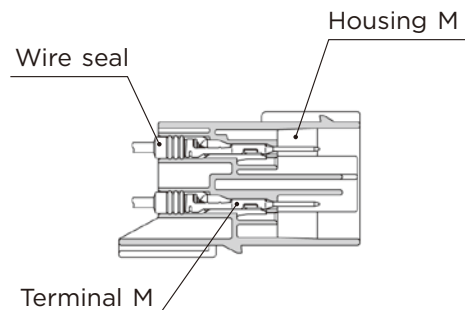
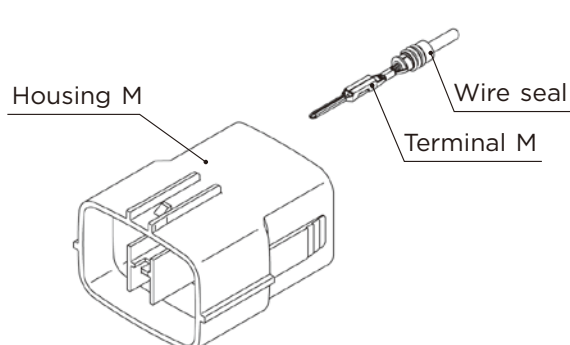
コネクタは、ボデー側のブラケットに直接固定、或いはクランプ（クリップ）を介して固定することができます。

注意：専用の導通治具に関しては弊社営業担当にご確認下さい。

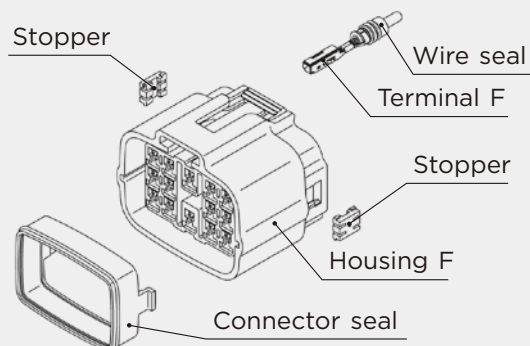
SL SEALED SERIES for STANDARD

1.5mm (060)

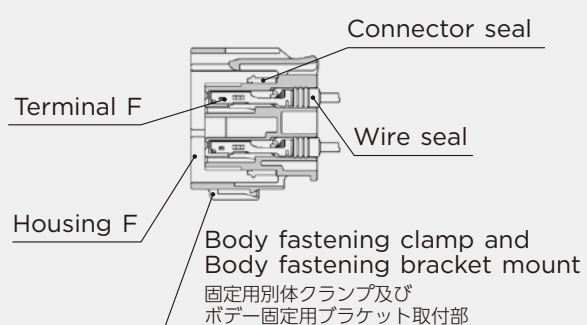
Structure



Connector M



Connector F



1.5mm (060)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

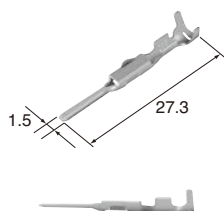
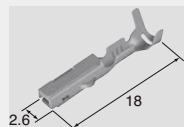
Terminal (UNIT : mm)

※ For terminal selection, please contact our sales staff.

※ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

(S)

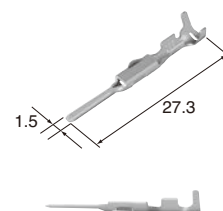
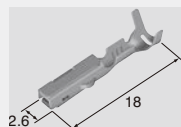
Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3388)****F (8100-3397)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)**Au**

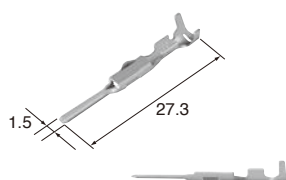
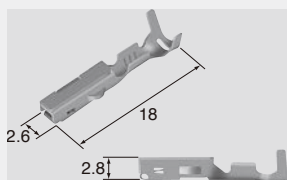
Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

**M (8100-3504)****F (8100-3402)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(M)

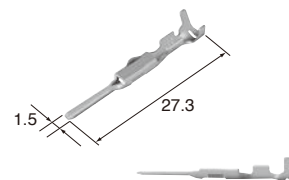
Cable size (mm²)	0.75~0.85
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3389)****F (8100-3398)**

Cable size (mm²)	0.75~0.85
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)**Au****M (8100-3403)**

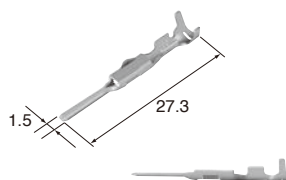
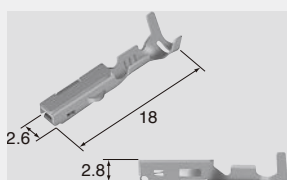
Cable size (mm²)	0.75~0.85
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

**K-03**

SL SEALED SERIES

(L)

Cable size (mm²)	1.25~2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

**M (8100-3390)****F (8100-3399)**

Cable size (mm²)	1.25~2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

1.5mm (060)

Wire seals (UNIT : mm)

Ref; 1.5mm Terminal detail

S (7165-0516) K-07

M (7165-0515) K-07

L (7165-0514) K-07

- Male / Female Shared
- M、F 共用です。

1.5mm (060)

Dummy plugs (UNIT : mm)

Ref; 1.5mm Dummy plug detail

(7165-0193) K-07

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

K-04

1.5mm (060)

Housing (UNIT : mm)

Ref: Terminal part No. K-02

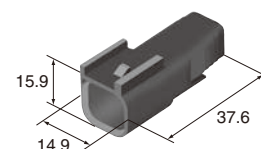
Ref: wire seal No. K-04

Ref: Dummy plug No. K-04

Material PBT

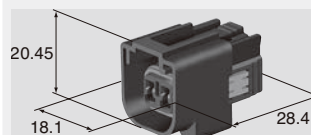
2way

Color Black



M (6181-6614)

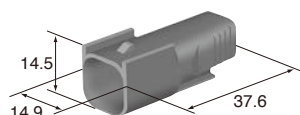
F (6189-1076)



Color Black

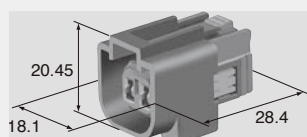
2way

Color Dark Gray



M (6181-6509)

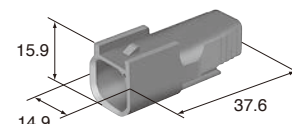
F (6189-1073)



Color Dark Gray

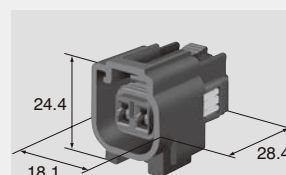
2way

Color Black



M (6181-6492)

F (6189-1115)

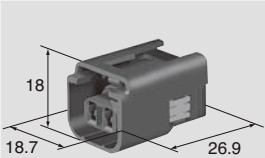


Color Black

Note K-11
Clamp:TYPE1

2way

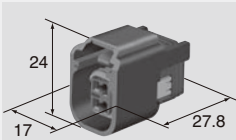
F (6189-1147)



Color Black

2way

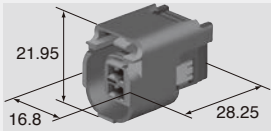
F (6189-1144)



Color Black

2way

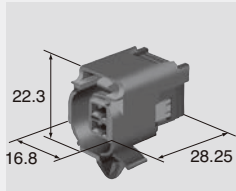
F (6189-1150)



Color Dark Gray

2way

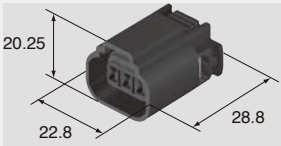
F (6189-1149)



Color Dark Gray

3way

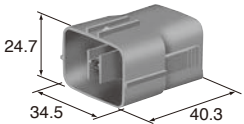
F (6189-7115)



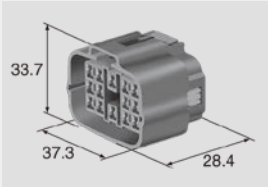
Color Black

14way

Color Dark Gray



M (6181-0629)



Color Dark Gray

Note K-11
Clamp:TYPE1

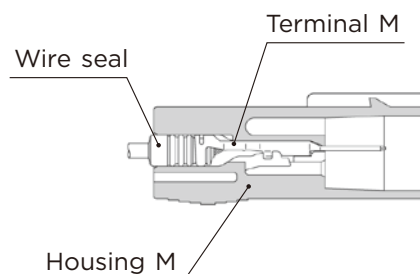
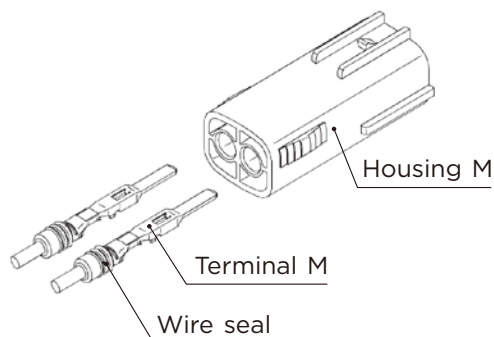
K-05

SL SEALED SERIES

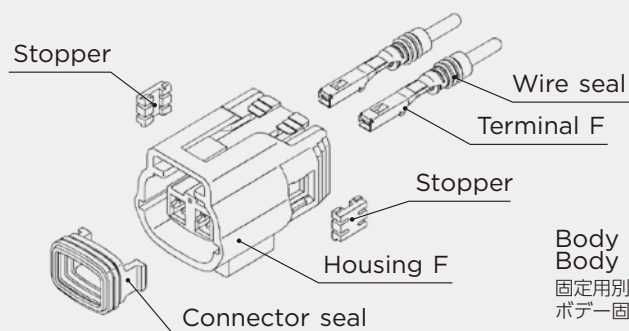
SL SEALED SERIES for STANDARD

2.3mm (090)

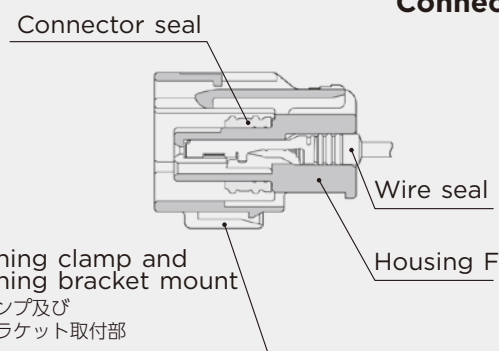
Structure



Connector M



Connector F



Body fastening clamp and
Body fastening bracket mount
固定用別体クランプ及び
ボデー固定用ブラケット取付部

2.3mm (090)

Terminal (UNIT : mm)

Ref; 2.3mm Terminal detail

S	M (8230-4472)	F (8100-1427)	M-03
S	M (1500-0159)	F (8100-1458)	M-03
M	M (8230-4562)	F (8100-1429)	M-03
M	M (1500-0169)	F (8100-1460)	M-03
L	M (8230-4552)	F (8100-1428)	M-03
L	M -	F (8100-1459)	M-03

Regarding "Gold-plated Terminal", please refer "M-03".
AuメッキターミナルはM-03ご参照

2.3mm (090)

Wire seals (UNIT : mm)

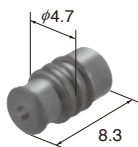
- Male / Female Shared
- M、F 共用です。

(S)**(7165-0516)**

Cable overall diameter(mm) Over than 1.4 mm below 1.6 mm

Material Silicone

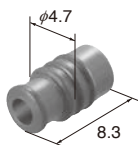
Color Black

**(L)****(7165-0514)**

Cable overall diameter(mm) Over than 2.4 mm below 2.7 mm

Material Silicone

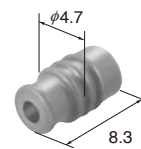
Color Dark Green

**(M)****(7165-0515)**

Cable overall diameter(mm) Over than 1.6 mm below 2.4 mm

Material Silicone

Color Gray

**2.3mm (090)****Dummy plugs** (UNIT : mm)

Ref; 2.3mm Dummy plug detail

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

2.3mm (090)**Housing** (UNIT : mm)

Ref: Terminal part No. K-06

Ref: wire seal No. K-06

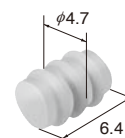
Ref: Dummy plug No. K-07

Material PBT

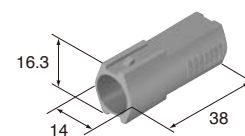
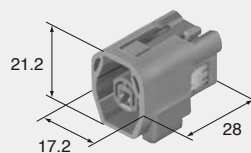
(P5)**(7165-0193)**

Material Silicone

Color Green

**1way**

Color Dark Gray

**M (6181-0436)****F (6189-0639)**

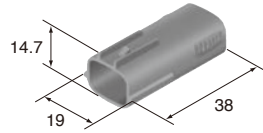
Color Dark Gray

Note K-11
Clamp:TYPE1**K-07**

SL SEALED SERIES

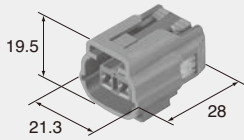
2way

Color Dark Gray



M (6181-0437)

F (6189-8152)

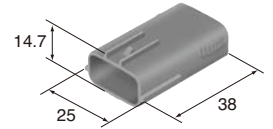


Color Dark Gray

Note K-11
Clamp:TYPE1

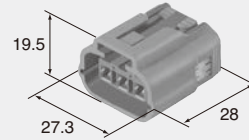
3way

Color Dark Gray



M (6181-0438)

F (6189-7784)

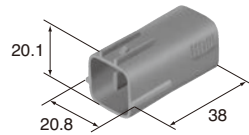


Color Dark Gray

Note K-11
Clamp:TYPE1

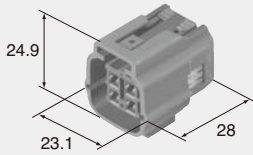
4way

Color Dark Gray



M (6181-0439)

F (6189-0643)

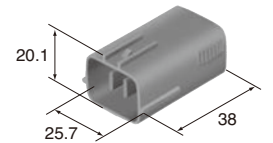


Color Dark Gray

Note K-11
Clamp:TYPE1

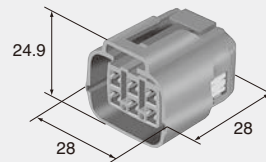
6way

Color Dark Gray



M (6181-0440)

F (6189-0648)



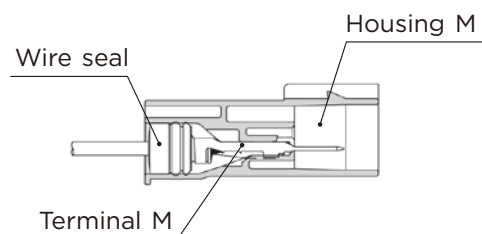
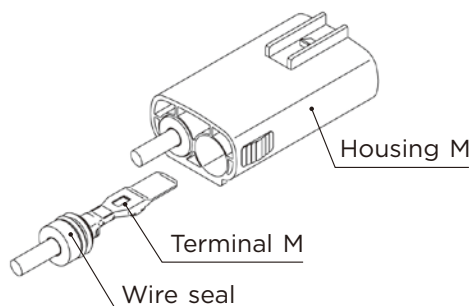
Color Dark Gray

Note K-11
Clamp:TYPE1

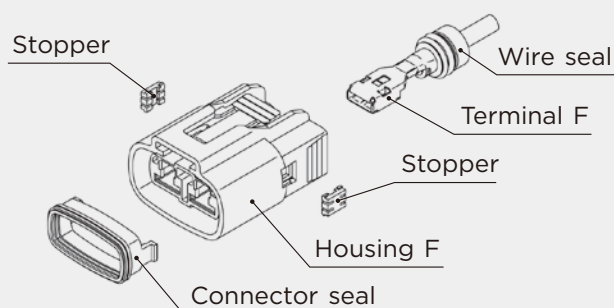
SL SEALED SERIES for STANDARD

8.0mm (312)

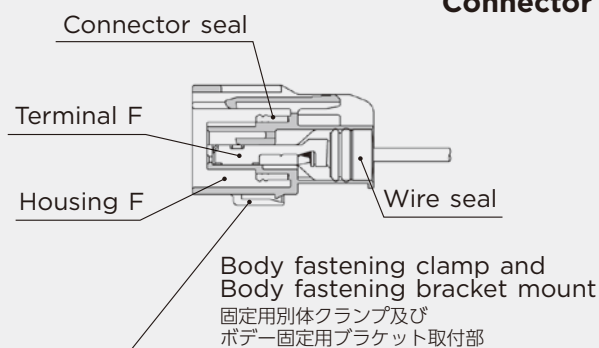
Structure



Connector M



Connector F



K-09

SL SEALED SERIES

8.0mm (312)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Tin-plated	: Snメッキ

Terminal (UNIT : mm)

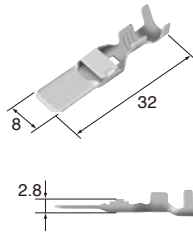
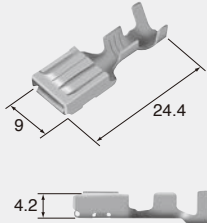
※ For terminal selection, please contact our sales staff.

※ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

(M)Cable size (mm²) 2.0~3.0

Material Brass

Surface treatment Tin-plated

**M (8100-3259)****F (8100-3257)**Cable size (mm²) 2.0~3.0

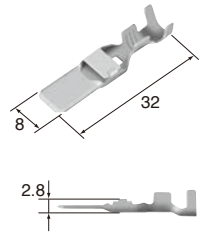
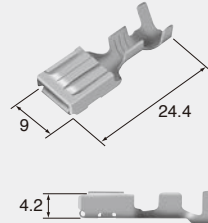
Material Heat-resistant copper alloy

Surface treatment Tin-plated

(L)Cable size (mm²) 5.0~8.0

Material Brass

Surface treatment Tin-plated

**M (8100-3260)****F (8100-3258)**Cable size (mm²) 5.0~8.0

Material Heat-resistant copper alloy

Surface treatment Tin-plated

K-10

8.0mm (312)

Wire seals (UNIT : mm)

Ref; 8.0mm Wire Seals detail

SS (7165-0683) B-25**S (7165-0400)** B-25**M (7165-0392)** B-25**L (7165-0393)** B-25

- Male / Female Shared
- M、F 共用です。

8.0mm (312)

Dummy plugs (UNIT : mm)

Ref; 8.0mm Dummy plug detail

(7165-0180) B-26

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

8.0mm (312)

Housing (UNIT : mm)

Ref: Terminal part No. K-09

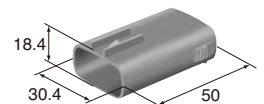
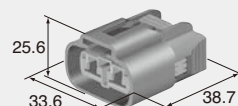
Ref: wire seal No. B-25

Ref: Dummy plug No. B-26

Material PBT

2way

Color Dark Gray

**M (6181-0613)****F (6189-0915)**

Color Dark Gray

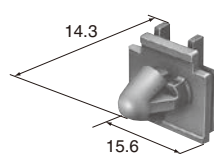
Note K-11
Clamp:TYPE1

SL SEALED SERIES CONNECTOR ACCESSORIES

Type 1

(6810-1584)

Material	PBT
Color	Brown
hole size	7.2×10.2
Plate thickness range for clamp クランプ適合板厚	t=0.7～2.0



Mounting clip (mm)

Mounting clip can be installed on the standard type connectors.
※ The detail dimensions for the mounting portion are specified on the drawing.

1.5mm 標準・2.3mm 標準・8.0mm 標準のコネクタには、ボデー固定用クランプを必要に応じて取付けることができます。
※取付部詳細寸法は、別途図面により規定します。

K-11

SL SEALED SERIES

DL SERIES



Features

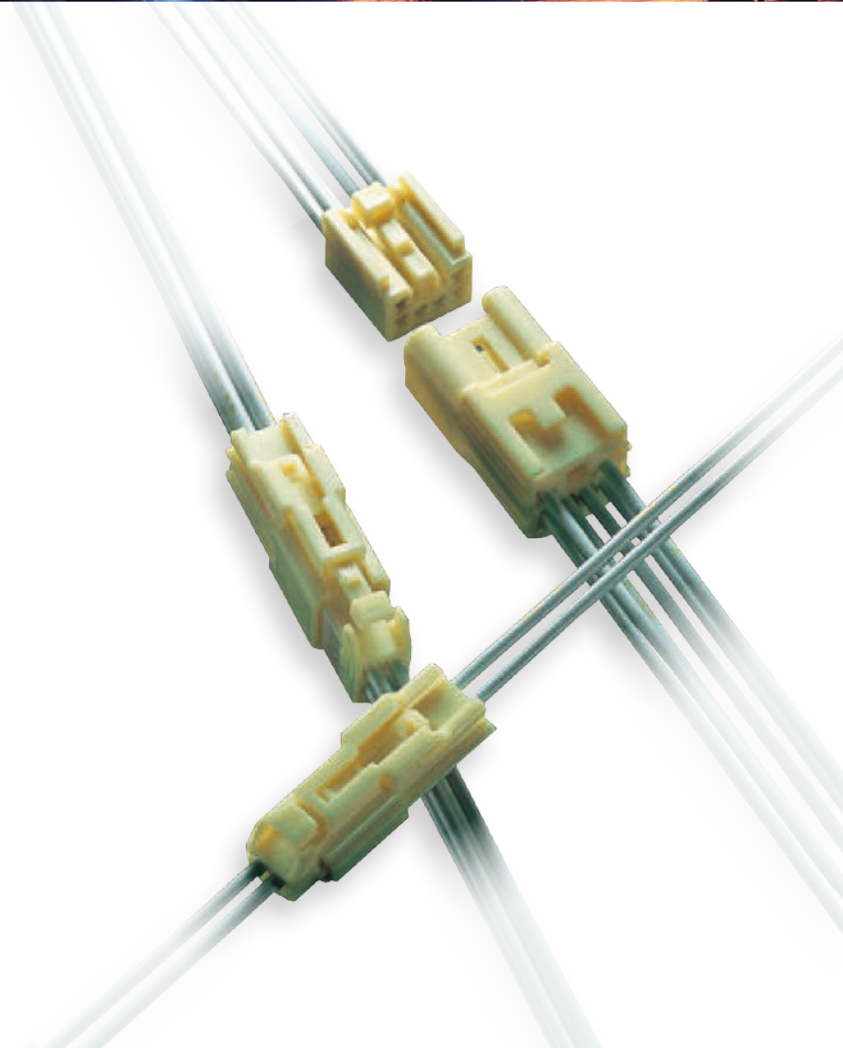
The DL connector series has a mechanism that detects when terminals are not inserted completely.

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.

特 長

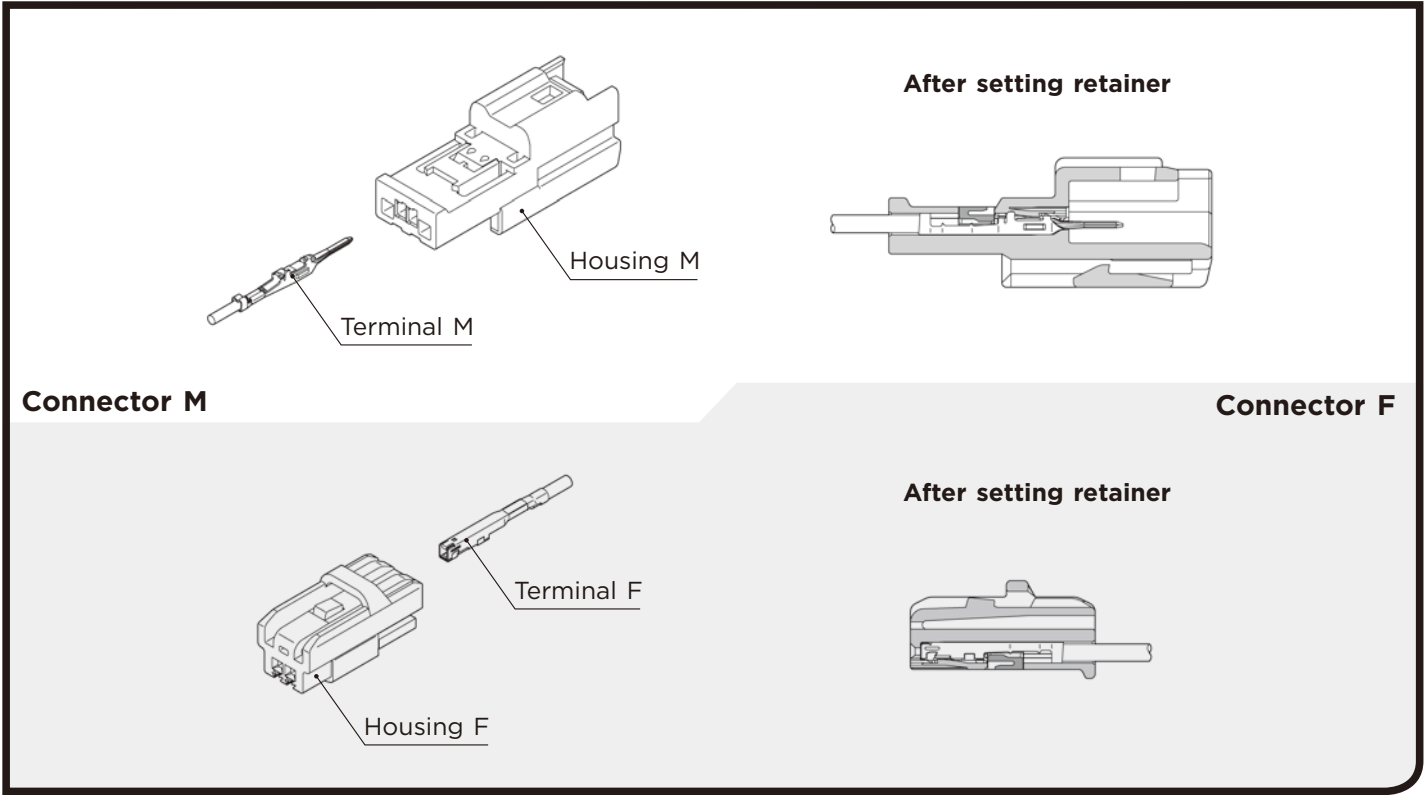
DL シリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。コネクタはボデー側のブラケットに直接固定することができます。



DL SERIES for STANDARD

0.64mm(025)

Structure



0.64mm(025)

Terminal (UNIT : mm)

Ref; 0.64mm Terminal detail

S	M(8100-4028)	F(8100-4029)	C-06
M	M(8100-4027)	F(8100-4030)	C-06

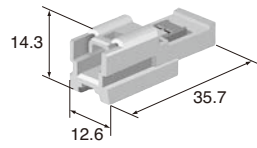
0.64mm(025)

Housing (UNIT : mm)

Ref: Terminal part No.	C-05
Material	PBT

2way

Color Natural



M(6098-4569)

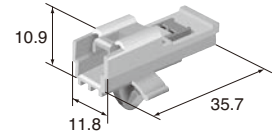
Color Natural

Note

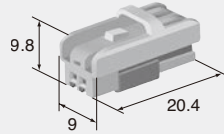
with clip for oval hole
回り止めクランプ付

Plate thickness range for clamp;
t=0.6~2.0mm
Hole=7.2mm×10.2mm

M(6098-4567)



F(6098-4565)



Color Natural

L-03

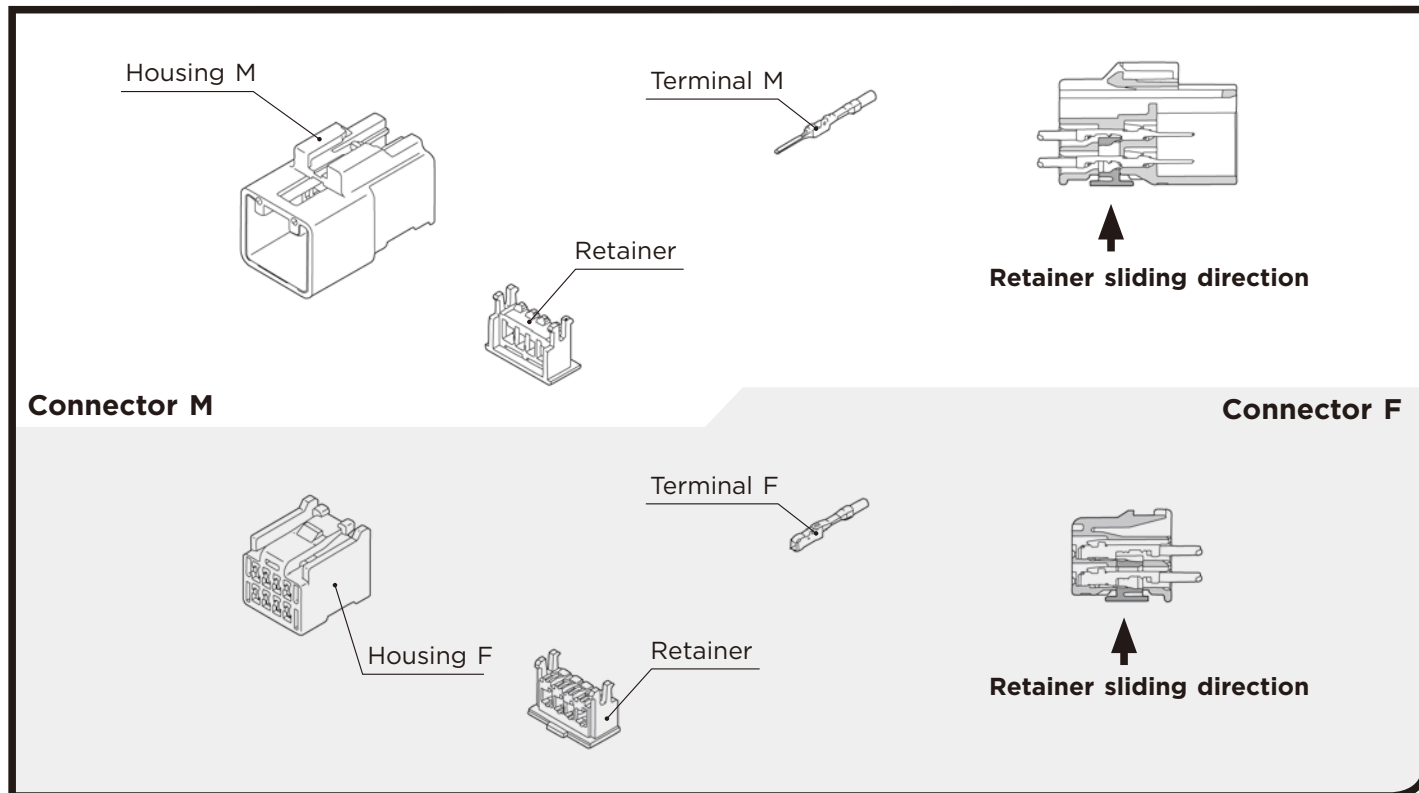
DL SERIES

DL SERIES for STANDARD

1.0mm (040)

This connector has a terminal pitch of 2.5 mm.
端子間ピッチ2.5mmのコネクタです。

Structure



1.0mm (040)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

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.

※ Surface treatment of gold-plated is available to meet your needs.

Thick size is for the time being now.

※ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

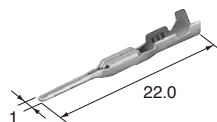
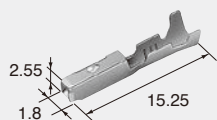
注) Mサイズターミナルの使用出来るコネクタは限定されます。必ず弊社営業担当にお問い合わせください。

※ Auメッキ仕様については、必要に応じ設定は可能です。
尚、太物サイズについては、現在の所、暫定とさせていただきます。

(S)Cable size (mm²) 0.3~0.5

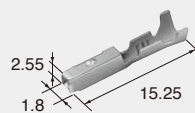
Material Brass

Surface treatment Tin-plated

**M(8100-2512)****F(8100-1710)**Cable size (mm²) 0.3~0.5

Material Heat-resistant copper alloy

Surface treatment Tin-plated

(S)**Au****F(8240-0300)**Cable size (mm²) 0.3~0.5

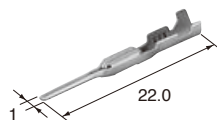
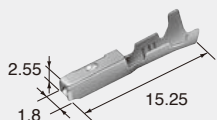
Material Heat-resistant copper alloy

Surface treatment Gold-plated

(M)Cable size (mm²) 0.75, 0.85~1.25

Material Brass

Surface treatment Tin-plated

**M(8100-2513)****F(8100-2514)**Cable size (mm²) 0.75, 0.85~1.25

Material Heat-resistant copper alloy

Surface treatment Tin-plated

1.0mm(040)**Housing** (UNIT : mm)

Ref: Terminal part No. L-04

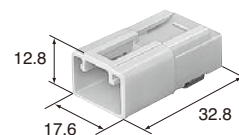
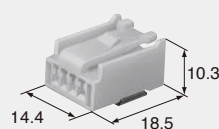
Material PBT

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

注) M サイズターミナルの使用出来るコネクタは限定されます。必ず弊社営業担当にお問い合わせください。

4way

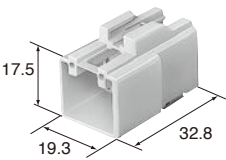
Color Natural

**M(6098-2158)****F(6098-2013)**

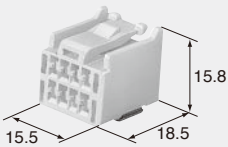
Color Natural

8way

Color Natural



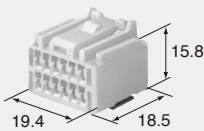
M(6098-2206) F(6098-2208)



Color Natural

12way

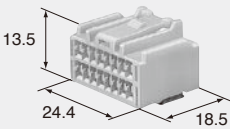
F(6098-2289)



Color Natural

16way

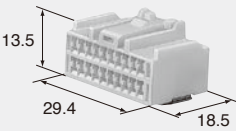
F(6098-1624)



Color Natural

20way

F(6098-1626)

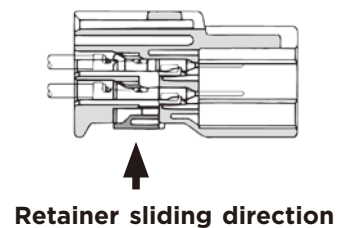
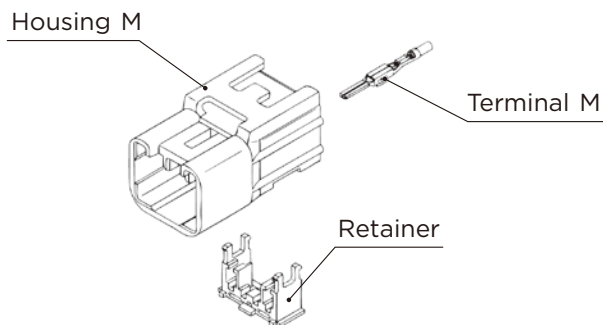


Color Natural

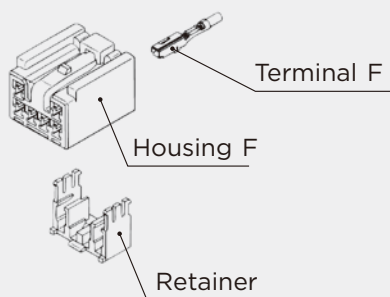
DL SERIES for STANDARD

2.3mm(090)

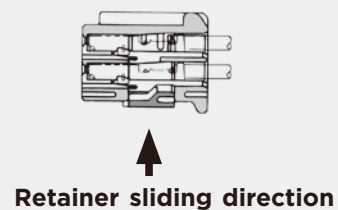
Structure



Connector M



Connector F



L-07

DL SERIES

2.3mm(090)

Terminal (UNIT : mm)

Ref; 2.3mm Terminal detail

S	M(8230-4492)	F(8240-4882)	A-11
M	M(8230-4502)	F(8240-4892)	A-11
L	M(8230-4512)	F(8240-4942)	A-11

Regarding "Gold-plated Terminal", please refer "A-11".
AuメッキターミナルはA-11ご参照

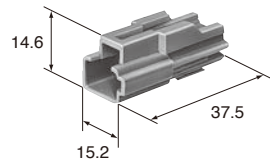
2.3mm(090)

Housing (UNIT : mm)

Ref: Terminal part No.	A-10
Material	PA6T

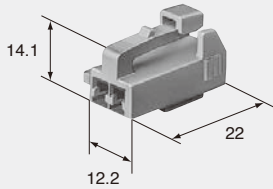
2way

Color Natural



M(6249-1248)

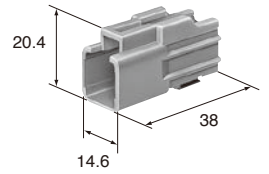
F(6249-1251)



Color Natural

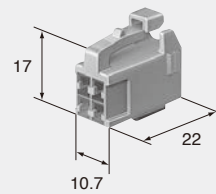
4way

Color Natural



M(6249-1249)

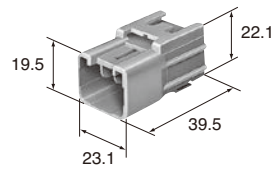
F(6249-1252)



Color Natural

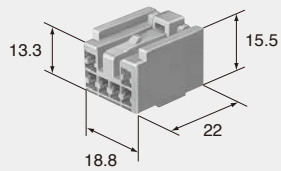
6way

Color Natural



M(6249-1250)

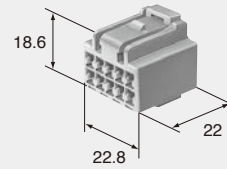
F(6249-1253)



Color Natural

10way

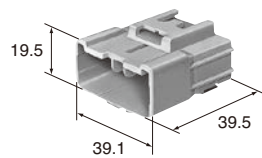
F(6248-5311)



Color Natural

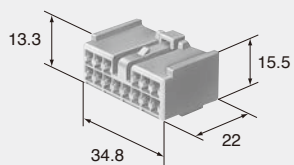
14way

Color Natural



M(6249-1265)

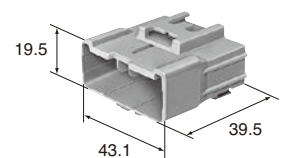
F(6248-5309)



Color Natural

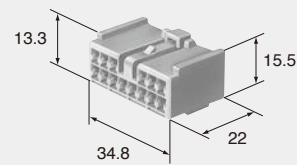
16way

Color Natural



M(6249-1266)

F(6248-5310)



Color Natural

DL SEALED SERIES



Features

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

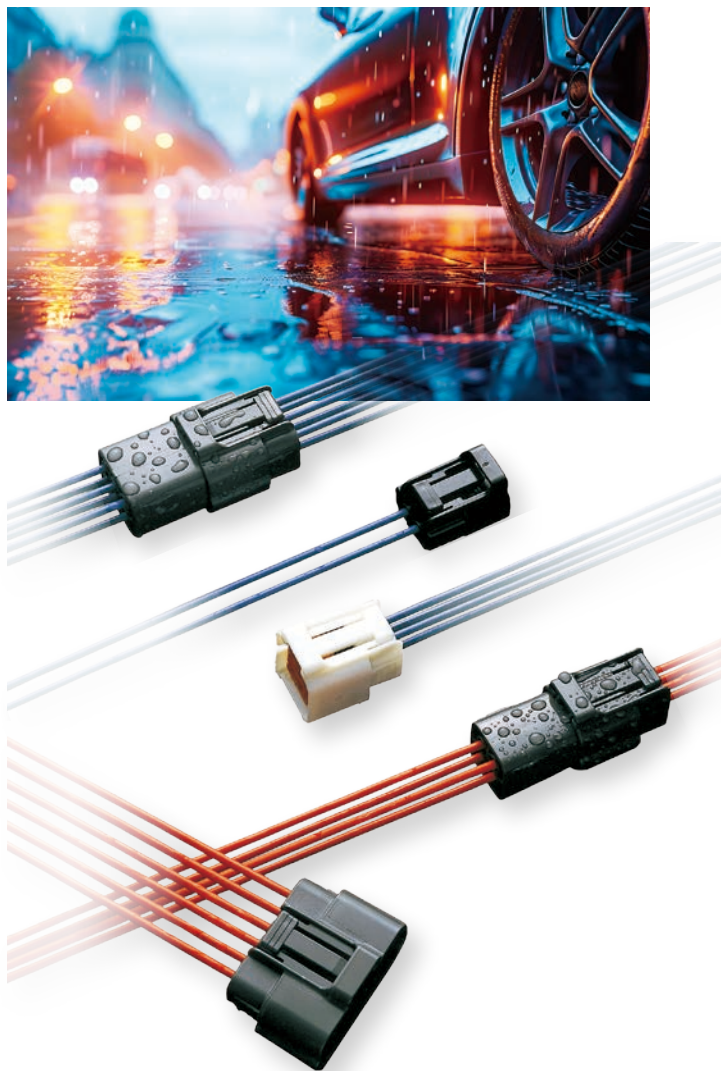
The connector mechanism only allows the retainer to be set when the terminal is completely inserted.

These connectors can be directly secured to a bracket on the car body. In addition, an extra clip can be attached to the connector to secure it to the car body.

特 長

DL 防水シリーズは、挿入不足のターミナルを検知する機構を備えたコネクタシリーズです。ターミナルが半挿入の状態では、リテーナが装着できない機構になっています。

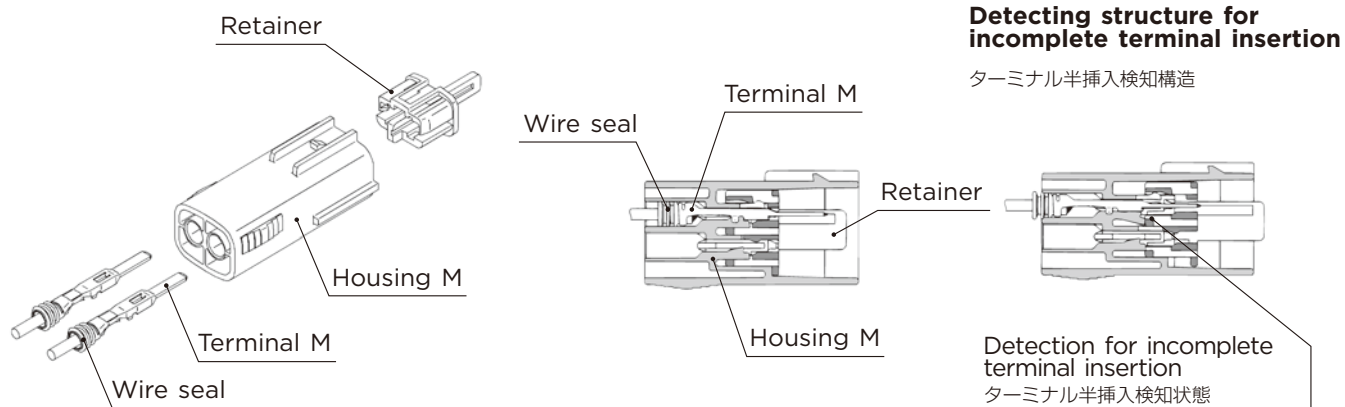
コネクタは、ボデー側のブラケットに直接固定、或いはクランプ（クリップ）を介して固定することができます。



DL SEALED SERIES for STANDARD

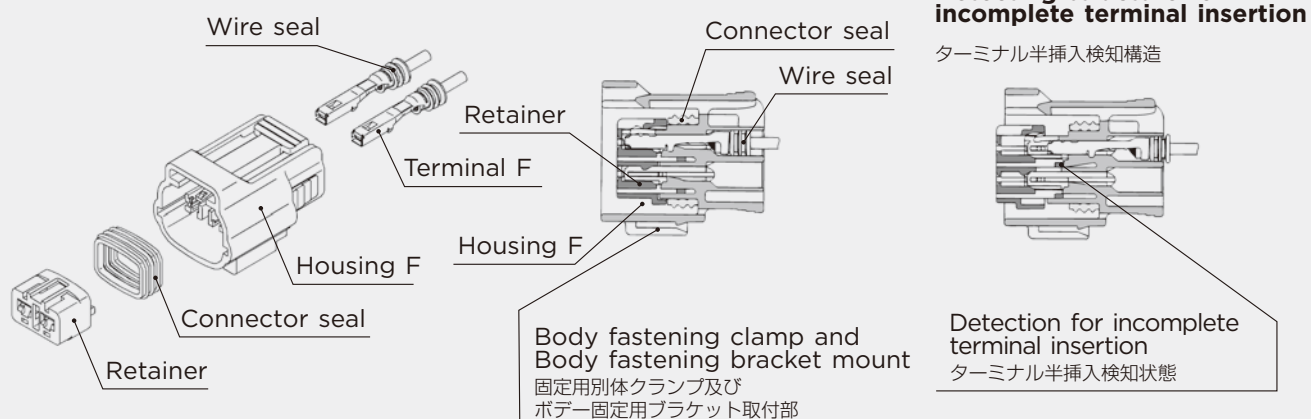
2.3mm(090)

Structure



Connector M

Connector F



2.3mm(090)

(E)	(J)
Cable size	: 適用電線サイズ
Cable overall diameter	: 電線仕上り外径
Heat-resistant copper alloy	: 耐熱銅合金
Brass	: 黄銅
Surface treatment	: 表面処理
Gold-plated	: Auメッキ
Tin-plated	: Snメッキ

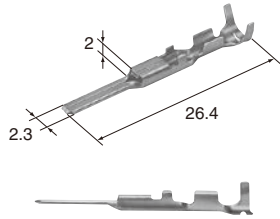
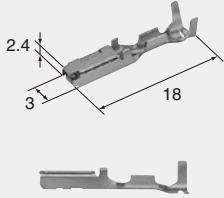
Terminal (UNIT: mm)

※ For terminal selection, please contact our sales staff.

※ターミナル選定にあたっては、必ず弊社営業担当にお問い合わせください。

(S)

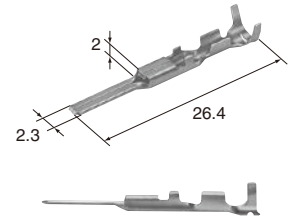
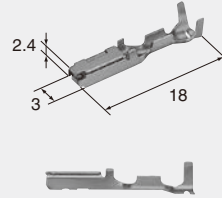
Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Tin-plated

**M(8230-4472)****F(8100-1427)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(S)**Au**

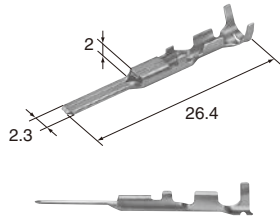
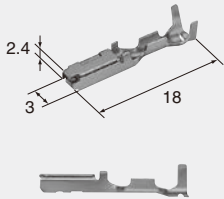
Cable size (mm²)	0.3~0.5
Material	Brass
Surface treatment	Gold-plated

**M(1500-0159)****F(8100-1458)**

Cable size (mm²)	0.3~0.5
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(M)

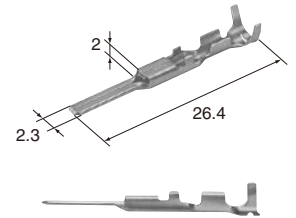
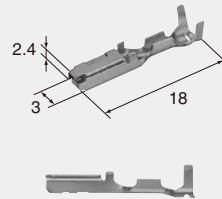
Cable size (mm²)	0.75~0.85
Material	Brass
Surface treatment	Tin-plated

**M(8230-4562)****F(8100-1429)**

Cable size (mm²)	0.75~0.85
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(M)**Au**

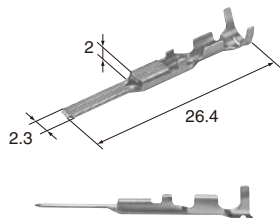
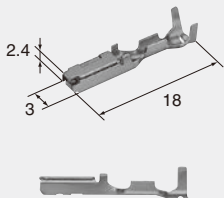
Cable size (mm²)	0.75~0.85
Material	Brass
Surface treatment	Gold-plated

**M(1500-0169)****F(8100-1460)**

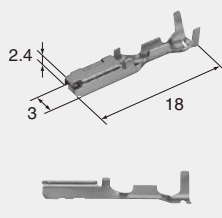
Cable size (mm²)	0.75~0.85
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

(L)

Cable size (mm²)	1.25~2.0
Material	Brass
Surface treatment	Tin-plated

**M(8230-4552)****F(8100-1428)**

Cable size (mm²)	1.25~2.0
Material	Heat-resistant copper alloy
Surface treatment	Tin-plated

(L)**Au****F(8100-1459)**

Cable size (mm²)	1.25~2.0
Material	Heat-resistant copper alloy
Surface treatment	Gold-plated

M-03

DL SEALED SERIES

2.3mm (090)

Wire seals (UNIT : mm)

- Male / Female Shared.
- M、F 共用です。

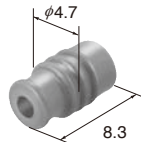
(M)

(7165-0515)

Cable overall diameter(mm) Over than 1.6 mm below 2.4 mm

Material Silicone

Color Gray



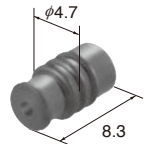
(S)

(7165-0516)

Cable overall diameter(mm) Over than 1.4 mm below 1.6 mm

Material Silicone

Color Black



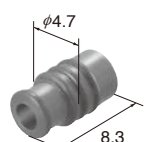
(L)

(7165-0514)

Cable overall diameter(mm) Over than 2.4 mm below 2.7 mm

Material Silicone

Color Dark Green



Note) Below wire seals can be used connectors with insertion cavity specified.

For details, please contact our sales staff.

注) 以下ワイヤーシールの使用できるコネクタは限定されます。
必ず弊社営業担当にお問い合わせください。

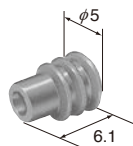
(SS)

(7165-0210)

Cable overall diameter(mm) Over than 1.1 mm below 1.5 mm

Material NBR

Color Red



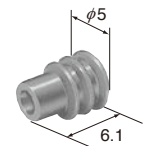
(S)

(7165-0118)

Cable overall diameter(mm) Over than 1.5 mm below 2.0 mm

Material NBR

Color Blue



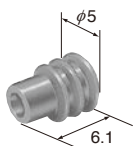
(M)

(7165-0119)

Cable overall diameter(mm) Over than 2.0 mm below 2.9 mm

Material NBR

Color Brown



2.3mm (090)

Dummy plugs (UNIT : mm)

Ref; 2.3mm Dummy plug detail

(7161-9787) B-16

(7165-0193) K-07

- Male / Female Shared
- Dummy plugs are used to blind unused terminal holes.
- M、F 共用です。
- 不必要なターミナル穴を塞ぐために、ダミー栓を使用します。

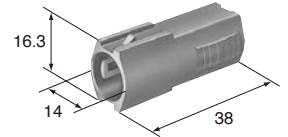
2.3mm (090)

Housing (UNIT : mm)

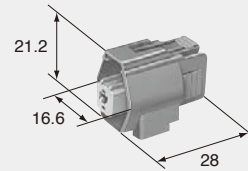
Ref: Terminal part No.	M-02
Ref: wire seal No.	M-04
Ref: Dummy plug No.	B-16 K-07
Material	PBT/PA6T

1way

Material	PBT
Color	Dark Gray



M (6195-0240)

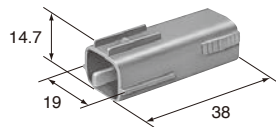


F (6195-0066)

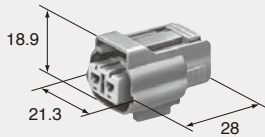
Material	PBT
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

2way

Material	PA6T
Color	Dark Gray



M (6195-0006)

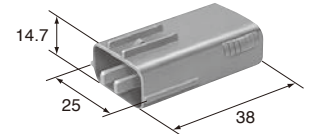


F (6195-0003)

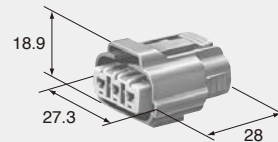
Material	PA6T
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

3way

Material	PA6T
Color	Dark Gray



M (6195-0012)

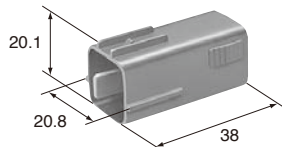


F (6195-0009)

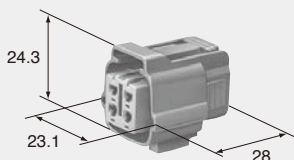
Material	PA6T
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

4way

Material	PA6T
Color	Dark Gray



M (6195-0018)

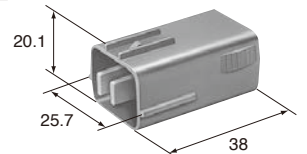


F (6195-0015)

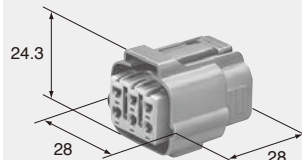
Material	PA6T
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

6way

Material	PA6T
Color	Dark Gray



M (6195-0024)



F (6195-0021)

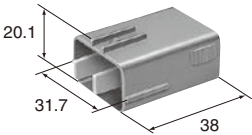
Material	PA6T
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

M-05

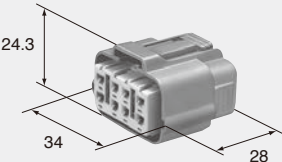
DL SEALED SERIES

8way

Material	PA6T
Color	Dark Gray



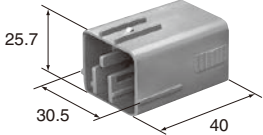
M (6195-0054) F (6195-0051)



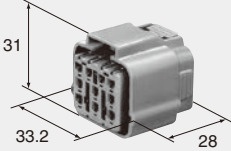
Material	PA6T
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

10way

Material	PBT
Color	Light Gray



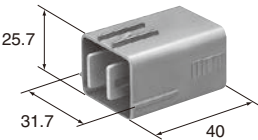
M (6195-0167) F (6195-0164)



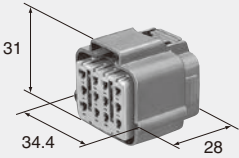
Material	PBT
Color	Light Gray
Note	L-07 Bracket Clamp : TYPE2

12way

Material	PBT
Color	Dark Gray



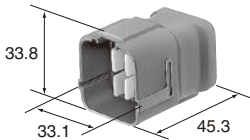
M (6195-0152) F (6195-0149)



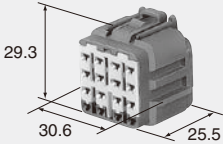
Material	PBT
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE2

16way

Material	PBT
Color	Dark Gray
Note	L-07 Bracket Clamp : TYPE1



M (6188-0495) F (6189-0715)



Material	PBT
Color	Dark Gray

DL SEALED SERIES CONNECTOR ACCESSORIES

Mounting clip (mm)

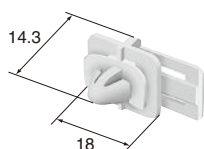
Mounting clip can be installed on the standard type connectors.
※ The detail dimensions for the mounting portion are specified on the drawing.

2.3mm 標準のコネクタには、ボデー固定用クランプを必要に応じて取付けることができます。
※取付部詳細寸法は、別途図面により規定します。

Type 1

(6810-2653)

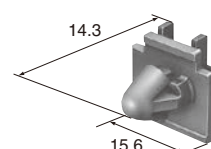
Material	PA6T
Color	Natural
hole size	φ 7.0
Plate thickness range for clamp クランプ適合板厚	t=0.6~1.6



Type 2

(6810-1584)

Material	PBT
Color	Brown
hole size	7.2×10.2
Plate thickness range for clamp クランプ適合板厚	t=0.7~2.0



M-07

DL SEALED SERIES

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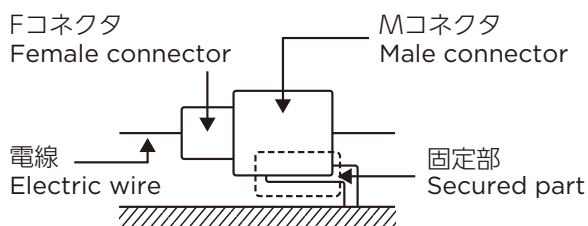
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車輛搭載時の注意事項

Notes when the connector is mounted on a vehicle.

- コネクタの車両搭載上の取り扱い注意事項については、下記の内容をご考慮いただき、十分評価し、性能上問題無いことをご確認の上ご使用ください。その他使用条件はコネクタ取扱説明書、仕様書をご覧ください。
- Ensure the following contents, and confirm there is no problem with the performance of the connector before use. As for other operating conditions, refer to the connector Instruction Manuals & Specifications.



No.	Figure
1	コネクタは必ず固定してください。 ✓ Secure it properly.
2	電線を固定してください。 ✓ Wires are secured. 電線に張力なし No tension applied to the wires ⓪ Insecure Loose wires. 電線フリーは NGです。
3	コネクタに張力がかからないようにしてください。 ✓ Secure No tension applied to the wires ⓪ Insecure Wire is stretched. 張力はNGです。 ⓪ Insecure Wire is stretched. 張力はNGです。
4	電線取り出し方向にご注意ください。 ✓ Secure Horizontal ⓪ Insecure Vertical 上向きはNGです。 The wire is removed upward.

5	飛び石が想定される部位の使用はご遠慮ください。 ⓪ The connector is used without a cover or other protections where a stone may hit.
6	✓ 水没位置での使用はご遠慮ください。 ⓪ The connector is used under the submerged condition.
7	補水作業の影響を受ける場所の使用はご遠慮ください。 The connector is used in an area where it may be affected by the following fluids when replenishing them. ⓪ Battery ⓪ Radiator ⓪ Washer tank
8	一方のコネクタから空気を開放してください。 Electric wires (Equipment) Sealed connector ✓ One of the connectors shall be open.
9	ダミーピンの後端面が、飛び出さないようにしてください。 ✓ Secure The ends are aligned. ⓪ The dummy plug is inserted too deeply. ⓪ The dummy plug sticks out of the connector end.



CAUTION

WARNING

- Do not exceed prescribed current to the connectors.
- Do not use a broken or cracked housing.
- Do not use a deformed or rusty terminal.

- 規定の電流値を超えて使用しないでください。
- 割れたりヒビが入ったハウジングは使用しないでください。
- 変形したり、錆びたターミナルは使用しないでください。



Which may result in overheating or fire. 発熱・発火の恐れがあります！

Precautions concerning the selection and use of connectors

- To select a suitable connector, please consult with our sales staff about operating environment, mounting conditions, and other information (e.g. unsealed type for indoor compartment use, sealed type for engine compartment use).
- The specifications, and performance of a connector may significantly vary depending on changes in variable elements in the operating environment, such as the number of ways, wire size, ambient temperature, etc.
- The specifications stated in this catalog applies to a single terminal, and is not guaranteed when the terminal is inserted into a housing. For detailed electrical characteristics of each product, see the "Specifications" of the relevant series.
- We have "Specifications" for connector performance and "Instruction Manuals" for connector usage, handling, and precautions, which are available for each connector series. Please be sure to read these in advance to select the appropriate connector and to use it correctly.
- For instruction on how to remove the terminal or details please refer to the instruction manual. Please consult with our sales staff when requesting applicable tools and jigs (terminal removal jigs, crimping dies, crimping machines, etc.).
- Some connector series require special attention during circuit checks, etc.
*For example, dedicated circuit check jigs must be used for "SL series" and "SL sealed series."
- Although some connector specifications include drawings showing mating support, these drawings are provided only for reference. The manufacture of mating parts is not possible without consideration to dimensional tolerances, etc.
- This catalogue includes the parts that was designed and developed jointly with a customer and require prior approval before sales. Please contact our sales staff for details.
- Before using the product, please obtain a "customer drawing" "Specifications" "Instruction Manuals" from our sales staff. Please contact our sales staff for details.
- Product designs or specifications on this site may be subject to change without notice. Please be understood that products on this site may be discontinued without notice.

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自然保護のため、再生紙を使用しています。L2512M0000

Printed on recycled paper for conservation of the nature.
Printed in Japan, as of March, 202512M0000