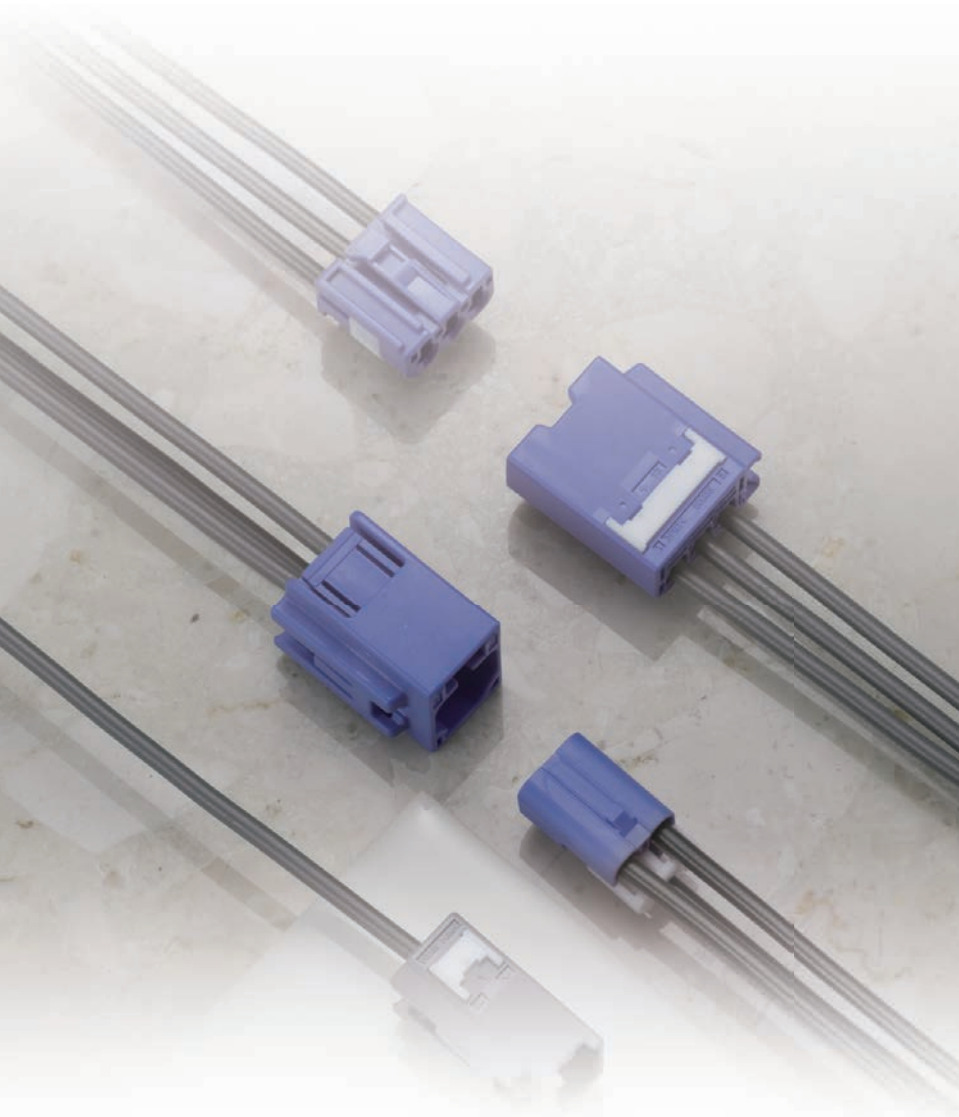


HFC III SERIES



Features

HFC III (High Frequency Connector) series are connectors that connect on-board multimedia devices, such as GPS, TV, VICS and etc., and coaxial wires. These are also suitable for mobile telephone and sensor circuit.

- It reduces reflection/transmission loss and restrains noise radiation. It achieved smaller size with higher performance.
- Hybrid types for high frequency coaxial wire and automobile wire (AV) are established. (It supports diversity receiving system).
- Retainer for secondary lock is preloaded and the structure allows the high frequency coaxial wire and AV wire to be set by one operation. Therefore improvement of assembling operation can be planned.
- RoHS/ELV Compliant

特長

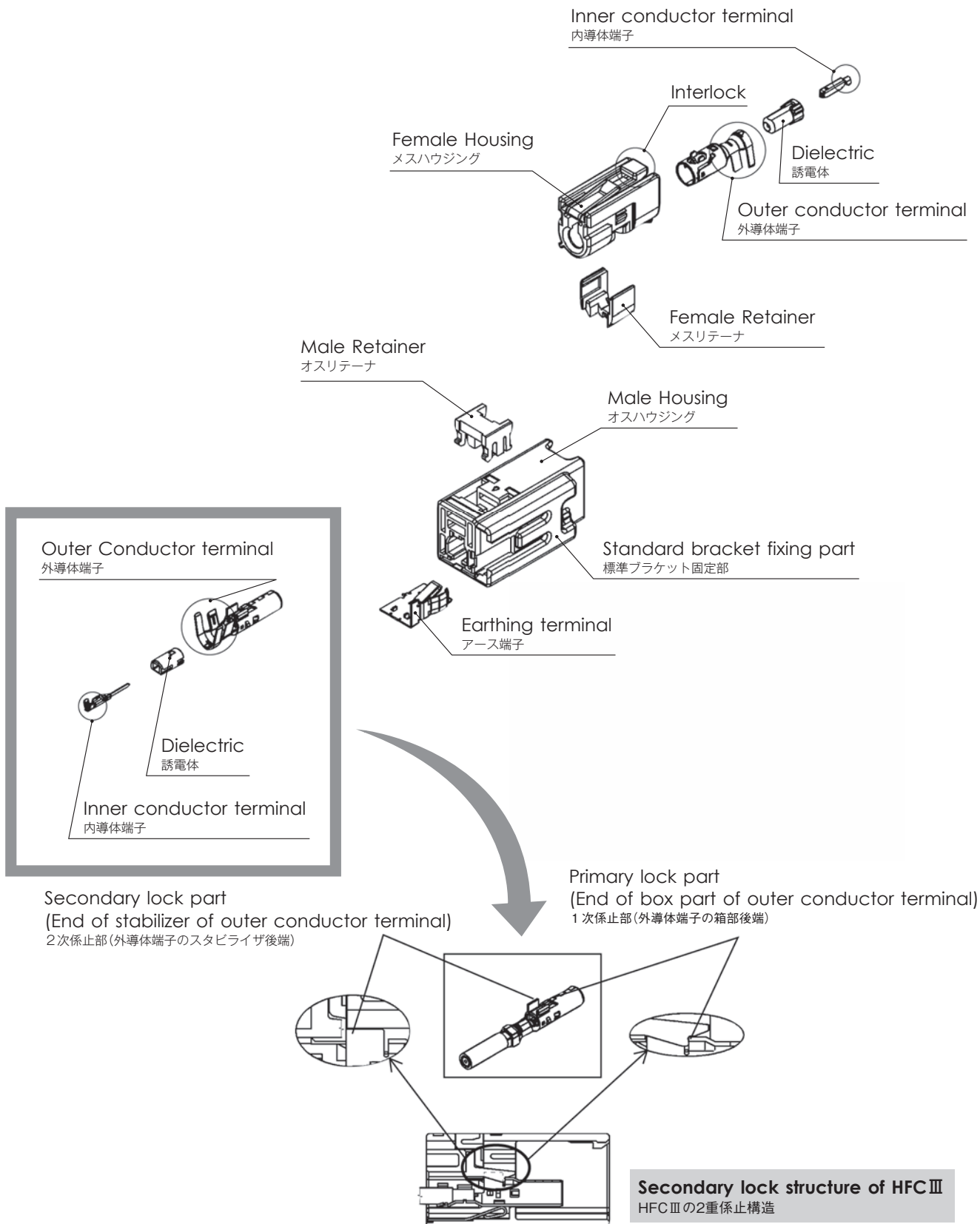
HFC IIIシリーズ（高周波コネクタ）はGPS・TV・VICSなどの車載マルチメディア機器と同じ同軸線の接続用コネクタで車載電話・センサ回路にも適したコネクタです。

- 伝送損失、反射、ノイズ放射を抑制し、小型高性能化を実現しています。
- 高周波同軸線と自動車用電線（AV）のハイブリッドタイプを設定しています。（ダイバシティ受信方式に対応しています。）
- 二重係止用リテーナは予め組み付けられており、高周波同軸線とAV線が同一作業でセットできる構造により、組み付け作業の向上が図れます。
- RoHS / ELV 対応

HFC III SERIES for STANDARD

Structure / 構造

M-02



Secondary lock structure of HFC III
HFC IIIの2重係止構造

Basic specification / 基本仕様

| | | | | |
|-------------------------------|---------------------|--|-----------------------------|--------------|
| Type | | 1 way coaxial wire 2 way coaxial wire + 1 way AV wire 2 way coaxial wire + 2 way AV wire 3 way coaxial wire 4 way coaxial wire + 2 way AV wire | | |
| Contact resistance 接触抵抗 | Coaxial wire 同軸線 | Max. 20mΩ (Initial / 初期) | | |
| | AV wire AV線 | Max. 8mΩ (Initial / 初期) | | |
| Insulation resistance 絶縁抵抗 | | Min. 100MΩ | | |
| Working temperature 使用温度 | | -40°C ~ +105°C | | |
| VSWR | 75Ω系 | ~180MHz | Wire to Wire PCB to Wire | Max. 1.2 |
| | | ~770MHz | Wire to Wire PCB to Wire | |
| | 50Ω系 | | ~3GHz | Wire to Wire |
| | | PCB to Wire | | Max. 1.3 |

| | | | |
|----------------|------------|------------------------|--|
| Material 材質 | M Terminal | Inner conductor 内導体 | Brass (Sn plating) 黄銅 (Snメッキ) |
| | | Outer conductor 外導体 | 黄銅 (Snメッキ) |
| | F Terminal | Inner conductor 内導体 | Heat resistant cooper-alloy (Au plating) 耐熱銅合金 (Auメッキ) |
| | | Outer conductor 外導体 | Brass (Sn plating) 黄銅 (Snメッキ) |

(Note) AV wire = MAX. AVSS 0.5mm² (Terminal is TS 0.64 type: Ref. A-02).
注) AV線=最大AVSS 0.5mm² (ターミナルはTS 0.64: A-02参照)

Inner conductor terminal (mm)

(M)

S (8230-5015) M (8230-5016) L (8230-5017)



(F)

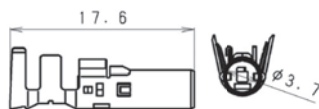
S (8240-0276) M (8240-0277) L (8240-0278)



Outer conductor terminal (mm)

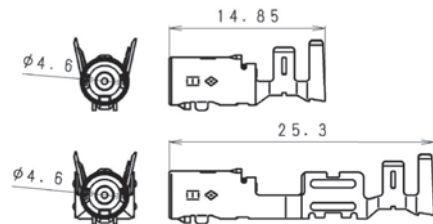
(M)

S (8230-5481) M (8230-5482) L (8230-5484)



(F)

中継用: S (8240-0382) M (8240-0383) F (8240-0619)
ラジオ用: S (8240-0387) M (8240-0388)



(Note) The terminal for radio can connect a condenser inside. On this occasion, a common crimping terminal is necessary.

注) ラジオ用端子は、内部にコンデンサを接続することが可能です。その際、共圧着端子 (8110-4493) が必要となります。

Applicable coaxial wire / 適用同軸線

| Applicable coaxial wire (Note 1) 適用同軸線 注1) | 1.5C-2V | 1.5C-2W | 1.5D-2V | 1.5D-2W | 2.5D |
|---|---------|---------|---------|---------|------|
| Inner conductor terminal 内導体端子 | S | S | M | M | L |
| Outer conductor terminal 外導体端子 | S | M | S | S | F |

(Note 1) For some coaxial wire and wire makers, it might be inapplicable. Please contact our sales representative for more details.

注1) 同軸線、電線メーカーによっては適用できないことがありますので弊社営業担当にお問い合わせ下さい

(Note 2) When crimping the forming coaxial wire, need the sleeve.

注2) 発泡同軸線を圧着する場合は、スリーブが必要となります。

Housing (UNIT : mm)

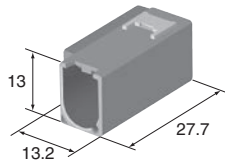
Ref: Terminal part No.
ターミナル参照頁

coaxial wire
同軸線 M-03

AV wire
AV線 A-02

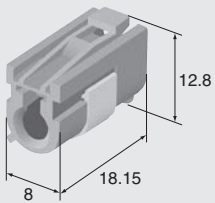
1way coaxial wire Rib R1

Color Blue
色相 青



M (6098-7143)

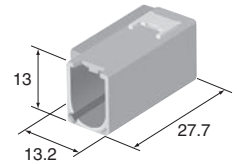
F (6098-6321)



Color Blue
色相 青

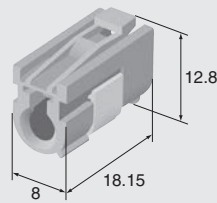
1way coaxial wire Rib L1

Color Gray
色相 灰



M (6098-6835)

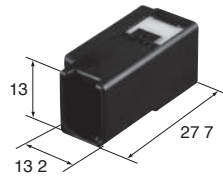
F (6098-6323)



Color Gray
色相 灰

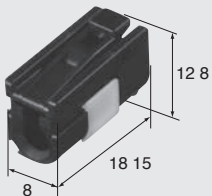
1way coaxial wire Rib R2

Color Black
色相 黒



M (6098-7544)

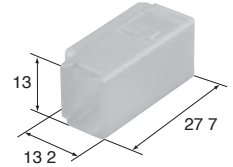
F (6098-7445)



Color Black
色相 黒

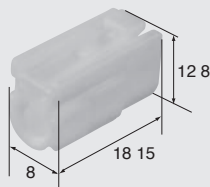
1way coaxial wire Rib L2

Color Natural
色相 自然色



M (6098-7546)

F (6098-7446)

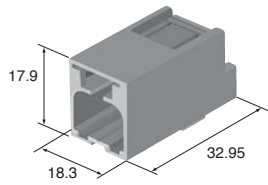


Color Natural
色相 自然色

M-04

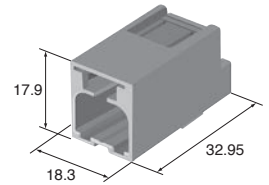
2 way coaxial wire + 1 way AV wire **Rib R**

Color 色相 Gray 灰



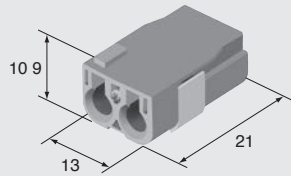
M (6098-6331)

Color 色相 Gray 灰



F (6098-6336)

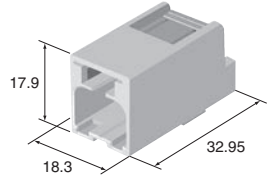
M (6098-6373)



Color 色相 Gray 灰

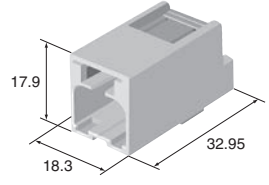
2 way coaxial wire + 1 way AV wire **Rib L**

Color 色相 Natural 自然色



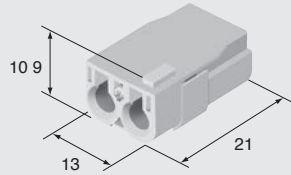
M (6098-6328)

Color 色相 Natural 自然色



F (6098-6333)

M (6098-6370)

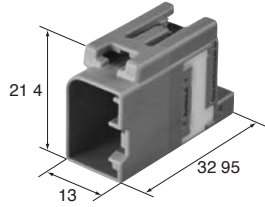


Color 色相 Natural 自然色

M-05
HFC III SERIES

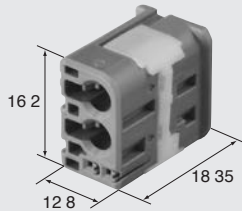
2 way coaxial wire + 2 way AV wire **Rib R**

Color 色相 Gray 灰



M (6098-7151)

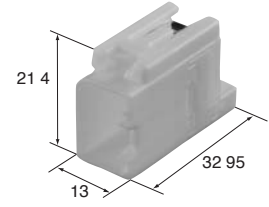
F (6098-7153)



Color 色相 Gray 灰

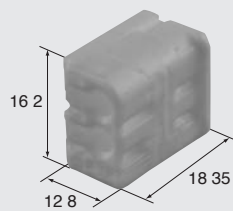
2 way coaxial wire + 2 way AV wire **Rib L**

Color 色相 Natural 自然色



M (6098-7145)

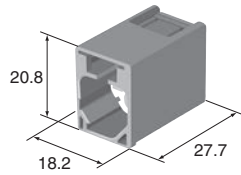
F (6098-7148)



Color 色相 Natural 自然色

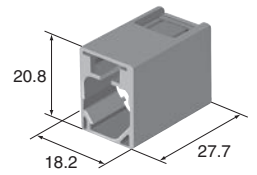
3 way coaxial wire

Color Blue
色相 青



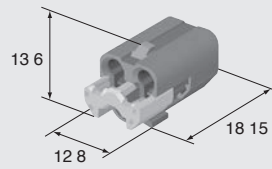
M (6098-6340)

Color Blue
色相 青



M (6098-6369)

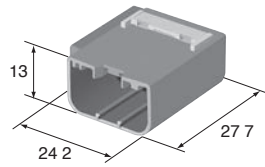
F (6098-6343)



Color Blue
色相 青

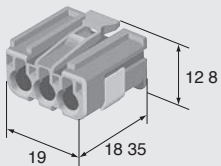
3 way coaxial wire

Color Blue
色相 青



M (6098-6838)

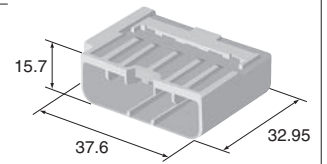
F (6098-6841)



Color Blue
色相 青

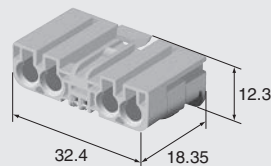
4 way coaxial wire + 2 way AV wire

Color Natural
色相 自然色



M (6098-6844)

F (6098-6702)



Color Natural
色相 自然色

M-06

HFC III SERIES

for PCB

Housing (UNIT: mm)

M-07

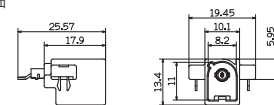
HFC III SERIES

1 way coaxial wire

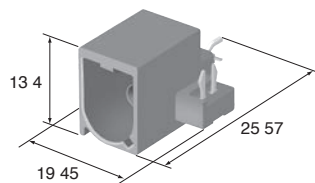
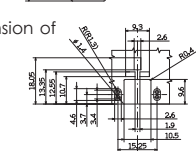
M (6098-6157)

Through Hall Type (Rib R)

● Detailed dimension
寸法詳細



● Recommended dimension of
Circuit board
基板推奨詳細



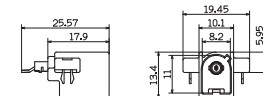
Connector F part No.
Fコネクタ品番 6098-6321 (M-04)
Color
色 相 Blue
青

1 way coaxial wire

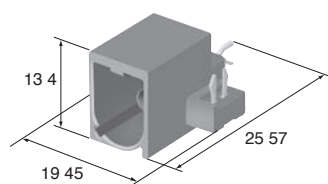
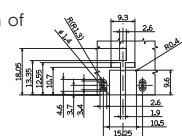
M (6098-6159)

Through Hall Type (Rib L)

● Detailed dimension
寸法詳細



● Recommended dimension of
Circuit board
基板推奨詳細



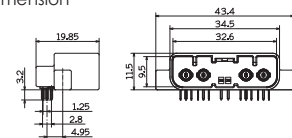
Connector F part No.
Fコネクタ品番 6098-6323 (M-04)
Color
色 相 Gray
灰

4 way coaxial wire + 2 way AV wire

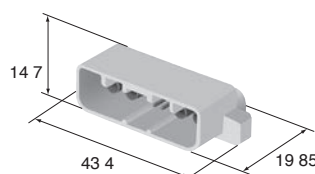
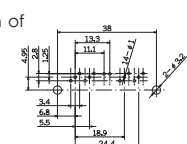
M (6098-6700)

Through Hall Type

● Detailed dimension
寸法詳細



● Recommended dimension of
Circuit board
基板推奨詳細



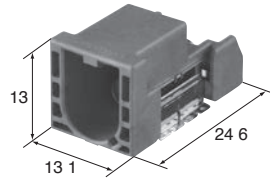
Connector F part No.
Fコネクタ品番 6098-6702 (M-06)
Color
色 相 Natural
自然色

1 way coaxial wire

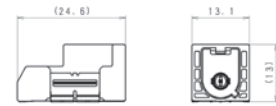
SMT Type (Rib R1)

M (6098-7132)

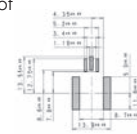
Connector F part No. 6098-6321 (M-04)
 Fコネクタ品番
 Color Blue
 色相 青



●Detailed dimension
 寸法詳細



●Recommended dimension of
 Circuit board
 基板推奨詳細

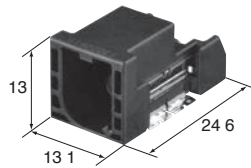


1 way coaxial wire

SMT Type (Rib R2)

M (6098-7449)

Connector F part No. 6098-7445 (M-04)
 Fコネクタ品番
 Color Black
 色相 黒



●Detailed dimension
 寸法詳細



●Recommended dimension of
 Circuit board
 基板推奨詳細



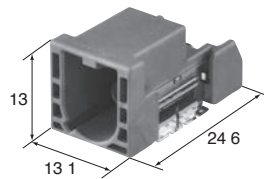
M-08

1 way coaxial wire

SMT Type (Rib L1)

M (6098-7134)

Connector F part No. 6098-6323 (M-04)
 Fコネクタ品番
 Color Gray
 色相 灰



●Detailed dimension
 寸法詳細



●Recommended dimension of
 Circuit board
 基板推奨詳細

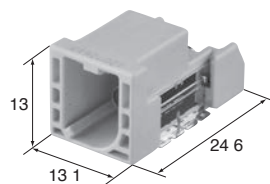


1 way coaxial wire

SMT Type (Rib L2)

M (6098-7450)

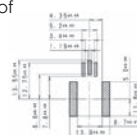
Connector F part No. 6098-7446 (M-04)
 Fコネクタ品番
 Color Natural
 色相 自然色



●Detailed dimension
 寸法詳細



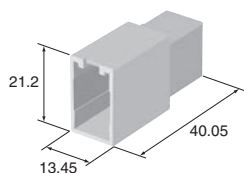
●Recommended dimension of
 Circuit board
 基板推奨詳細



HFC III SERIES for RADIO

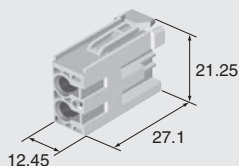
2 way coaxial wire + 1 way AV wire

Color
色相 Natural
自然色



M (6098-6861)

F (6098-6037)



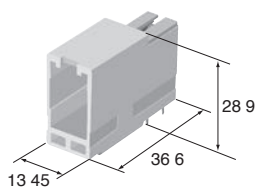
Color
色相 Natural
自然色

2 way coaxial wire + 1 way AV wire

M (6098-5761)

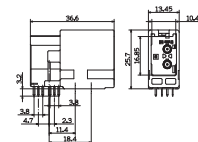
Connector F part No.
Fコネクタ品番 6098-6037 (M-09)

Color
色相 Natural
自然色

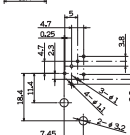


Through Hall Type

● Detailed dimension
寸法詳細



● Recommended dimension of
Circuit board
基板推奨詳細



M-09

HFC III SERIES