

HFCV SERIES

Features

The HFCV Series (High-frequency coaxial connectors) are optimized for in-vehicle image transmission, featuring excellent impedance matching and low-loss design.

With superior noise immunity, they minimize signal degradation in demanding automotive environments.

These connectors support high-speed serial data transmission standards like GVIF (Gigabit Video Interface) and GMSL (Gigabit Multimedia Serial Link), enabling stable and high-speed transmission of high-resolution camera video.

Furthermore, while offering the vibration and heat resistance required for automotive applications, the HFCV Series achieves a more compact size compared to conventional coaxial connectors.

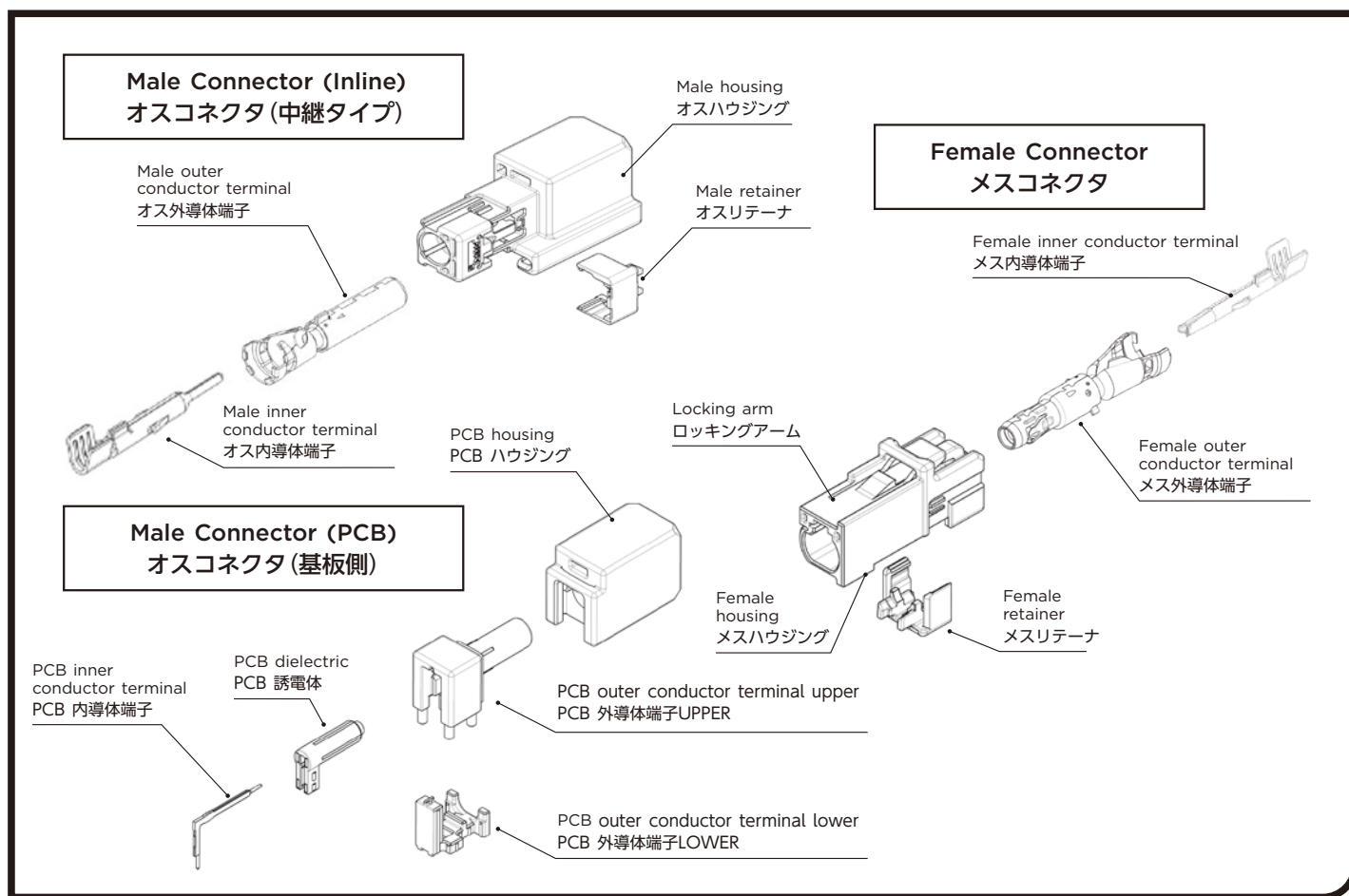
This allows for installation in tight spaces, contributing to vehicle weight reduction and space saving.

特 長

HFCV シリーズ（高周波コネクタ）は、車載画像伝送に最適化された同軸コネクタで、優れたインピーダンス整合性と低損失設計を採用しています。ノイズ耐性に優れ、車載環境における信号劣化を最小限に抑制します。GVIF (Gigabit Video Interface) や GMSL (Gigabit Multimedia Serial Link) などの高速シリアルデータ伝送規格に対応しており、高解像度カメラ映像の安定かつ高速な伝送を実現します。

また、車載用途に求められる耐振動・耐熱性能を備えつつ、従来の同軸コネクタに比べて小型化を実現。狭小スペースへの搭載が可能で、車両の軽量化および省スペース化に貢献します。

Structure／構造



Basic specification／基本仕様

Contents 項目	Performance 性能
Low voltage current resistance 低電圧電流抵抗	Max 10mΩ (Initial／初期)
Insulation resistance 絶縁抵抗	between terminals/poles Min 100MΩ
Working temperature 使用温度	-40℃～+105℃

Communication performance／通信性能

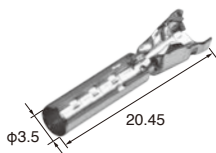
Contents 項目	Test Specification 試験規格	Maximum Parameters リミット/最大パラメータ
RL	USCAR-49	$\leq -17.5\text{dB}$ @ $0.01 \leq f \leq 2\text{GHz}$ $\leq -14\text{dB}$ @ $2\text{GHz} \leq f \leq 6\text{GHz}$ $\leq -12\text{dB}$ @ $6\text{GHz} \leq f \leq 7\text{GHz}$ $\leq -10\text{dB}$ @ $7\text{GHz} \leq f \leq 9\text{GHz}$
Shield シールド		$\leq -62\text{dB}$ @ $0.1\text{GHz} \leq f \leq 2\text{GHz}$ $\leq -55\text{dB}$ @ $2\text{GHz} \leq f \leq 5\text{GHz}$ $\leq -50\text{dB}$ @ $5\text{GHz} \leq f \leq 9\text{GHz}$

HFCV SERIES Terminal

Conductor Terminal

(M) Outer conductor terminal assy 外導体端子ASSY

8230-6209



Material

Dielectric(Natural color)
誘電体(自然色) PBT

Outer conductor terminal
外導体端子 Heat-resistant
copper alloy(Tin-plated)
耐熱銅合金(Snめっき)

(M) Inner conductor terminal 内導体端子

8230-6210



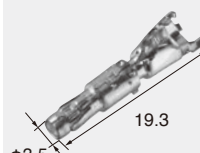
Material

Brass(Tin/Au-plated)
黄銅(Sn/Auめっき)

Applicable coaxial wire for Terminal assy
適用同軸電線 1.5D-2V

(F) Outer conductor terminal assy 外導体端子ASSY

8240-0916



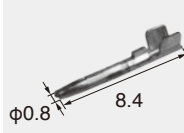
Material

Dielectric(Natural color)
誘電体(自然色) PBT

Outer conductor terminal
外導体端子 Heat-resistant
copper alloy(Tin-plated)
耐熱銅合金(Snめっき)

(F) Inner conductor terminal 内導体端子

8240-0917



Material

Heat-resistant
copper alloy(Tin-plated)
耐熱銅合金(Sn/Auめっき)

Applicable coaxial wire for Terminal assy
適用同軸電線 1.5D-2V

(M) Terminal for AV wire 電源回路用端子

S Size 8230-4878 (Cable size:0.13mm²)

M Size 8100-3622 (Cable size:0.22~0.35mm²)

L Size 8100-3623 (Cable size:0.3~0.5mm²)

Material:Heat-resistant copper alloy 耐熱銅合金(Snめっき)
Surface treatment:Tin-plated

(F) Terminal for AV wire 電源回路用端子

S Size 8240-0182 (Cable size:0.13mm²)

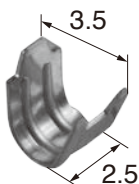
M Size 8100-3624 (Cable size:0.22~0.35mm²)

L Size 8100-3625 (Cable size:0.3~0.5mm²)

Material:Heat-resistant copper alloy 耐熱銅合金(Snめっき)
Surface treatment:Tin-plated

Please refer to the our website for details. 電源回路用端子の詳細は総合カタログ或いはHPをご覧ください。

Sleeve*スリーブ (M)/(F) Shared 共通部品



8110-5655

Material

SUS
ステンレス

HFCV SERIES Housing

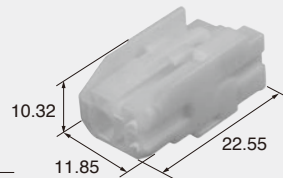
Material : PBT

1 pole coaxial + 2-way AV wire (0.64ll)

F (6099-1564)

PCB Connector part No. 6099-1562

Color Natural



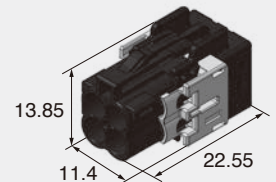
4 poles coaxial

(Key A)

F (6099-1552)

PCB Connector part No. 6099-1548

Color Black



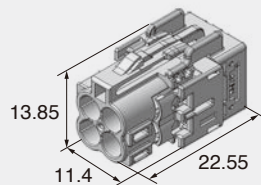
4 poles coaxial

(Key B)

F (6099-1553)

PCB Connector part No. 6099-1549

Color Natural



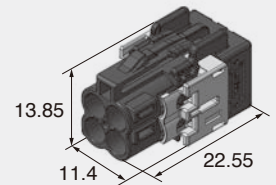
4 poles coaxial

(Key C)

F (6099-1554)

PCB Connector part No. 6099-1550

Color Blue



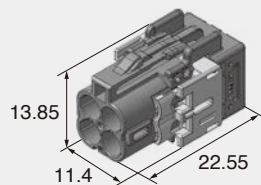
4 poles coaxial

(Key G)

F (6099-1555)

PCB Connector part No. 6099-1551

Color Gray



HFCV SERIES

for PCB

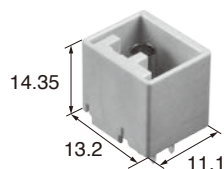
Material : LCP(Housing body)

1 pole coaxial + 2-way AV wire (0.64)

M (6099-1562)

(F) Connector part No. 6099-1564

Color Natural



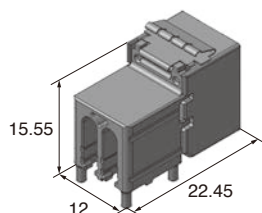
4 poles coaxial

(Key A)

M (6099-1548)

(F) Connector part No. 6099-1552

Color Black



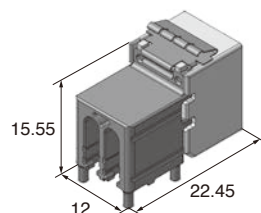
4 poles coaxial

(Key B)

M (6099-1549)

(F) Connector part No. 6099-1553

Color Natural



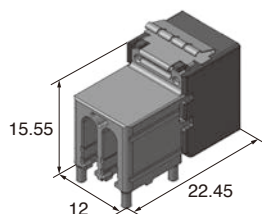
4 poles coaxial

(Key C)

M (6099-1550)

(F) Connector part No. 6099-1554

Color Blue



4 poles coaxial

(Key G)

M (6099-1551)

(F) Connector part No. 6099-1555

Color Gray

