

HFD-S2 SERIES (1Gbps Ethernet)

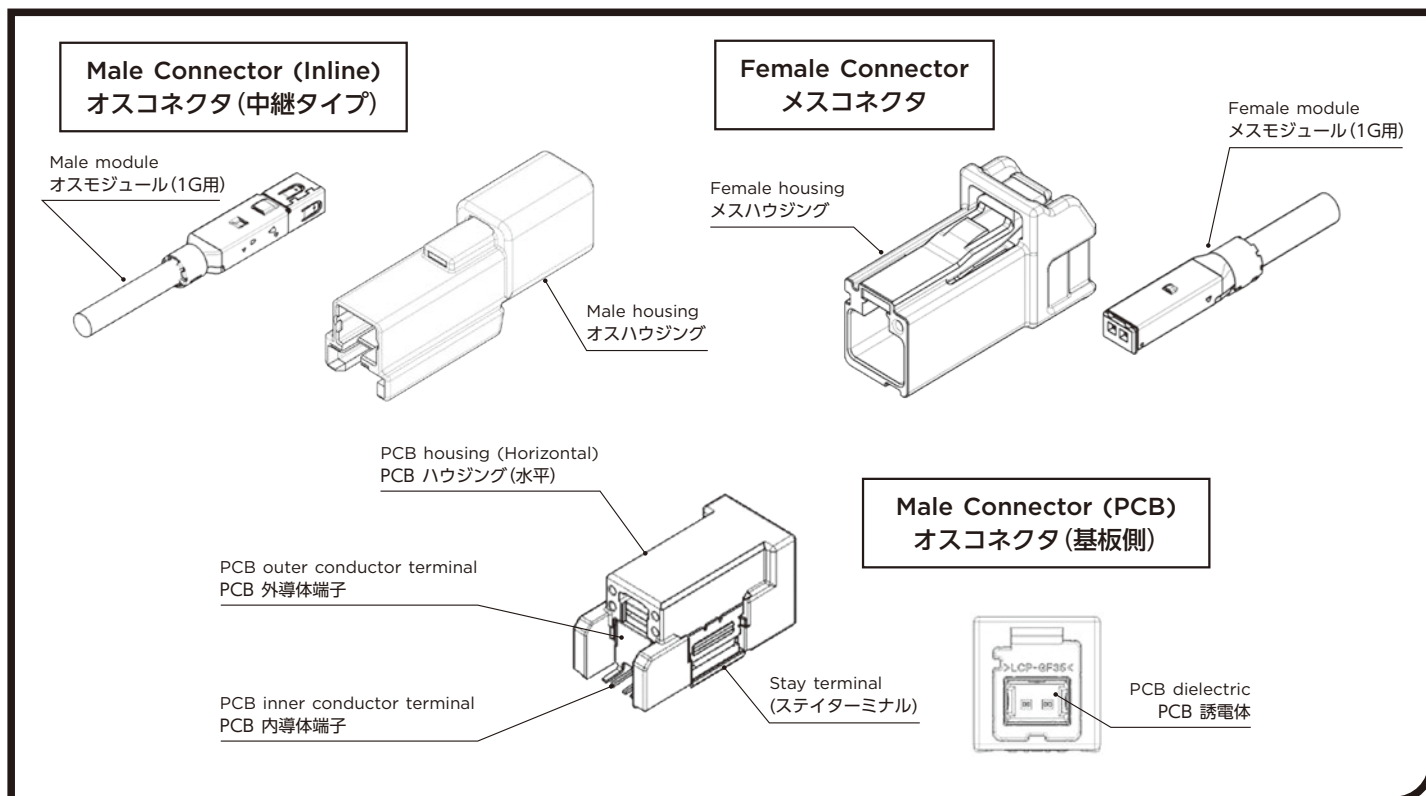
Feature

The HFD-S2 series achieves compatibility with in-vehicle Gigabit Ethernet communication and cost reduction by sharing components with the HFD-U2 series and supporting STP (Shielded Twisted Pair) wires. It conforms to the Open Alliance Channel and Component Requirements for 1000BASE-T1 Link Segment Type A (STP) class 1, which is an in-vehicle Ethernet communication standard.

特長

HFD-S2シリーズは、HFD-U2シリーズと部品共用化し、かつSTP (Shielded Twisted Pair) 電線に対応することで、車載ギガビット Ethernet 通信への適合とコスト削減を両立させています。車載 Ethernet の通信規格である*Open Alliance Channel and Component Requirements for 1000BASE-T1 Link Segment Type A (STP) class1に準拠しております。

Structure / 構造

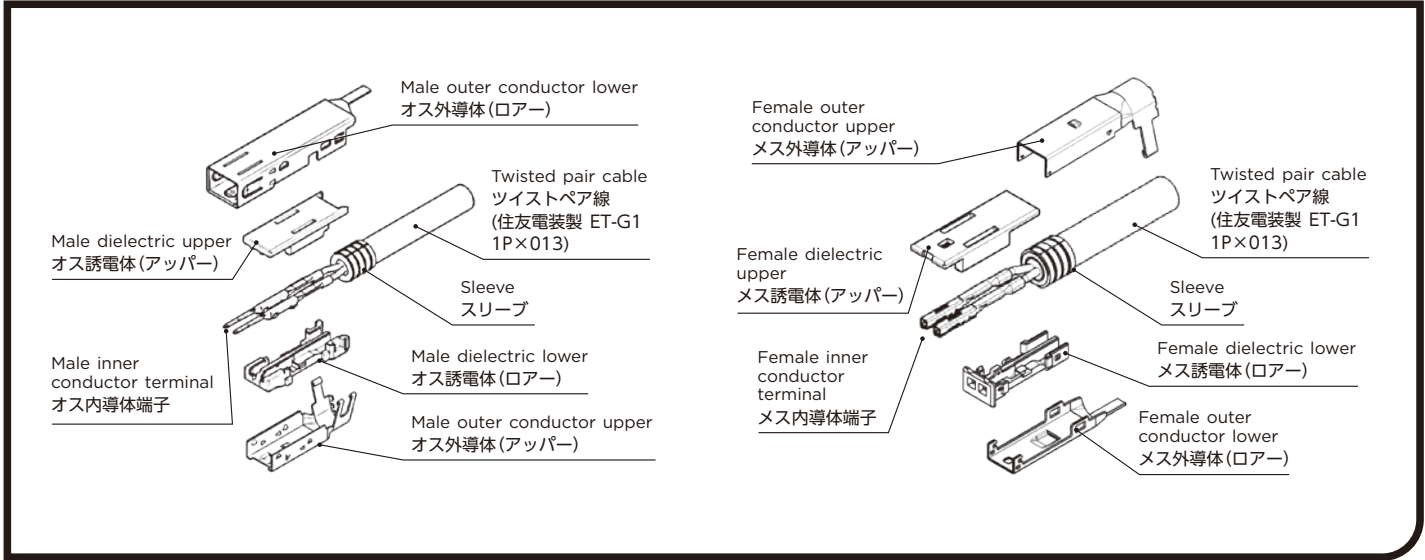


Basic specification / 基本仕様

Contents 項目	Specifications 仕様
Low voltage current resistance 低電圧電流抵抗	Max 10mΩ (Initial / 初期)
Insulation resistance 絶縁抵抗	Min 100MΩ
Working temperature 使用温度	-40°C ~ +85°C

Contents 項目	Specifications 仕様
Transmission characteristics 通信特性	・OPEN Alliance Channel and Component Requirements for 1000BASE-T1 Link Segment Type A (STP) section 6.1.1 and 6.2.1 (class1) shall be satisfied. ・STPケーブルを用いたチャネルの性能要件である16.1.1項および1000BASE-T (コンポーネントの性能要件である)6.2.1項【class1】を満たします。

・OPEN Alliance is an industry consortium promoting the adoption of Automotive Ethernet.
 ・OPEN Alliancelは、車載Ethernetを普及するための業界団体です。車載Ethernetの採用促進、相互接続性の確保のためのガイドラインや要件の整備、テスト仕様の策定や評価方法の整備に携わっています。

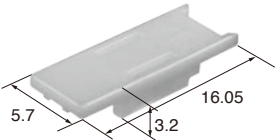


HFD-S2 SERIES Module Components, Terminal (Sleeve)

Ref : P12 HFD-U2 Inner Conductor Terminal detail.
(M)8230-5939 (F)8240-0697

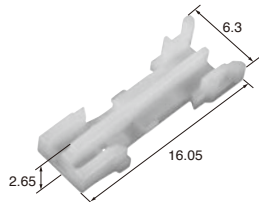
Module / モジュール

(M) Dielectric upper 誘電体アッパー



Parts No.	6910-9331
Material	PBT
Color	Natural

(M) Dielectric lower 誘電体ロアー



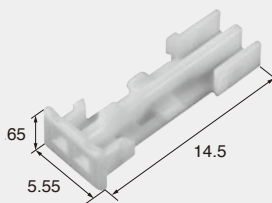
Parts No.	6910-9330
Material	PBT
Color	Natural

(F) Dielectric upper 誘電体アッパー



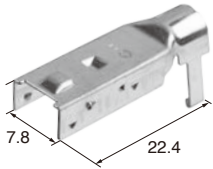
Parts No.	6910-8971
Material	PBT
Color	Natural

(F) Dielectric lower 誘電体ロアー



Parts No.	6910-8970
Material	PBT
Color	Natural

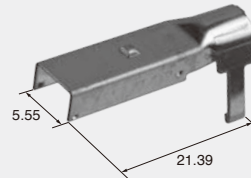
(M) Outer conductor terminal upper 外導体端子アップパー



Parts No. **8230-6306**

Material Brass(Tin-plated)
黄銅 (Snめっき)

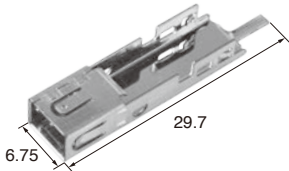
(F) Outer conductor terminal upper 外導体端子アップパー



Parts No. **8240-0859**

Material Brass(Tin-plated)
黄銅 (Snめっき)

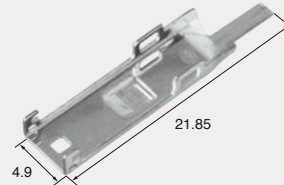
(M) Outer conductor terminal lower 外導体端子ロアー



Parts No. **8230-6307**

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

(F) Outer conductor terminal lower 外導体端子ロアー

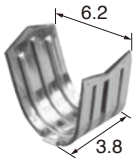


Parts No. **8240-0860**

Material Brass(Tin-plated)
黄銅 (Snめっき)

Sleeve スリーブ

(M)/(F) Shared 共通部品



Parts No. **8110-5606**

Material Brass(Tin-plated)
黄銅 (Snめっき)

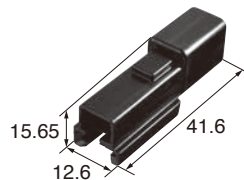
HFD-S2 SERIES Housing for STANDARD

Material : PBT

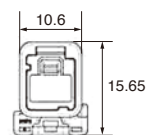
1-pair (Shared with) HFD U2 series 共通部品 (Key B)

Color Black

(Note) Bracket size 9mm



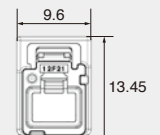
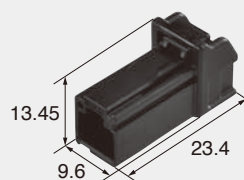
●Mating face



M (6910-8309)

F (6910-8253)

●Mating face



PCB Connector part No. 6910-8975

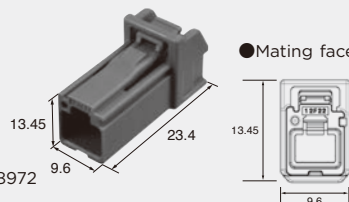
Color Black

1-pair

(Key C)

F(6099-0578)

●Mating face



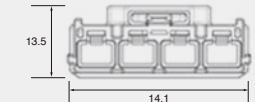
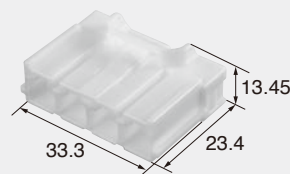
PCB Connector part No. 6910-8972

Color Gray

4-pair (Shared with) HFD U2 series 共通部品 (Key A)

F (6910-8298)

●Mating face



PCB Connector part No. 6910-9333

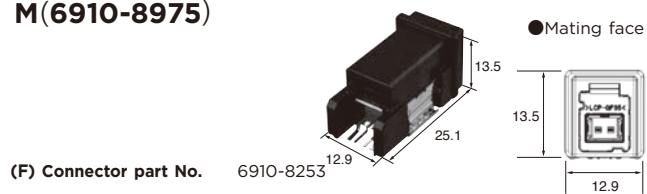
Color Natural

HFD-S2 SERIES for PCB

Material : LCP(Housing body)

1-pair Horizontal SMT 水平タイプ (Key B)

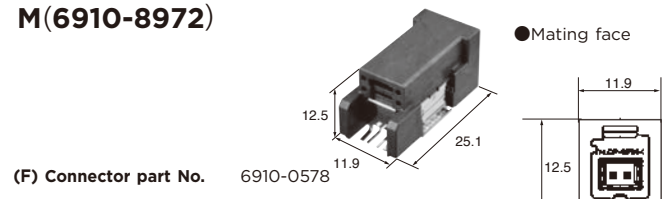
M(6910-8975)



Color Black

1-pair Horizontal SMT 水平タイプ (Key C)

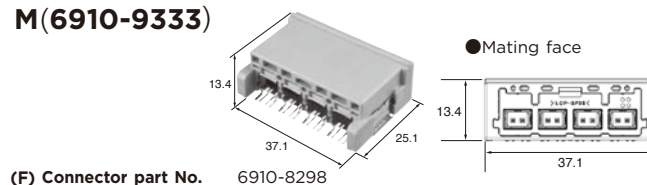
M(6910-8972)



Color Gray

4-pair Horizontal SMT 水平タイプ (Key A)

M(6910-9333)



Color Natural