

FLH Series Mini Sealed 2.5 mm Pitch Connectors Amphenol

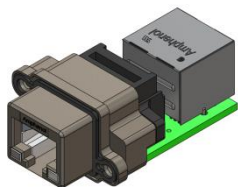
Product Specification S6145C Rev 2.0

Now you're connected!

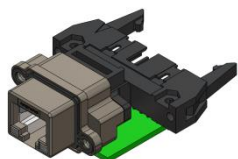
About Amphenol Commercial Products

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

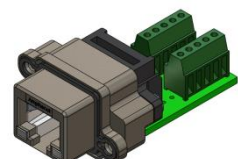
MRJ/MRJR PCB Options



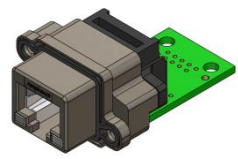
MRJR-8780-01
CAT5e RJ45 on PCB
with Matching RJ45



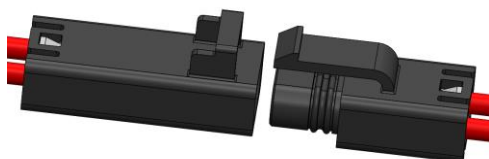
MRJR-5580-01
Standard RJ45 on PCB
with Matching Cable Header



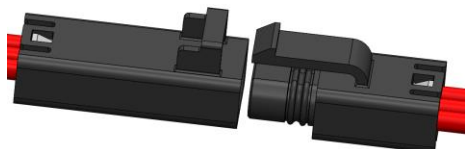
MRJR-5980-01
Standard RJ45 on PCB with
Matching Terminal Block



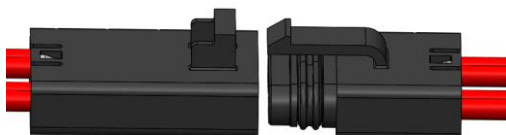
MRJR-5C80-01
Standard RJ45 on PCB
For Discrete Wiring



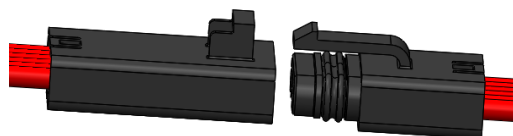
2 Pin Connector



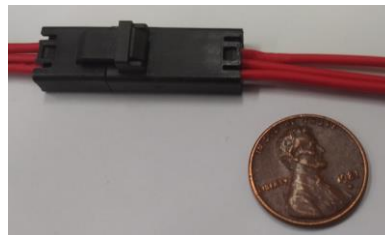
3 Pin Connector



4-Pin Connector



6 Pin Connector



Overview

This product specification defines the general use and performance parameters for Amphenol's, FLH series of Mini Sealed 2.5 mm pitch connectors.

Availability:

- Wire to Wire 2 pin - IP67 sealing in mated condition
- Wire to Wire 3 pin - IP67 sealing in mated condition
- Wire to Wire 4 pin - IP67 sealing in mated condition (Coming soon)
- Wire to Wire 6 pin - IP67 sealing in mated condition (Coming soon)

Usage

The connector system is designed to provide a wire to wire IP67 sealing mated and unmated, ideal for harsh environments. Compact design for space saving applications.

Applications

Intended for use in applications such as:

- Lighting
- Appliances
- HVAC
- Harsh environment application

Now you're connected!

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Related Products

MUSBR-XHD Series

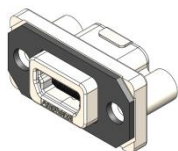


MUSBR-AHD2-821XX
Thumb Screw, Translucent Colour

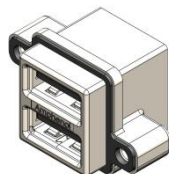


MUSBR-AHD2-221XX
Cap Screw, Black Colour

MUSB Series



MUSB-B151-34
Mini-B USB,
Right Angle PCB Tail



MUSB-C111-30
Stacked Type-A USB,
Right Angle PCB Tail

Connector Electrical Characteristics

Voltage	250 VAC max.
Current Rating:	7A - 18 AWG 5A - 20 AWG 3A - 22 AWG
Contact Resistance:	$\Delta 20 \text{ m}\Omega$ max
Insulation Resistance:	500 M Ω min
Dielectric Withstanding Voltage:	1500 VAC @ sea level

Connector Mechanical Characteristics

Thermal Shock:	25 cycles @ -40° to +70° C
Physical Shock:	Per EIA364-27, Condition H (11ms 30G)
Humidity:	Per EIC512-6 / EIA364-11A
Vibration:	Per EIA364-28, Condition 5A
Salt Spray:	Per EIA364-26, 240 Hrs
Mating Cycles:	100
Operating Temperature:	-40°C to +105°C

Assembly Process Characteristics

Crimped contacts to be inserted into the respective sealed housing assemblies

Material Characteristics

FLH mini sealed connectors are RoHS compliant per EU directive 2011/65/EU and amendments. Unless otherwise specified, the materials for each component shall be:

- Contacts: Phosphor Bronze with 2.54 μm (100 μ "") min tin over 1.27 μm (50 μ "") min Nickel 0.38 μm (15 μ "") and 0.76 μm (30 μ "") gold available
- Housing: High temperature thermoplastic, UL94V-0 rated, black
- Seals: Silicon rubber

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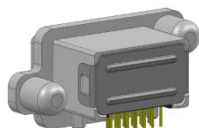
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Related Products

MHDR Series



MHDR-A511-30
Type-A HDMI,
Vertical PCB Tail



MHDR-A111-30
Type-A HDMI,
Right Angle PCB Tail

MUSBR Series



MUSBR-A511-40
Type-A USB, Vertical
PCB Tail, Low-Profile

MDBR Series



MDBR-E09SM-AN0
9-Size Socket D-Sub,
Solder Cup

Available Documents

Drawing Numbers:

P-FLH-PX1-00	- Pin housing assembly, waterproofed when mated
P-FLH-SX1-00	- Socket housing assembly, waterproofed when mated
P-FLH-PC136-XXX	- Pin contact
P-FLH-SC136-XXX	- Socket contact

Packaging:

P-FLH-P21-00	- 154 connectors/tray (7 trays per box)
P-FLH-P31-00	- 154 connectors/tray (7 trays per box)
P-FLH-S21-00	- 168 connectors/tray (7 trays per box)
P-FLH-S31-00	- 168 connectors/tray (7 trays per box)
P-FLH-PC136-XXX	- 5000 per reel
P-FLH-SC136-XXX	- 6000 per reel

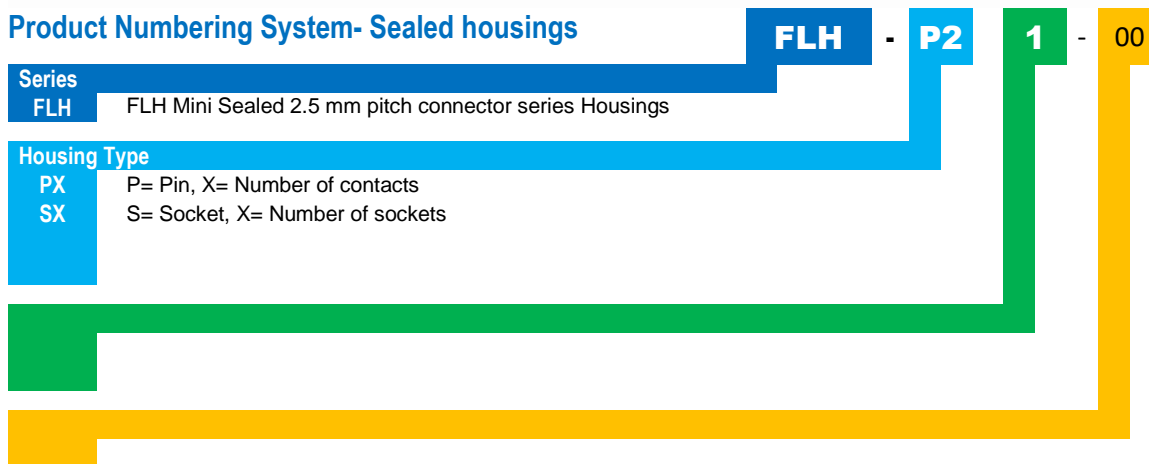
Lower quantities are available on request

Report Numbers:

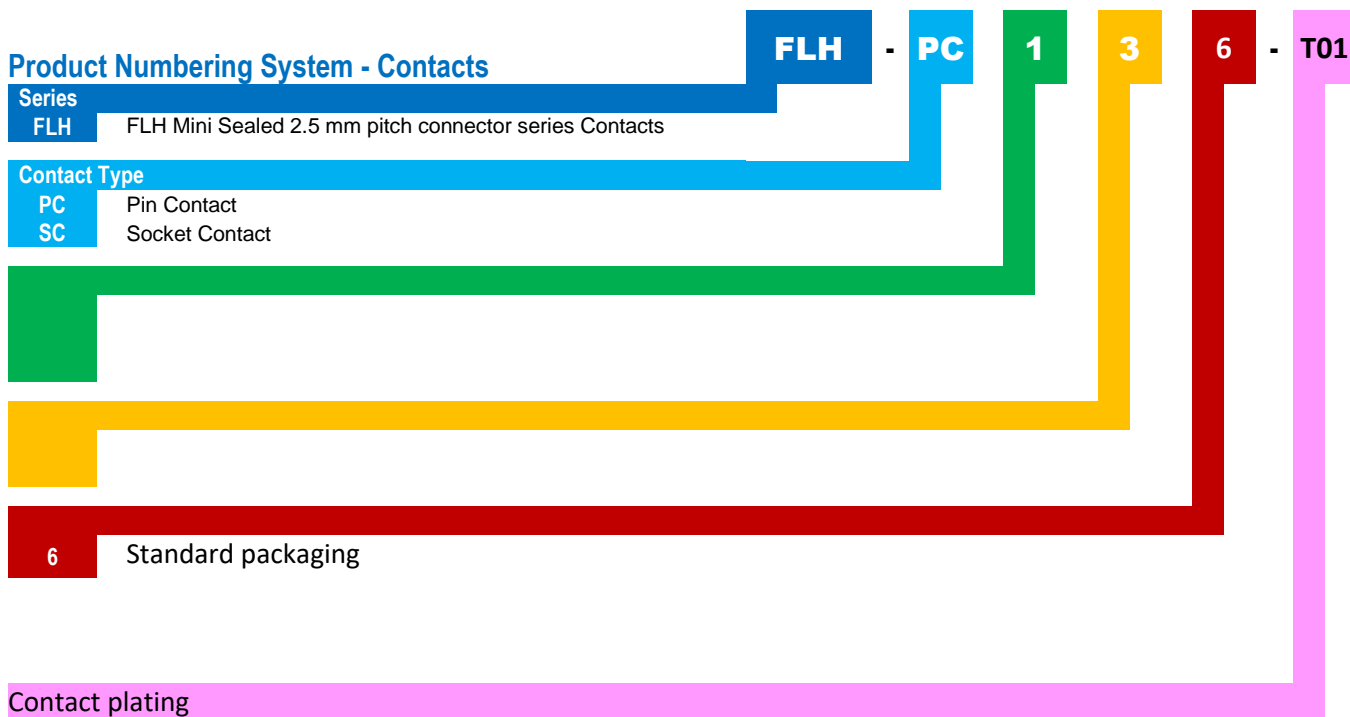
Contact Factory, authorized Amphenol representative or website www.amphenolcanada.com for additional configurations.

Now you're connected!

Product Numbering System- Sealed housings



Product Numbering System - Contacts



T01	100 μ" matt tin
G15	15 μ" gold
G30	30 μ" gold