# Amphenol® RF

## Automotive Solutions

# Global Locations

## NORTH AMERICA

### United States HQ
4 Old Newtown Road
Danbury, CT 06810

### United States
5069 Maureen Lane, Suite B
Moorpark, CA 93021

### Mexico
Circunvalacion del Mar 56
Parque Industrial de Nogales
Nogales, Sonora, C.P. 84094

## ASIA

### China
Block DM2
Tang Wei Industrial District
Gong Ming Street
Guang Ming New District
Shenzhen City, Guangdong
Province, P.R. China

### China
No. 55, Industry 2nd Road
Aerospace Economic Technology
Development Zone
Xi'an, Shaanxi Province, P.R. China

### India
Plot 3/4B & 5A, CMDA's Industrial
Area
Maraimalai Nagar
Kilkaranai Village
Chengleput Taluk, Kancheepuram,
Chennai, 603209

## EUROPE

### The Netherlands
P.O. Box 63, 3990 DB Houten
Hoofdveste 19
3992 DH Houten

# Table of Contents


Company Overview ..... 4
Technologies Supported ..... 6
FAKRA Generations ..... 8
FAKRA/USCAR Specifications ..... 9
FAKRA/USCAR Mechanical Coding ..... 10
FAKRA Interface Drawings ..... 12
FAKRA Connector Ordering Information ..... 14
FAKRA Cable Connectors ..... 15
- Generation 4.0 ..... 15-16
- Generation 3.0 ..... 17
- Generation 2.5 and 2.0 ..... 18
- Generation 1.0 ..... 19
- Sealed FAKRA ..... 20-21
- 6.0 GHz FAKRA ..... 21

FAKRA Adapters ..... 22
FAKRA PCB Connectors ..... 23-28
HSD Cable Assembly Ordering Information ..... 29
HSD Mechanical Coding ..... 30
HSD Cable Assemblies ..... 31
HSD Cable Connectors ..... 31-32
HSD PCB Connectors ..... 33
Index ..... 34

# Amphenol Corporate Overview

## Amphenol Corporate Overview

Amphenol Corporation (NYSE ticker: APH) is one of the largest manufacturers of interconnect products in the world. The Company designs, manufactures and markets electrical, electronic and fiber optic connectors, coaxial and flat-ribbon cable, and interconnect systems. Amphenol has a diversified presence as a leader in high growth segments of the interconnect market including: Military and Commercial Aerospace, Automotive, Broadband Communication, Industrial, Information Technology and Data Communications Equipment, Mobile Devices and Wireless Infrastructure.

## Amphenol RF Division

Amphenol RF is the world's largest manufacturer of coaxial connectors for use in radio frequency, microwave, and data transmission system applications. Amphenol RF offers a complete range of RF connectors, cable assemblies and components used in the Automotive, Broadband, Wireless LAN/RFID, Wireless Infrastructure, Military Aerospace and Instrumentation markets.

## Commitment to Quality

For over 80 years, leading manufacturers of communications, consumer, industrial, automotive, military and aerospace products have relied on Amphenol to provide total interconnect solutions. Maintaining this high level of customer trust requires a total concern for complete customer satisfaction at all levels – from engineering to manufacturing to quality assurance. Since many products are custom designed to individual customer specifications, often for the harshest environments, it's critical that a teamwork approach be taken, involving the customer at all levels. Amphenol RF's commitment to quality remains exceptionally uniform and internationally standardized, from raw materials testing, through design engineering, to automated manufacturing and sub-assembly, to fully documented and traceable test procedures developed in accordance with customer specifications.

## Environmental Compliance

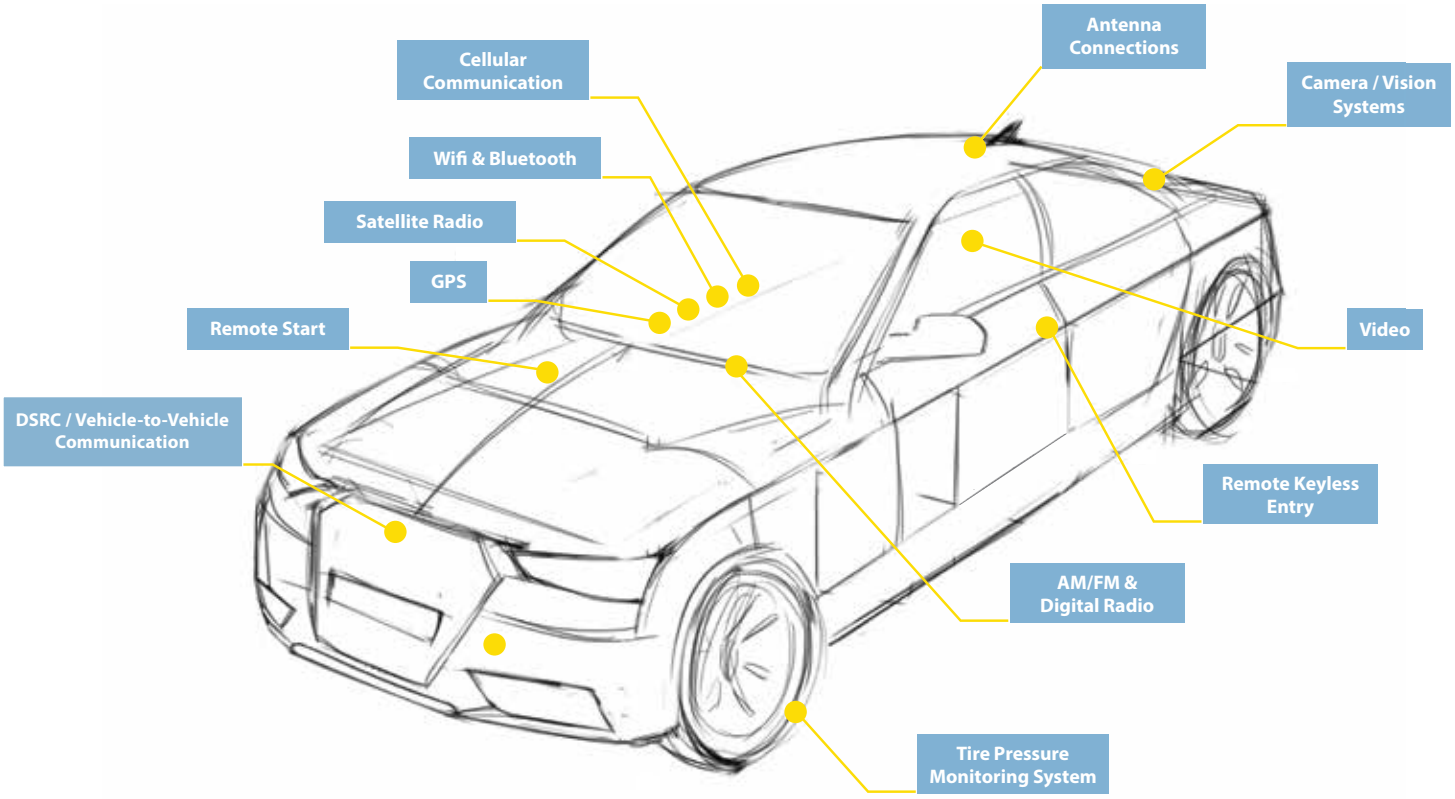
Amphenol RF is proud to be a continued world leader in improving environmental issues in the global marketplace. We are committed to meeting and exceeding the ever changing expanse of environmental compliance requirements. Amphenol works diligently with our customers on a variety of environmental protocols. As a global supplier we are committed to supporting RoHS/202/95/EC, PFOS 2006/12/EC, and REACH requirements.

## Automotive Solutions

As telematics advancements become more reliable, available and inexpensive, vehicles are transforming into an intelligent platform for enabling mobile life. With these recent advancements in communications, technology, and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become integral components of today's automobile, trucking, watercraft, motorcycle, and off-road construction markets.

Utilizing a modified metal SMB connector embedded within a plastic housing, which is designed with multiple color codes for easy identification, FAKRA connectors are designed to perform up to 6 GHz and meet the particular mechanical and environmental requirements of the automotive industry. Amphenol RF also offers a variety of connectors for board-to-board, PCB interfaces, and traditional antenna interfaces.

# Technologies Supported




## AM/FM Radio

Antenna technology that supports GPS and Satellite Radio is the same antenna that will support AM/FM radio. This combined antenna capability not only reduces the number of external antennas on the vehicles, but offers standardization among all of the interconnecting components.

## Bluetooth

A short-range radio technology aimed at simplifying communications among Internet devices, between devices and the Internet. It also aims to simplify data synchronization between Internet devices and other computers.

## Cameras

HSD connectors support LVDS technology for backup cameras, while FAKRA connectors are an excellent choice for LVDS over coax signals, which are used in next generation digital cameras for external surround and interior cabin monitoring vehicle systems.

## Cellular/PCS (Personal Communications Service)

The U.S. Federal Communications Commission (FCC) term used to describe a set of digital cellular technologies being deployed in the U.S. It is also referred to as digital cellular.

## DSRC (Dedicated Short Range Communication)

Our FAKRA connectors may be used to support DSRC, or Dedicated Short Range Communication technology. DSRC is a two-way short-to-medium-range wireless communications capability that permits very high data transmission critical in communications-based active safety applications.

## GPS (Global Positioning System)

Our FAKRA connectors are used to carry signals from external GPS antennas to interior vehicle systems, which provide navigation assistance and also allow first responders to precisely locate the vehicle in emergency situations.

## GVIF (Gigabit Video Interface)

Our FAKRA and HSD connectors can be used to support GVIF, or Gigabit Video Interface. GVIF is a digital video serial interface developed for high quality uncompressed video transmission from digital video hardware, and is used primarily in automotive applications. It is compatible with the HDCP encryption system. GVIF transmits uncompressed serial data at speeds up to 1.95 gigabits/second.

## LVDS (Low Voltage Differential Signaling)

Our FAKRA connectors can be used to support LVDS, or Low Voltage Differential Signaling. Also known as TIA/EIA-644, LVDS is a technical standard that specifies electrical characteristics of a differential, serial communications protocol. LVDS operates at low power and can run at very high speeds.

## Satellite Radio

Amphenol RF coaxial connection systems have been an integral part of the signal reception process since the first vehicle broadcast satellites came online. Our connectors conduct the signal from the antenna through the vehicle and into the specific decoder modules.

## Vehicle Controls

Adaptive Cruise Control and Collision Avoidance Systems are evolving technologies that utilize FAKRA connectors.

## Wi-Fi

Many new automotive models are incorporating Wi-Fi in to their Infotainment offerings. Our FAKRA connectors support this emerging technology.

## Wireless Remote

Remote starting, remote keyless entry, and door/window controls are all supported by our FAKRA products.

# FAKRA GENERATIONS

| | Design Features | Tooling | Production | Compliance | Packaging |
|---|---|---|---|---|---|
| **GEN 1.0** | Machined Body<br>Machined Contact<br>Unassembled Housing | Hand Tooling | Low Volume | USCAR-17<br>USCAR-18<br>DIN 72594-1 | Tray Pack<br><br>Bulk Components |
| **GEN 2.0** | Die Cast Body<br>Singulated Stamped or<br>Machined Contact<br>Pre-Assembled Housing | Hand Tooling | Low Volume | USCAR-17<br>USCAR-18<br>DIN 72594-1 | Tray Pack<br><br>Bulk Components |
| **GEN 2.5** | Die Cast Body<br>Stamped Contact<br>Pre-Assembled Housing | Automated Tooling<br><br>Semi-Automated Tooling | High Volume | USCAR-17<br>USCAR-18<br>DIN 72594-1 | Tray Pack<br><br>Contacts sold separately on tape and reel |
| **GEN 3.0** | Die Cast Body<br>Stamped Contact<br>Pre-Assembled Housing | Automated Tooling<br><br>Semi-Automated Tooling | High Volume | USCAR-17<br>USCAR-18<br>DIN 72594-1 | Tray Pack<br><br>Contacts sold separately on tape and reel |
| **GEN 4.0** | Stamped Body<br>Stamped Contact<br>Stamped Sleeve<br>Unassembled Housing | Fully Automated Tooling | High Volume | USCAR-17<br>USCAR-18<br>DIN 72594-1<br>6Q0.90.961D<br>6Q0.90.961E | Tray Pack for Housing<br><br>Other components sold on tape and reel |

**Utilizing world class engineering and manufacturing capabilities, Amphenol RF is well positioned to be the industry leader in all future automotive technologies for years to come.**

# FAKRA / USCAR PRODUCT SPECIFICATIONS

## ELECTRICAL

| | | | | |
|---|---|---|---|---|
| **Impedance** | | 50 Ω Nominal | | |
| **Frequency Range** | | DC-6 GHZ | | |
| **Performance Specifications:** | | | | |
| **VSWR** | | **DC-2 GHZ** | **2 GHz - 3 GHZ** | **3 GHz - 6 GHz*** |
| | *Spec Requirement* | 1.40 max | 1.50 max | 1.60 max |
| **Insertion Loss** | | **DC - 3GHZ** | | **3 GHz - 6 GHz*** |
| | *Spec Requirement* | ≤ 0.3 dB max | | 0.45 ≤ dB max |
| **Insulation Resistance** | | 1000 MΩ min | | |
| **Contact Resistance** | *Center Contact* | < 24 MΩ | | |
| | *Outer Contact* | < 5 MΩ | | |
| **Dielectric Withstanding Voltage** | *At Sea Level* | > 800 VRMS (interface only; may be cable limited) | | |

** Applicable to any 6.0 GHz FAKRA connectors listed in this catalog*

## MECHANICAL

| | | |
|---|---|---|
| Durability (Mating Cycles) | | 100 min |
| Plastic Housing - Engagement Force | | ≤ 40 N (Single FAKRA) |
| Plastic Housing - Disengagement Force | | ≥ 35 N (Single FAKRA) |
| Cable Retention Force | | > 110 N |
| Coding | | 14 mechanical and colored codings |
| Interface | | USCAR-18, DIN |

## ENVIRONMENTAL

| | | |
|---|---|---|
| Temperature Range | *Operating* | -40/ +105 C |
| Thermal Shock | | USCAR-2, para 5.6.1 |
| Vibration | | USCAR-2, para 5.4.6 |
| Shock | | USCAR-2, para 5.4.6 |

## MATERIALS

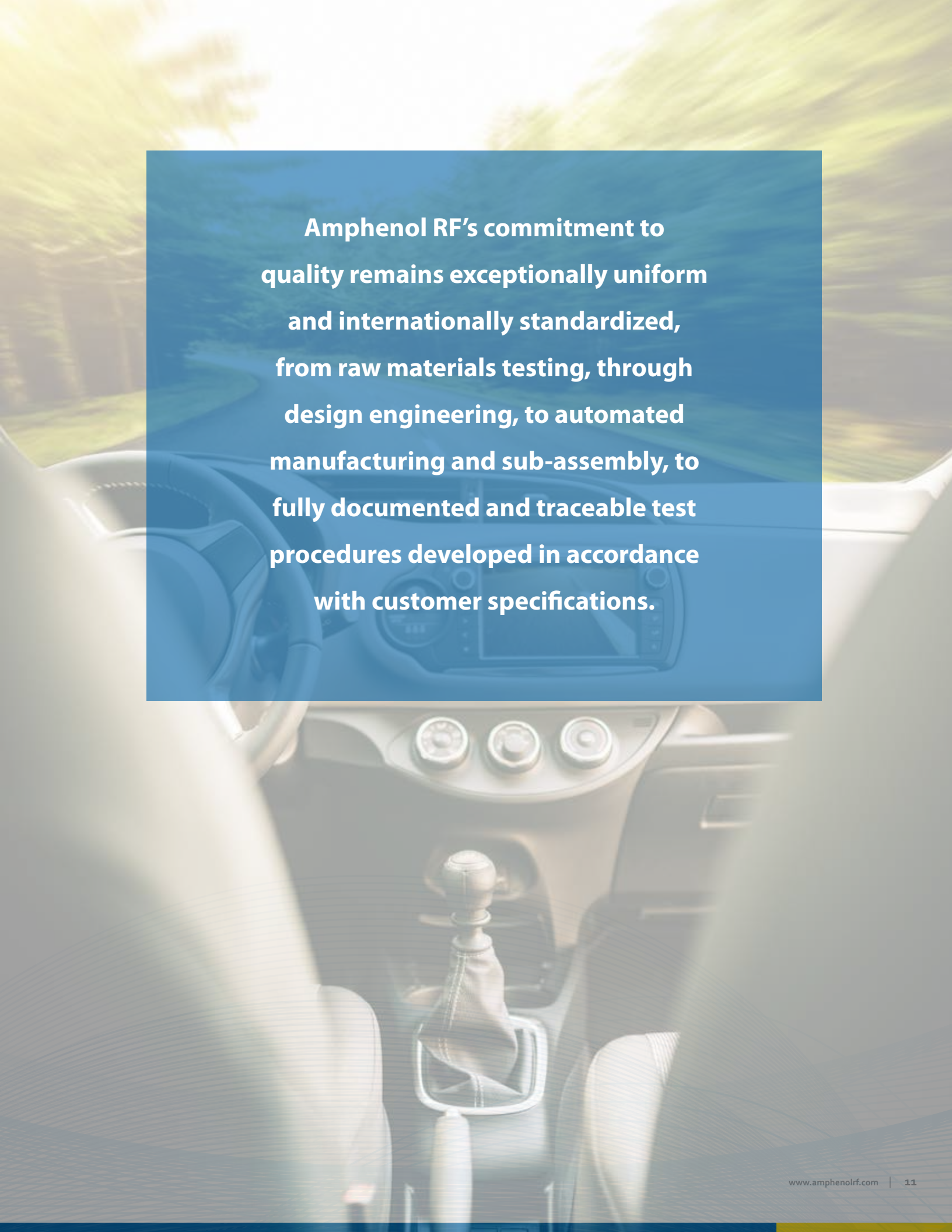
| | | |
|---|---|---|
| Plastic Housing | *Jacks* | Nylon, PBT or PPE |
| | *In-Line Plugs* | Nylon or PBT |
| | *PCB Plugs* | Nylon |
| Secondary Locking Clip (if applicable) | | PBT |
| Center Contact | *Jack* | Beryllium Copper or Phosphor Bronze |
| | *Plug* | Brass or Phosphor Bronze |
| Body | | Brass, Zinc Alloy or Phosphor Bronze |
| Retainer Ring (if applicable) | | Beryllium Copper |
| Ferrule | | Copper Alloy |
| Insulator | | TFE or TPX |

## PLATING

| | | |
|---|---|---|
| Center Contact | | Gold |
| Body | *Cable Mount Connectors* | Nickel, Tin |
| | *PCB Mount Connectors* | Nickel, Gold, Tin |
| Ferrule | | Nickel |

# FAKRA/USCAR MECHANICAL CODING

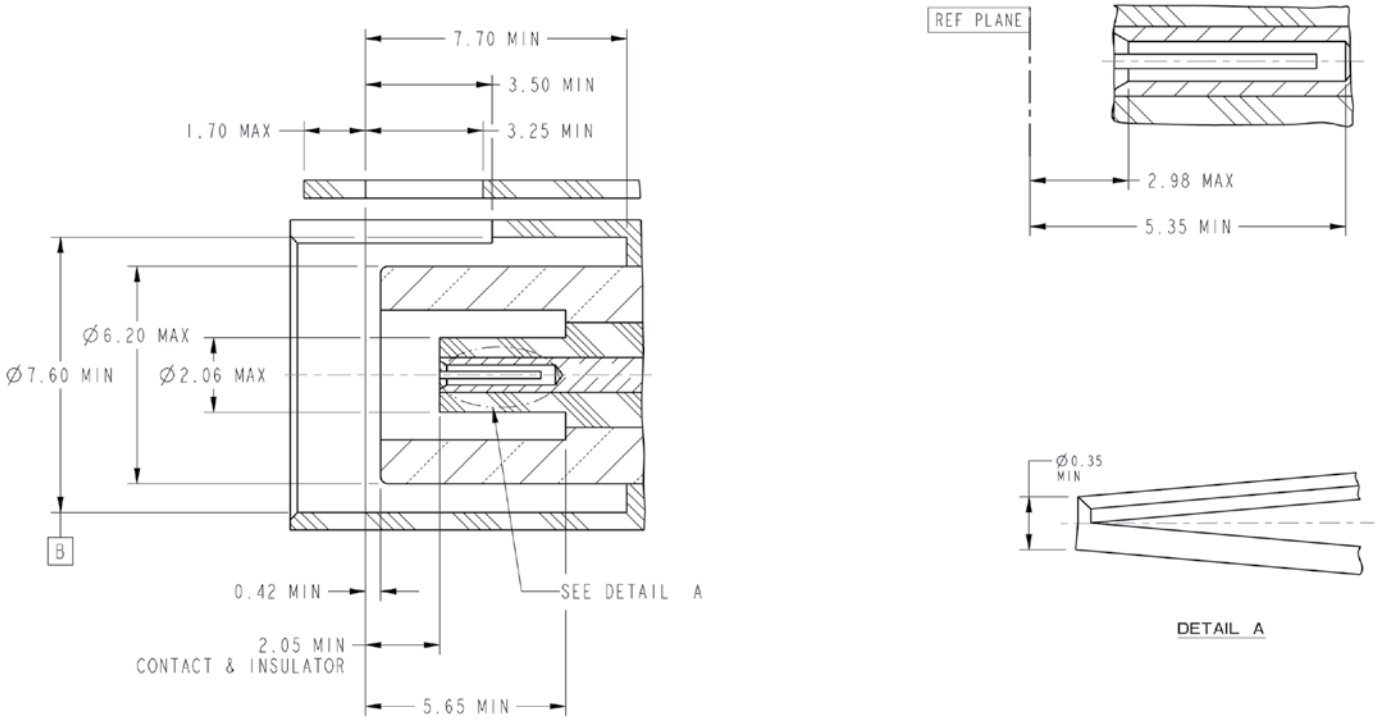
| | Jack | Plug | RAL | Color | Application |
|---|---|---|---|---|---|
| A | | | 9005 | Jet Black | DAB/AM-FM |
| B |  | | 9001 | Cream | DAB with Power / AM-FM |
| C | | | 5005 | Signal Blue | GPS |
| D |  | | 4004 | Claret Violet | Cellular Phone |
| E | | | 6002 | Leaf Green | TV / SDARS Terrestrial |
| F | | | 8011 | Nut Brown | TV / SDARS Terrestrial / Camera |
| G |  | | 7031 | Blue Grey | SDARS Terrestrial |
| H |  | | 4003 | Heather Violet | GPS Navigation |
| I |  | | 1001 | Beige | Bluetooth / VPM |
| K | | | 1027 | Curry | SDARS Satellite AM-FM |
| L |  | | 3002 | Carmine Red | VPM |
| M | | | 2003 | Pastel Orange | RKE / TPMS |
| N |  | | 6019 | Pastel Green | DSRC / VPM |
| Z | | | 5021 | Water Blue | Universal (Neutral) Code |



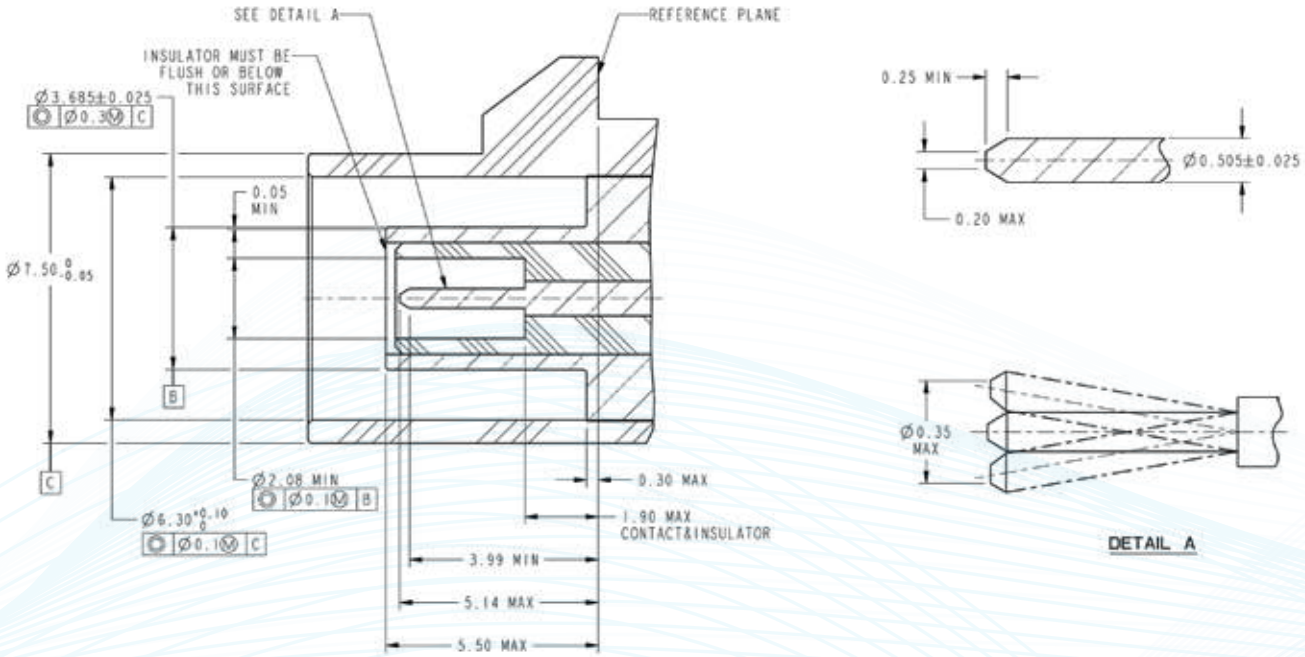
**Amphenol RF's commitment to quality remains exceptionally uniform and internationally standardized, from raw materials testing, through design engineering, to automated manufacturing and sub-assembly, to fully documented and traceable test procedures developed in accordance with customer specifications.**

# INTERFACE DRAWINGS

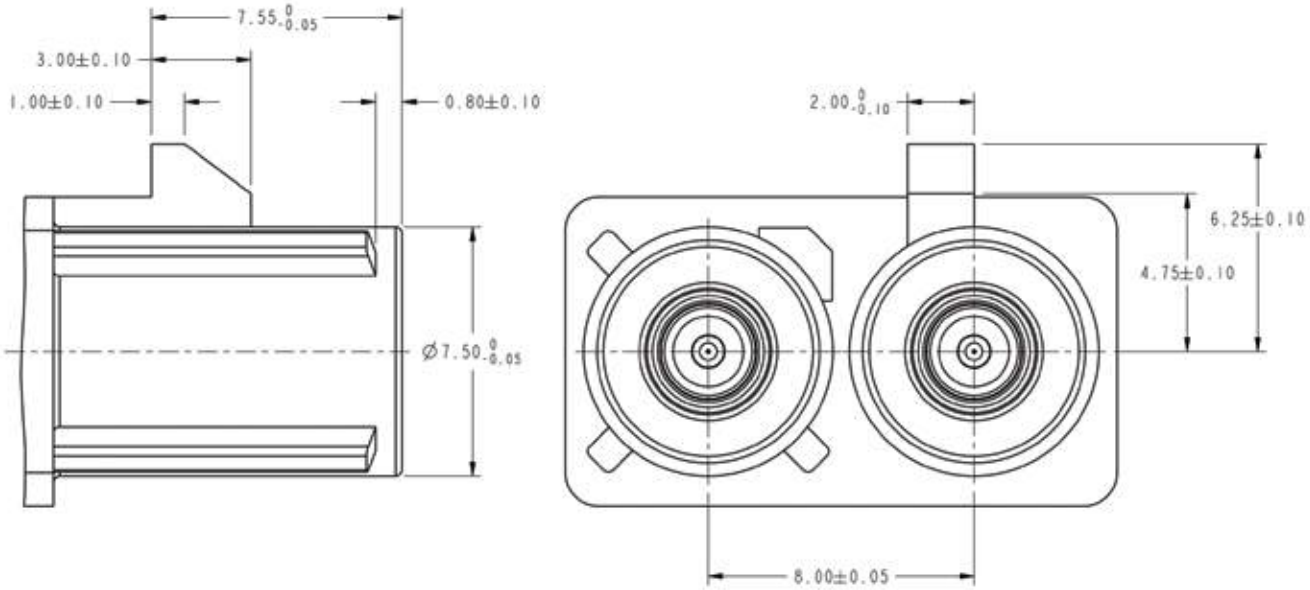
## FAKRA Jack Interface

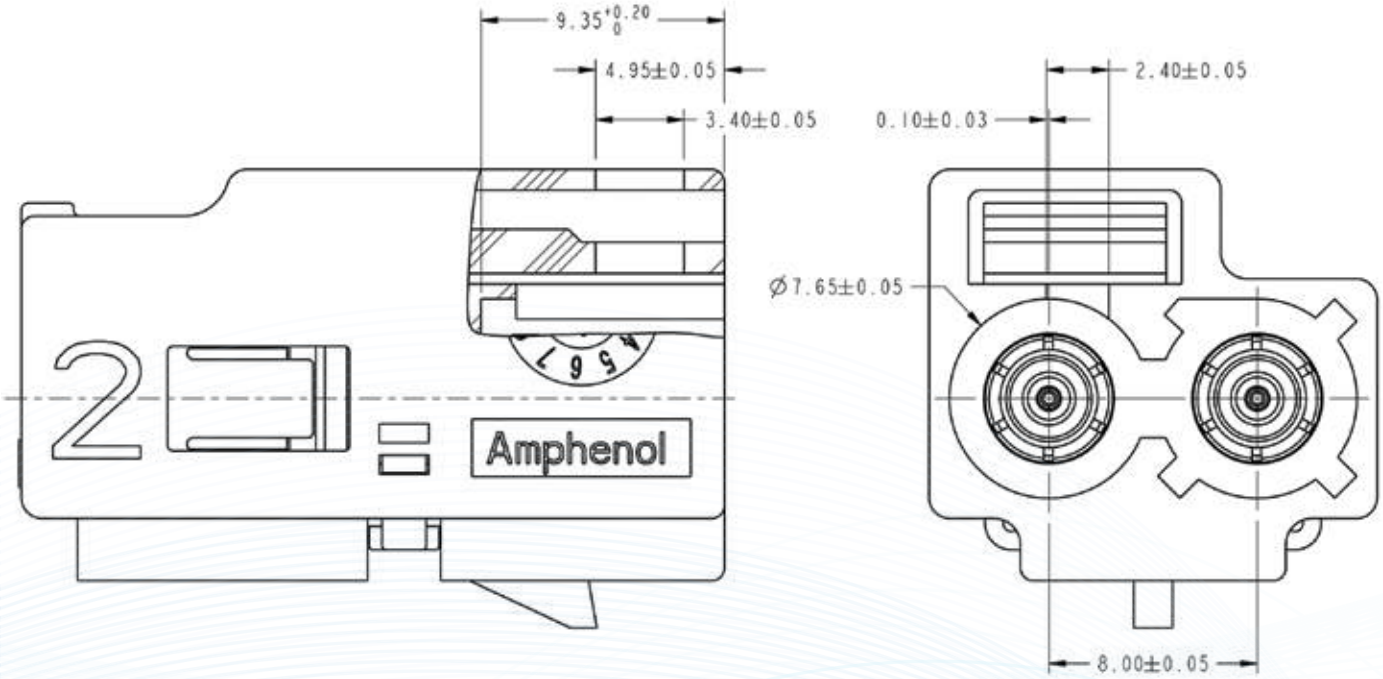



## FAKRA Plug Interface



## Dual - 8mm (High-Density) Housing



# FAKRA ORDERING INFORMATION

| 2 | F | A | 1 | - | N | X | S | P | - | C | O | 1 | W | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Generation:**

| | |
|---|---|
| FA | Gen 1.0 |
| 2FA | Gen 2.0 or 2.5 |
| 3FA | Gen 3.0 |
| 4FA | Gen 4.0 |

**Housing:**

1 = Single

H=Dual 8mm Pitch

**Options:**
(dash) = -
E = Enhanced Gen 3.5
6 = 6 GHz
R = Reverse Port On Duals
*Other options available, please contact factory*

**Tab Location:**

N=North

S=South

E=East

W=West

**Key Code: See Key Code Chart**

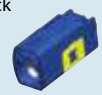
**Style:**

S=Straight

R=Right Angle

A=Angled/Other than 90 Degrees

**Gender:**

J = Jack 

P = Plug

**Options:**

(dash) = -

T = TPA (Terminal Position Assurance)

**Termination**

**Cable Mount Connectors**

C01 = RG-174/188/316
C04 = RG-58
C65 = RG-59/62 Type
C71 = RG-71/UM
D46 = DACAR 462
M59 = Mini 59 Type
C00 = RG-174/188/316 and RG-58 *
C88 = RG-174/188/316 and RG-71/UM *
C99 = RG-174/188/316 and RG-59/62 Type *

*More cables available, please consult factory*
** available on dual connectors only*

**Printed Circuit Board Connector**
PCB = Printed Circuit Board Connector

**Options:**

- = With contact supplied
W = Contact supplied separately
E = Sealed Connector
*Other options available , please contact factory*

**Character Codes - Cable Jacks**

0 = Without Clip Provision
3 = 360 Degree Design (Right Angle Only)
6 = Single/Dual With Clip Provision
S = Low Profile Without Clip Provision

**Character Codes - Cable Plugs**

0 = Single Without Bracket; Without Clip Provision
1 = Single/Dual Without Bracket; With Clip Provision
6 = Single/Dual Without Bracket; With Clip Provision
9 = Dual Without Bracket; Without Clip Provision

**Please contact Amphenol RF for other cable requirements.**

# FAKRA Cable Connectors

## GENERATION 4.0 FAKRA CONNECTORS

Generation 4.0 plugs and jacks feature stamped and formed construction and are designed for fully automated termination by the user. The center contacts and connector bodies are supplied strip-fed on tape and reel. Generation 4.0 connectors are designed for high volume users whose factory utilizes high-speed automated cable assembly production. The FAKRA connector housings for Generation 4.0 are removable, permitting field replacement, if necessary.

### Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FA1-NXSJ-C01W0 | C01 | RG-174/188/316 | 349-50874 |
| 4FA1-NXSJ-C04W0 | C04 | RG-58 | 349-50874 |
| 4FA1-NXSJ-C65W0 | C65 | RG-59/62 | 349-50874 |
| 4FA1-NXSJ-M59W0 | M59 | Mini 59 Type | 349-50874 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FA1-NXSJ-C01W6 | C01 | RG-174/188/316 | 349-50874 |
| 4FA1-NXSJ-C04W6 | C04 | RG-58 | 349-50874 |
| 4FA1-NXSJ-C65W6 | C65 | RG-59/62 | 349-50874 |
| 4FA1-NXSJ-M59W6 | M59 | Mini 59 Type | 349-50874 |

### Single Right Angle Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FA1-NXRJ-C01W3 | C01 | RG-174/188/316 | 349-50906 |
| 4FA1-NXRJ-C04W3 | C04 | RG-58 | 349-50906 |
| 4FA1-NXRJ-C65W3 | C65 | RG-59/62 | 349-50906 |
| 4FA1-NXRJ-M59W3 | M59 | Mini 59 Type | 349-50906 |

## Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FA1-NXSP-C01W1 | C01 | RG-174/188/316 | 349-50874 |
| 4FA1-NXSP-C04W1 | C04 | RG-58 | 349-50874 |
| 4FA1-NXSP-C65W1 | C65 | RG-59/62 Type | 349-50874 |
| 4FA1-NXSP-M59W1 | M59 | Mini 59 Type | 349-50874 |

## Dual Straight Jack

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FAH-NXSJ-C01W6 | C01 | RG-174/188/316 | 349-50913 |
| 4FAH-NXSJ-C04W6 | C04 | RG-58 | 349-50913 |
| 4FAH-NXSJ-C00W6 | C00 | RG-174/188/316 and RG-58 | 349-50913 |
| 4FAH-NXSJ-C99W6 | C99 | RG-174/188/316 and RG 59/62 | 349-50913 |

## Dual Straight Plug

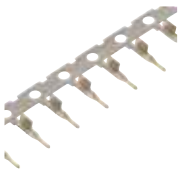
*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 4FAH-NXSP-C01W9 | C01 | RG-174/188/316 | 349-50913 |
| 4FAH-NXSP-C04W9 | C04 | RG-58 | 349-50913 |
| 4FAH-NXSP-C00W9 | C00 | RG-174/188/316 and RG-58 | 349-50913 |
| 4FAH-NXSP-C99W9 | C99 | RG-174/188/316 and RG 59/62 | 349-50913 |

## Straight Female Contacts

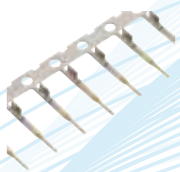
| Part Number | Description | Cable Type |
|---|---|---|
| 923-40120 | Straight Female Contact | RG-174/188/316 and RG 59/62 |
| 923-40121 | Straight Female Contact | RG-58 |
| 923-40122 | Straight Female Contact | Mini 59 Type |

## Right Angle Female Contacts



| Part Number | Description | Cable Type |
|---|---|---|
| FKCP08404 | Right Angle Female Contact | RG-174/188/316 and RG-59/62 |
| FKCP08405 | Right Angle Female Contact | RG-58 |
| 923-40144 | Right Angle Female Contact | Mini 59 Type |

## Straight Male Contacts



| Part Number | Description | Cable Type |
|---|---|---|
| 923-40116 | Straight Male Contact | RG-174/188/316 and RG-59/62 |
| 923-40117 | Straight Male Contact | RG-58 |
| 923-40118 | Straight Male Contact | Mini 59 Type |

**Specific mechanical key code designation replaces "X" in all part numbers listed.*

# GENERATION 3.0 FAKRA CONNECTORS

Generation 3.0 FAKRA connectors feature a closed-entry interface and a protected outer contact, making the connector more robust than traditional SMB connectors. The stamped and formed center contact is supplied on a reel, allowing for semi-automated termination onto the cable.

## Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1-NXSJ-C01W0 | C01 | RG-174/188/316 | 349-50801 |
| 3FA1-NXSJ-C04W0 | C04 | RG-58 | 349-50801 |
| 3FA1-NXSJ-C65W0 | C65 | RG-59/62 | 349-50801 |
| 3FA1-NXSJ-D46W0 | D46 | DACAR 462 | 349-50801 |
| 3FA1-NXSJ-M59W0 | M59 | Mini 59 Type | 349-50801 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1-NXSJ-C01W6 | C01 | RG-174/188/316 | 349-50801 |
| 3FA1-NXSJ-C04W6 | C04 | RG-58 | 349-50801 |
| 3FA1-NXSJ-C65W6 | C65 | RG-59/62 | 349-50801 |
| 3FA1-NXSJ-D46W6 | D46 | DACAR 462 | 349-50801 |
| 3FA1-NXSJ-M59W6 | M59 | Mini 59 Type | 349-50801 |

## Single Right Angle Jack (Center Contact Pre-Assembled)

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1ENXRJ-C01-3 | C01 | RG-174/188/316/DACAR 462 | 349-50785 |
| 3FA1ENXRJ-C04-3 | C04 | RG-58 | 349-50785 |
| 3FA1ENXRJ-C65-3 | C65 | RG-59/62 | 349-50785 |
| 3FA1ENXRJ-C71-3 | C71 | RG-71/UM | 349-50785 |
| 3FA1ENXRJ-M59-3 | M59 | Mini 59 Type | 349-50785 |

## Elongated Single R/A Jack (Center Contact Pre-Assembled)

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1MNXRJ-C01F6 | C01 | RG-174/188/316 | 349-50785 |
| 3FA1MNXRJ-C04F6 | C04 | RG-58 | 349-50785 |
| 3FA1MNXRJ-C65F6 | C65 | RG-59/62 | 349-50785 |

## Dual Straight Jack

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FAH-NXSJ-C01W6 | C01 | RG-174/188/316 | 349-50767 |
| 3FAH-NXSJ-C04W6 | C04 | RG-58 | 349-50767 |
| 3FAH-NXSJ-C00W6 | C00 | RG-174/188/316 and RG-58 | 349-50767 |
| 3FAH-NXSJ-C88W6 | C88 | RG-174/188/316 and RG-7/UM | 349-50767 |
| 3FAH-NXSJ-C99W6 | C99 | RG-174/188/316 and RG 59/62 | 349-50767 |

## Straight Female Contacts

| Part Number | Description | Cable Type |
|---|---|---|
| FKCP03301A | Straight Female Contact | RG-174/188/316, RG 59, RG-71/UM and DACAR 462 |
| FKCP03302 | Straight Female Contact | RG-58 |
| FKCP03303 | Straight Female Contact | Mini 59 Type |

**Specific mechanical key code designation replaces "X" in all part numbers listed.*

# GENERATION 2.5 AND 2.0 FAKRA CONNECTORS

FAKRA Generation 2.0 and 2.5 connectors feature a die cast body and stamped contact, offering reduced installation costs for customers via a pre-assembled housing unit. This pre-assembled housing eliminates two loose components and their associated assembly and handling costs. Generation 2.5 center contacts are provided on a tape and reel for automated distribution and placement.

## GEN 2.5 FAKRA CABLE CONNECTOR

### Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA1-NXSP-C01W1 | C01 | RG-174/188/316 | 349-50914 |
| 2FA1-NXSP-C04W1 | C04 | RG-58 | 349-50914 |
| 2FA1-NXSP-C65W1 | C65 | RG-59/62 | 349-50914 |
| 2FA1-NXSP-C71W1 | C71 | RG-71/UM | 349-50914 |
| 2FA1-NXSP-D46W1 | D46 | DACAR 462 | 349-50914 |
| 2FA1-NXSP-M59W1 | M59 | Mini 59 Type | 349-50914 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA1-NXSPTC01W6 | C01 | RG-174/188/316 | 349-50837 |
| 2FA1-NXSPTC04W6 | C04 | RG-58 | 349-50837 |
| 2FA1-NXSPTC65W6 | C65 | RG-59/62 | 349-50837 |

### Dual Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FAH-NXSP-C01W9 | C01 | RG-174/188/316 | 349-50767 |
| 2FAH-NXSP-C04W9 | C04 | RG-58 | 349-50767 |
| 2FAH-NXSP-C00W9 | C00 | RG-174/188/316 and RG-58 | 349-50767 |
| 2FAH-NXSP-C88W9 | C88 | RG-174/188/316 and RG-71/UM | 349-50767 |
| 2FAH-NXSP-C99W9 | C99 | RG-174/188/316 and RG 59/62 | 349-50767 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FAH-NXSP-C01W6 | C01 | RG-174/188/316 | 349-50767 |
| 2FAH-NXSP-C04W6 | C04 | RG-58 | 349-50767 |
| 2FAH-NXSP-C00W6 | C00 | RG-174/188/316 and RG-58 | 349-50767 |

### Straight Male Contacts

| Part Number | Description | Cable Type |
|---|---|---|
| FKCP03401A | Straight Male Contact | RG-174/188/316 and RG 59, RG-71/UM and DACAR 462 |
| FKCP03402 | Straight Male Contact | RG-58 |
| FKCP03403 | Straight Male Contact | Mini 59 Type |

## GEN 2.0 FAKRA CABLE CONNECTORS

### Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA1-NXSP-C01-1 | C01 | RG-174/188/316 | 349-50695 |
| 2FA1-NXSP-C04-1 | C04 | RG-58 | 349-50695 |
| 2FA1-NXSP-C65-1 | C65 | RG-59/62 | 349-50695 |
| 2FA1-NXSP-C71-1 | C71 | RG-71/UM | 349-50695 |

**Specific mechanical key code designation replaces "X" in all part numbers listed.*

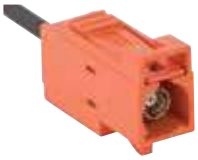
# GENERATION 1.0 FAKRA CONNECTORS

FAKRA Generation 1.0 utilizes a modified metal SMB connector embedded within a plastic housing, which is color-coded and key-coded for ease of identification and to help eliminate assembly errors. Our standard FAKRA connectors are designed to perform up to 4.0 GHz and meet the electrical, mechanical and environmental standards of the automotive industry.

## Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| FA1-NXSJ-C01-0 | C01 | RG-174/188/316 | 349-50782 |
| FA1-NXSJ-C04-0 | C04 | RG-58 | 349-50782 |



*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| FA1-NXSJ-C01-6 | C01 | RG-174/188/316 | 349-50782 |
| FA1-NXSJ-C04-6 | C04 | RG-58 | 349-50782 |

## Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| FA1-NXSP-C01-1 | C01 | RG-174/188/316 | 349-50781 |
| FA1-NXSP-C04-1 | C04 | RG-58 | 349-50781 |

## Single Straight Plug w/ Bracket

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| FA1-NXSP-C01-0 | C01 | RG-174/188/316 | 349-50781 |
| FA1-NXSP-C04-0 | C04 | RG-58 | 349-50781 |

## Single Straight Plug - Panel Mount

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| FA1-NXSP-C01-5 | C01 | RG-174/188/316 | 349-50784 |

**Specific mechanical key code designation replaces "X" in all part numbers listed.*

# SEALED FAKRA CONNECTORS

Sealed IP67 FAKRA SMB connectors are tested to GMW3191 standards and utilize both internal and external o-rings and adhesive heat shrink tubing in order to prevent dust and water ingress. These connectors are ideal for applications exposed to harsh environmental elements including construction, trucking, and outdoor communications.

## Sealed Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1-NXSJ-C01E0 | C01 | RG-174/188/316, DACAR 462 | 349-50832 |
| 3FA1ENXSJ-C04E0 | C04 | RG-58 | 349-50832 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1-NXSJ-C01E6 | C01 | RG-174/188/316, DACAR 462 | 349-50832 |

## Low Profile Sealed Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1ENXSJ-C01ES | C01 | RG-174/188/316, DACAR 462 | 349-50910 |
| 3FA1ENXSJ-C04ES | C04 | RG-58 | 349-50910 |
| 3FA1ENXSJ-C65ES | C65 | RG-59/62 | 349-50910 |

## Sealed Single R/A Jack (Center Contact Pre-Assembled)

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA1ENXRJ-C01ER | C01 | RG-174/188/316, DACAR 462 | 349-50883 |
| 3FA1ENXRJ-C04E3 | C04 | RG-58 | 349-50883 |
| 3FA1ENXRJ-C65E3 | C65 | RG-59/62 | 349-50883 |

## Sealed Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA1-NXSP-C01E1 | C01 | RG-174/188/316, DACAR 462 | 349-50832 |
| 2FA1-NXSP-C04E1 | C04 | RG-58 | 349-50832 |
| 2FA1-NXSP-C65E1 | C65 | RG-59/62 | 349-50832 |

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA1-NXSP-C01E6 | C01 | RG-174/188/316, DACAR 462 | 349-50832 |
| 2FA1-NXSP-C04E6 | C04 | RG-58 | 349-50832 |
| 2FA1-NXSP-C65E6 | C65 | RG-59/62 | 349-50832 |

## Straight Female Contacts

| Part Number | Description | Cable Type |
|---|---|---|
| FKCP03301A | Straight Female Contact, Selective Plated | RG-174/188/316 and DACAR 462 |
| FKCP08402 | Straight Female Contact, Gold Plated | RG-174/188/316 and DACAR 462 |
| FKCP03302 | Straight Female Contact | RG-58 |

## Straight Male Contacts

| Part Number | Description | Cable Type |
|---|---|---|
| FKCP03401A | Straight Male Contact | RG-174/188/316, RG-59, and RG-71/UM |
| FKCP03402 | Straight Male Contact | RG-58 |

# 6.0 GHZ FAKRA CONNECTORS

6.0 GHz connectors are designed for excellent VSWR performance from DC to 6.0 GHz, and meet the mechanical and environmental requirements of the automotive industry.

## Single Straight Jack

*With Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3FA16NXSJ-C01-6 | C01 | RG-174/188/316 | 349-50915 |
| 3FA16NXSJ-C04-6 | C04 | RG-58 | 349-50915 |

## Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2FA16NXSP-C01-1 | C01 | RG-174/188/316 | 349-50915 |
| 2FA16NXSP-C04-1 | C04 | RG-58 | 349-50915 |

**Specific mechanical key code designation replaces "X" in all part numbers listed.*

# FAKRA Adapters

Our FAKRA adapters are available in SMB to SMA configurations, which utilize a universal key code on the FAKRA side. FAKRA adapters can be used in a variety of applications, e.g. as antenna adapters and for test purposes.

| Part Number | Description |
|---|---|
| APH-FKJ-SMAJ | Universal FAKRA Jack to SMA Jack |

| Part Number | Description |
|---|---|
| APH-FKP-SMAP | Universal FAKRA Plug to SMA Plug |

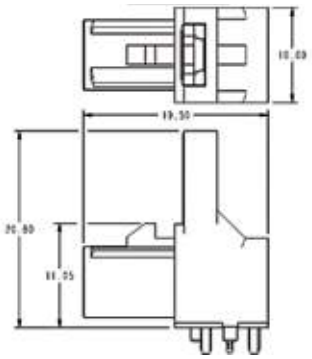
# FAKRA PCB CONNECTORS

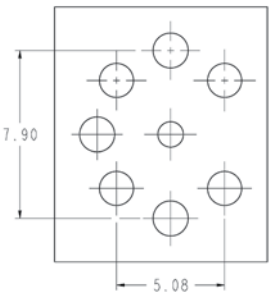
Amphenol offers a variety of FAKRA PCB mount connectors to mate to the various cable-mounted connectors shown above. Vertical, right angle, dual, and edge-mount configurations are all part of our standard offering.

| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|

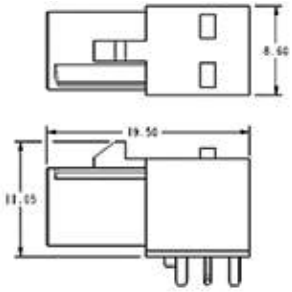
## Single Right Angle PCB Mount

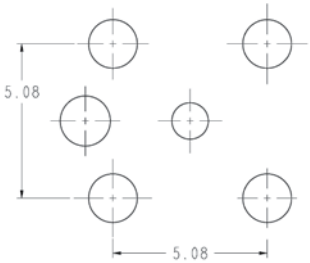
**4FA1-NXRP-PCB-4**

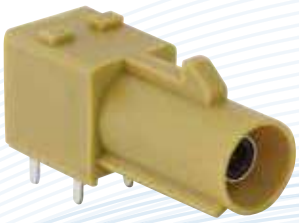




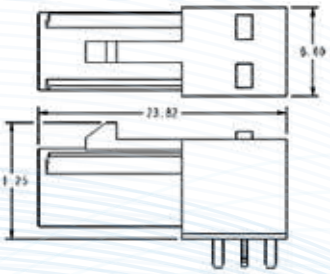
**4FA1-NXRP-PCB-6**

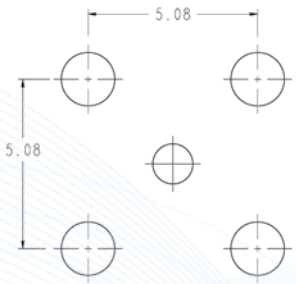




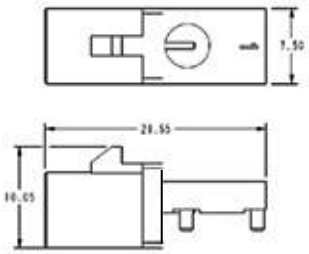
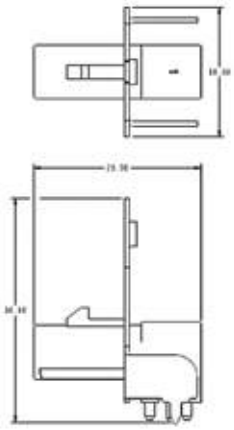
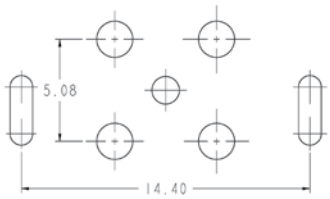
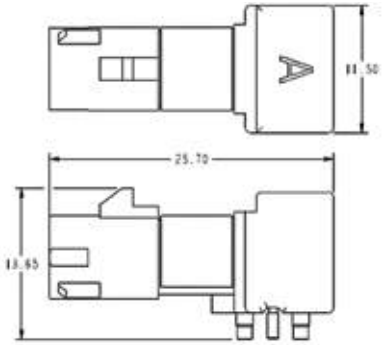
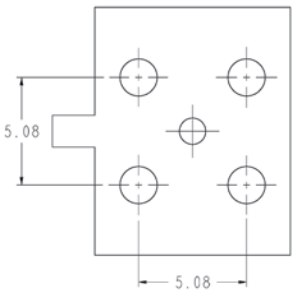
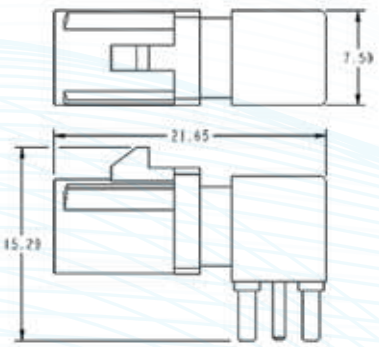
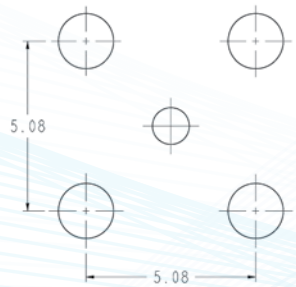



**4FA1-NXRP-PCB-8**

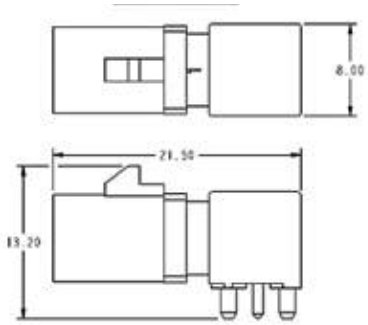
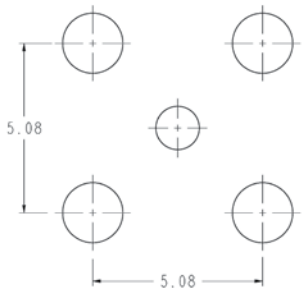
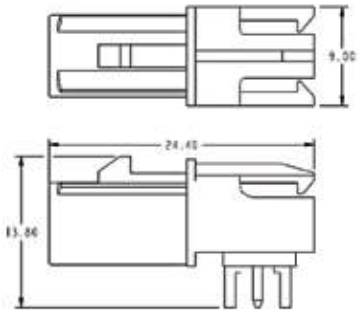
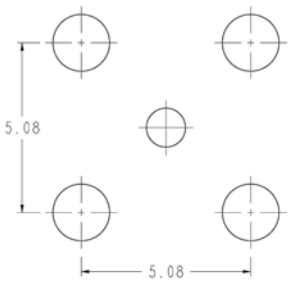
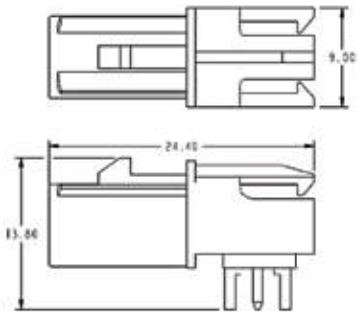
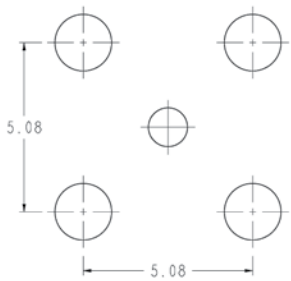
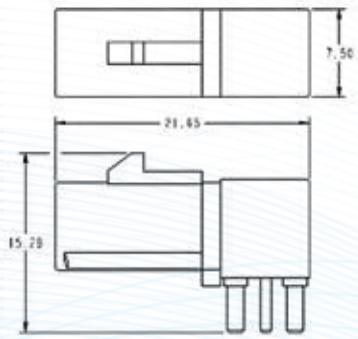
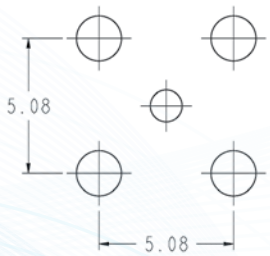





**Refer to customer outline drawing for detailed PCB layout dimensions*

| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|
| | **2FA1-NXRP-PCBA3** |  | |
| | **2FA1-NXRP-PCBD1** |  |  |
| | **2FA1-NXRP-PCB-5** |  |  |
| | **2FA1-NXRP-PCB-6** |  |  |

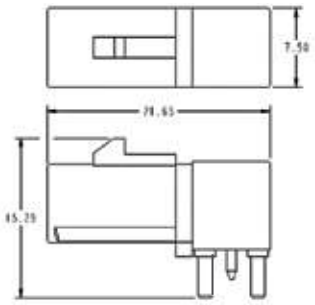
**Refer to customer outline drawing for detailed PCB layout dimensions*

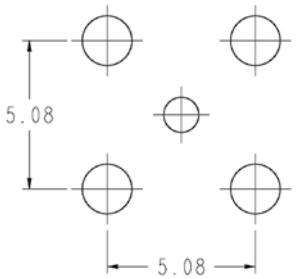
| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|
| | **2FA1-NXRP-PCBB2** |  |  |
| | **FA1-NXRP-PCB-6A** |  |  |
| | **FA1-NXRP-PCB-8A** |  |  |
| | **FA1-NXRP-PCBT10** |  |  |

**Refer to customer outline drawing for detailed PCB layout dimensions*

| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|

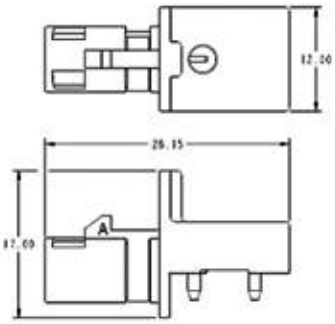
**FA1-NXRP-PCBT17**

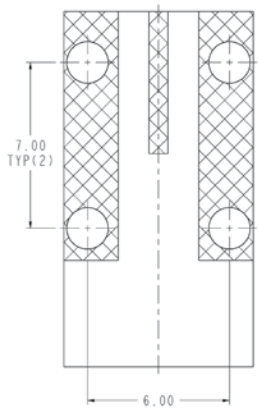


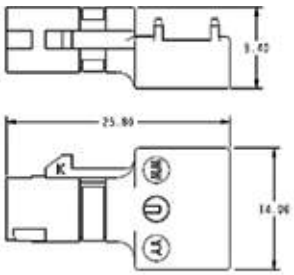

## Single Edgemount PCB

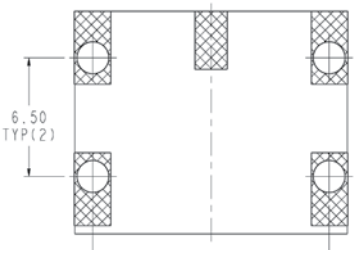
**2FA1-NXSP-PCB-3**



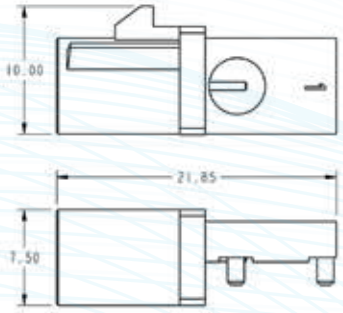



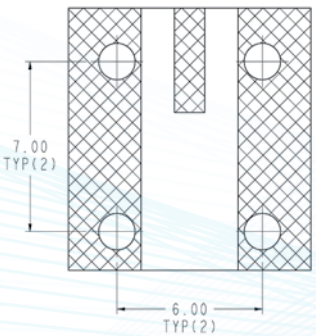
**2FA1-WXSP-1000**



**2FA1-WXSP-PCBA3**

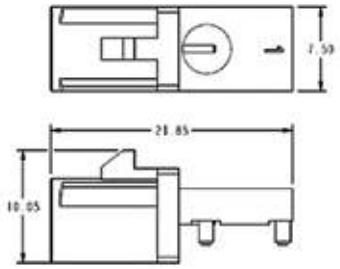


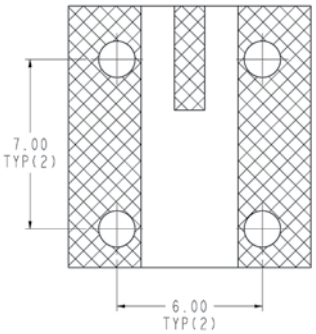




**Refer to customer outline drawing for detailed PCB layout dimensions*

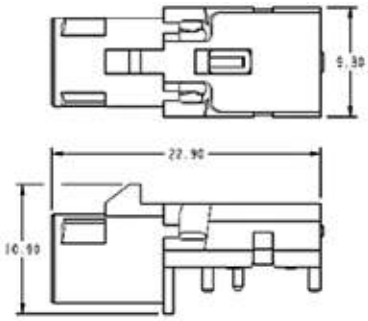
| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|

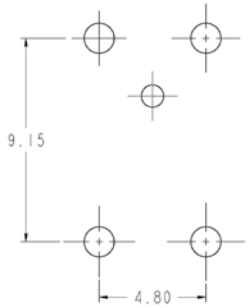
**2FA1-NXSP-PCBA9**



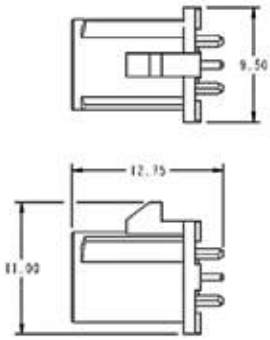
**4FA1-NXRP-PCB-3**

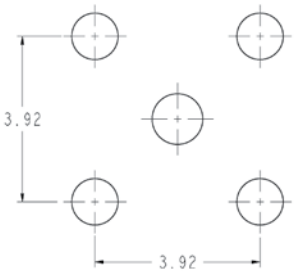


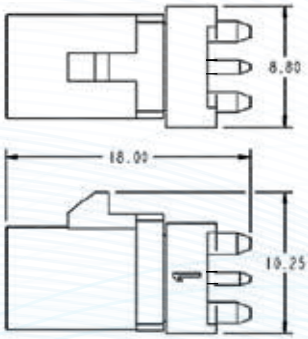

## Single Vertical PCB Mount

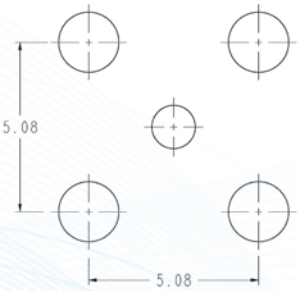
**2FA1-NXSP-PCBC5**



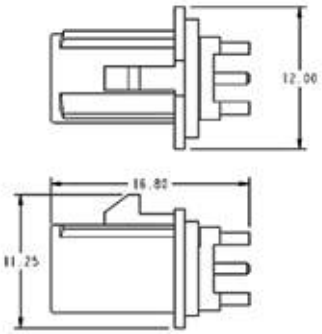
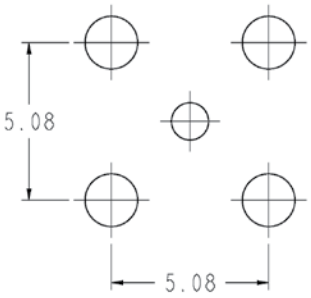



**2FA1-NXSP-PCBB6**

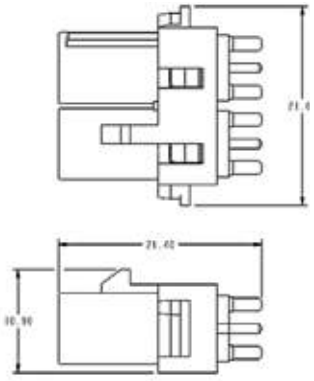
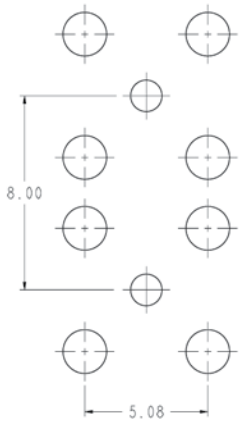
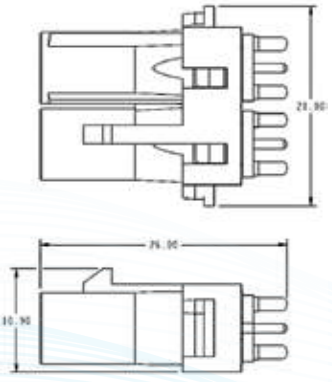
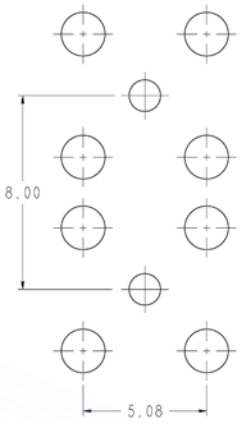



**Refer to customer outline drawing for detailed PCB layout dimensions*

| Image | Part Number | Line Drawing | PCB Layout Reference |
|---|---|---|---|
| | **FA1-NXSP-PCB-2** |  |  |

## Dual Vertical PCB Mount

| | | | |
|---|---|---|---|
| | **2FAH-NXSP-PCB-1** |  |  |
| | **2FAH-NXSP-PCB-2** |  |  |

**Refer to customer outline drawing for detailed PCB layout dimensions*

# HSD CABLE ASSEMBLY ORDERING INFORMATION

Our HSD (High Speed Data) series was developed in response to the increasing demand for high speed data communication systems in vehicles. These connectors feature 100 Ohm nominal impedance and support data rates up to 1.6 GBPS. HSD connectors can be used in combination with a variety of protocols such as LVDS (Low Voltage Differential Signaling), GVIF (Gigabit Video interface), USB, IEEE 1394 as well as Ethernet protocols.

## HSD Cable Assembly Part Numbering System

| H | S | D | S | J | X | S | J | X | 1 | 5 | 2 | 4 | 0 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Product Family:**

HSD = High Speed Data

**Connector A Orientation:**

S = Straight

R = Right Angle

**Connector A Gender:**

J = Jack

P = Plug

**Connector A Keying:**

A,B,C,D,E,Z (North only)

G,H,J,K,L,M,O (South only)

*See additional information on page 30*

**Connector B Orientation:**

S = Straight

R = Right Angle

**Connector B Gender:**

J = Jack

P = Plug

**Connector B Keying:**

A,B,C,D,E,F,Z (North only)

G,H,J,K,L,M,O (South only)

*See additional information on page 30*

**Length:**

| | |
|---|---|
| 100 - 9999 | Length in MM (100 Millimeters - 9999 Millimeters) |
| 100M - 990M | Length in M (10.0 Meters - 99.9 Meters) |

Example:
105M = 10.5 Meters, 990M = 99 Meters

**Character Code:**

01-99

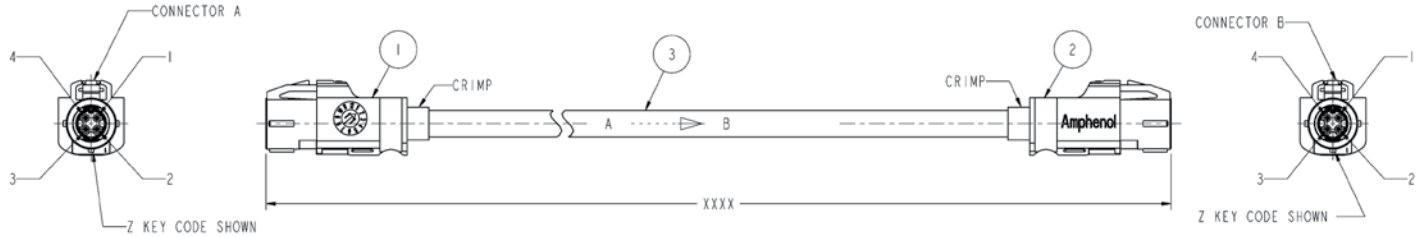
*Please consult factory for additional information*

# HSD MECHANICAL CODING

| | Jack | Plug | RAL | Color |
|---|---|---|---|---|
| A | | | 9005 | Jet Black |
| B |  | | 9001 | Cream |
| C | | | 5005 | Signal Blue |
| D |  | | 4004 | Claret Violet |
| E | | | 6002 | Leaf Green |
| F | | | 8011 | Nut Brown |
| G |  | | 7031 | Blue Grey |
| H |  | | 4003 | Heather Violet |
| J | | | 1001 | Beige |
| K | | | 1027 | Curry |
| L |  | | 6018 | Yellow Green |
| M | | | 2003 | Pastel Orange |
| O | | | 6027 | Light Green |
| Z | | | 5021 | Water Blue |

# HSD CABLE ASSEMBLIES

## HSD Cable Assemblies



| Part Number | Description | Wiring Configuration |
|---|---|---|
| HSDSJXRJXXXXX04 | HSD Straight Jack to Right Angle Jack, DACAR 535 C/A | 1-4, 2-3, 3-2, 4-1 |
| HSDSJXSJXXXXX07 | HSD Straight Jack to Straight Jack, DACAR 535 C/A | 1-4, 2-3, 3-2, 4-1 |
| HSDSJXSJXXXXX08 | HSD Straight Jack to Straight Jack, DACAR 535 C/A | 1-1, 2-2, 3-3, 4-4 |

# HSD CONNECTORS

## Single Straight Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2HSD-NXSJ-C44W0 | C44 | DACAR 535 Type | 349-50864 |

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2HSD-SXSJ-C44W0 | C44 | DACAR 535 Type | 349-50864 |

## Single Straight Plug

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2HSD-NXSP-C44W1 | C44 | DACAR 535 Type | 349-50864 |

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 2HSD-SXSP-C44W1 | C44 | DACAR 535 Type | 349-50864 |

## Right Angle Jack

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3HSD-DXRJ-C44W0 | C44 | DACAR 535 Type | 349-50867 |

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3HSD-LXRJ-C44W0 | C44 | DACAR 535 Type | 349-50867 |

*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3HSD-RXRJ-C44W0 | C44 | DACAR 535 Type | 349-50867 |

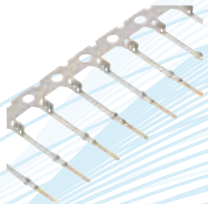
*Without Mounting Clip Provision*

| Part Number | Cable Code | Cable Type | Cable Assembly Instructions |
|---|---|---|---|
| 3HSD-UXRJ-C44W0 | C44 | DACAR 535 Type | 349-50867 |

## Straight Female Contacts

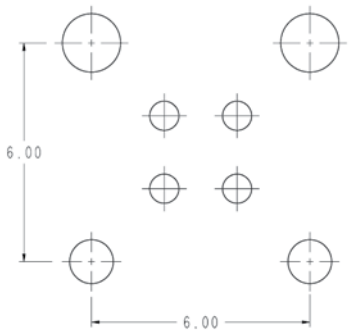
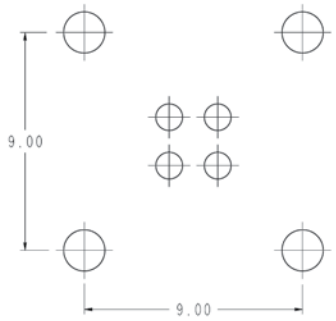
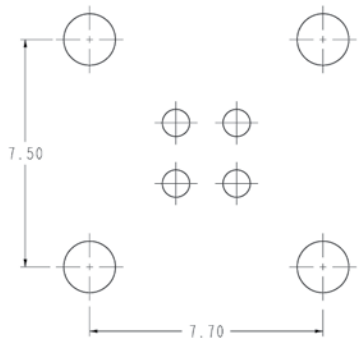
| Part Number | Description | Cable Type |
|---|---|---|
| HDCP00401 | Straight Female Contact | DACAR 535 Type |

## Straight Male Contact



| Part Number | Description | Cable Type |
|---|---|---|
| HDCP00501 | Straight Male Contact | DACAR 535 Type |

# HSD PCB CONNECTORS

| Image | Part Number | PCB Layout Reference |
|---|---|---|
| | **HSD-NXSP-PCB-2X** |   |
| | **HSD-NXRP-PCB-3X** |   |
| | **HSD-NXRP-PCB13X** |   |

# Index


| Part Number | |
|---|---|
| 2FA16NXSP-C01-1 | 21 |
| 2FA16NXSP-C04-1 | 21 |
| 2FA1-NXRP-PCB-5 | 24 |
| 2FA1-NXRP-PCB-6 | 24 |
| 2FA1-NXRP-PCBA3 | 24 |
| 2FA1-NXRP-PCBB2 | 25 |
| 2FA1-NXRP-PCBD1 | 24 |
| 2FA1-NXSP-C01-1 | 18 |
| 2FA1-NXSP-C01E1 | 20 |
| 2FA1-NXSP-C01E6 | 20 |
| 2FA1-NXSP-C01W1 | 18 |
| 2FA1-NXSP-C04-1 | 18 |
| 2FA1-NXSP-C04E1 | 20 |
| 2FA1-NXSP-C04E6 | 20 |
| 2FA1-NXSP-C04W1 | 18 |
| 2FA1-NXSP-C65-1 | 18 |
| 2FA1-NXSP-C65E1 | 20 |
| 2FA1-NXSP-C65E6 | 20 |
| 2FA1-NXSP-C65W1 | 18 |
| 2FA1-NXSP-C71-1 | 18 |
| 2FA1-NXSP-C71W1 | 18 |
| 2FA1-NXSP-D46W1 | 18 |
| 2FA1-NXSP-M59W1 | 18 |
| 2FA1-NXSP-PCB-3 | 26 |
| 2FA1-NXSP-PCBA9 | 27 |
| 2FA1-NXSP-PCBB6 | 27 |
| 2FA1-NXSP-PCBC5 | 27 |
| 2FA1-NXSPTC01W6 | 18 |
| 2FA1-NXSPTC04W6 | 18 |
| 2FA1-NXSPTC65W6 | 18 |
| 2FA1-WXSP-1000 | 26 |
| 2FA1-WXSP-PCBA3 | 26 |
| 2FAH-NXSP-C00W6 | 18 |
| 2FAH-NXSP-C00W9 | 18 |
| 2FAH-NXSP-C01W6 | 18 |
| 2FAH-NXSP-C01W9 | 18 |
| 2FAH-NXSP-C04W6 | 18 |
| 2FAH-NXSP-C04W9 | 18 |

| Part Number | |
|---|---|
| 2FAH-NXSP-C88W9 | 18 |
| 2FAH-NXSP-C99W9 | 18 |
| 2FAH-NXSP-PCB-1 | 28 |
| 2FAH-NXSP-PCB-2 | 28 |
| 2HSD-NXSJ-C44W0 | 31 |
| 2HSD-NXSP-C44W1 | 31 |
| 2HSD-SXSJ-C44W0 | 31 |
| 2HSD-SXSP-C44W1 | 31 |
| 3FA16NXSJ-C01-6 | 21 |
| 3FA16NXSJ-C04-6 | 21 |
| 3FA1ENXRJ-C01-3 | 17 |
| 3FA1ENXRJ-C01ER | 20 |
| 3FA1ENXRJ-C04-3 | 17 |
| 3FA1ENXRJ-C04E3 | 20 |
| 3FA1ENXRJ-C65-3 | 17 |
| 3FA1ENXRJ-C65E3 | 20 |
| 3FA1ENXRJ-C71-3 | 17 |
| 3FA1ENXRJ-M59-3 | 17 |
| 3FA1ENXSJ-C01ES | 20 |
| 3FA1ENXSJ-C04E0 | 20 |
| 3FA1ENXSJ-C04ES | 20 |
| 3FA1ENXSJ-C65ES | 20 |
| 3FA1MNXRJ-C01F6 | 17 |
| 3FA1MNXRJ-C04F6 | 17 |
| 3FA1MNXRJ-C65F6 | 17 |
| 3FA1-NXSJ-C01E0 | 20 |
| 3FA1-NXSJ-C01E6 | 20 |
| 3FA1-NXSJ-C01W0 | 17 |
| 3FA1-NXSJ-C01W6 | 17 |
| 3FA1-NXSJ-C04W0 | 17 |
| 3FA1-NXSJ-C04W6 | 17 |
| 3FA1-NXSJ-C65W0 | 17 |
| 3FA1-NXSJ-C65W6 | 17 |
| 3FA1-NXSJ-D46W0 | 17 |
| 3FA1-NXSJ-D46W6 | 17 |
| 3FA1-NXSJ-M59W0 | 17 |
| 3FA1-NXSJ-M59W6 | 17 |
| 3FAH-NXSJ-C00W6 | 17 |

| Part Number | |
|---|---|
| 3FAH-NXSJ-C01W6 | 17 |
| 3FAH-NXSJ-C04W6 | 17 |
| 3FAH-NXSJ-C88W6 | 17 |
| 3FAH-NXSJ-C99W6 | 17 |
| 3HSD-DXRJ-C44W0 | 32 |
| 3HSD-LXRJ-C44W0 | 32 |
| 3HSD-RXRJ-C44W0 | 32 |
| 3HSD-UXRJ-C44W0 | 32 |
| 4FA1-NXRJ-C01W3 | 15 |
| 4FA1-NXRJ-C04W3 | 15 |
| 4FA1-NXRJ-C65W3 | 15 |
| 4FA1-NXRJ-M59W3 | 15 |
| 4FA1-NXRP-PCB-3 | 27 |
| 4FA1-NXRP-PCB-4 | 23 |
| 4FA1-NXRP-PCB-6 | 23 |
| 4FA1-NXRP-PCB-8 | 23 |
| 4FA1-NXSJ-C01W0 | 15 |
| 4FA1-NXSJ-C01W6 | 15 |
| 4FA1-NXSJ-C04W0 | 15 |
| 4FA1-NXSJ-C04W6 | 15 |
| 4FA1-NXSJ-C65W0 | 15 |
| 4FA1-NXSJ-C65W6 | 15 |
| 4FA1-NXSJ-M59W0 | 15 |
| 4FA1-NXSJ-M59W6 | 15 |
| 4FA1-NXSP-C01W1 | 16 |
| 4FA1-NXSP-C04W1 | 16 |
| 4FA1-NXSP-C65W1 | 16 |
| 4FA1-NXSP-M59W1 | 16 |
| 4FAH-NXSJ-C00W6 | 16 |
| 4FAH-NXSJ-C01W6 | 16 |
| 4FAH-NXSJ-C04W6 | 16 |
| 4FAH-NXSJ-C99W6 | 16 |
| 4FAH-NXSP-C00W9 | 16 |
| 4FAH-NXSP-C01W9 | 16 |
| 4FAH-NXSP-C04W9 | 16 |
| 4FAH-NXSP-C99W9 | 16 |
| 923-40116 | 16 |
| 923-40117 | 16 |

| Part Number | |
|---|---|
| 923-40118 | 16 |
| 923-40120 | 16 |
| 923-40121 | 16 |
| 923-40122 | 16 |
| 923-40144 | 16 |
| APH-FKJ-SMAJ | 22 |
| APH-FKP-SMAP | 22 |
| FA1-NXRP-PCB-6A | 25 |
| FA1-NXRP-PCB-8A | 25 |
| FA1-NXRP-PCBT10 | 25 |
| FA1-NXRP-PCBT17 | 26 |
| FA1-NXSJ-C01-0 | 19 |
| FA1-NXSJ-C01-6 | 19 |
| FA1-NXSJ-C04-0 | 19 |
| FA1-NXSJ-C04-6 | 19 |
| FA1-NXSP-C01-0 | 19 |
| FA1-NXSP-C01-1 | 19 |
| FA1-NXSP-C01-5 | 19 |
| FA1-NXSP-C04-0 | 19 |
| FA1-NXSP-C04-1 | 19 |
| FA1-NXSP-PCB-2 | 28 |
| FKCP03301A | 17, 21 |
| FKCP03302 | 17, 21 |
| FKCP03303 | 17 |
| FKCP03401A | 18, 21 |
| FKCP03402 | 18, 21 |
| FKCP03403 | 18 |
| FKCP08402 | 21 |
| FKCP08404 | 16 |
| FKCP08405 | 16 |
| HDCP00401 | 32 |
| HDCP00501 | 32 |
| HSD-NXRP-PCB13X | 33 |
| HSD-NXRP-PCB-3X | 33 |
| HSD-NXSP-PCB-2X | 33 |
| HSDSJXRJXXXXX04 | 31 |
| HSDSJXSJXXXXX07 | 31 |
| HSDSJXSJXXXXX08 | 31 |

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