Amphenol® RF Automotive Solutions

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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

EUROPE

The Netherlands

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

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

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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

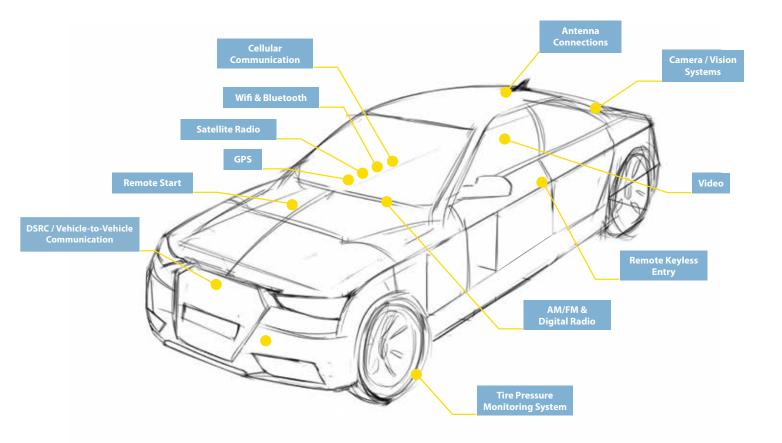
Amphenol RF is proud to be a continued world leader in improving environmental issues in the global marketplace. We are committed to meeting and exceeding the ever changing expanse of environmental compliance requirements. Amphenol works diligently with our customers on a variety of environmental protocols. 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
GE 1.	Unassembled Housing	Hand Tooling	Low Volume	USCAR-17 USCAR-18 DIN 72594-1	Tray Pack Bulk Components
GE 2.	Machined Contact		Low Volume	USCAR-17 USCAR-18 DIN 72594-1	Tray Pack Bulk Components
GE 2.	FIE-Assembled Housin	Automated Tooling g Semi-Automated Tooling	High Volume	USCAR-17 USCAR-18 DIN 72594-1	Tray Pack Contacts sold separately on tape and reel
GE 3.	Pre-Assembled Housin	Automated Tooling g Semi-Automated Tooling	High Volume	USCAR-17 USCAR-18 DIN 72594-1	Tray Pack Contacts sold separately on tape and reel
GE 4.	Stamped Sleeve	Fully Automated Tooling	High Volume	USCAR-17 USCAR-18 DIN 72594-1 6Q0.90.961D 6Q0.90.961E	Tray Pack for Housing Other components sold on tape and reel
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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 ΜΩ		
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	\leq 40 N (Single FAKRA)
Plastic Housing - Disengagement Force	\geq 35 N (Single FAKRA)
Cable Retention Force	> 110 N
Coding	14 mechanical and colored codings
Interface	USCAR-18, DIN

ENVIRONMENTAL

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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

Body Cable Mount Connectors Nickel, Tin
PCB Mount Connectors Nickel, Gold, Tin
Ferrule Nickel

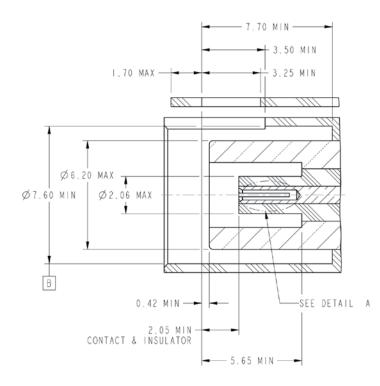
FAKRA/USCAR MECHANICAL CODING

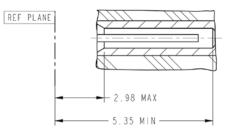
	Jack	Plug	RAL	Color	Application
Α	8	ð	9005	Jet Black	DAB/AM-FM
В	U	ð	9001	Cream	DAB with Power / AM-FM
С	8	ð	5005	Signal Blue	GPS
D		Ö	4004	Claret Violet	Cellular Phone
E	8	ð	6002	Leaf Green	TV / SDARS Terrestrial
F		Ö	8011	Nut Brown	TV / SDARS Terrestrial / Camera
G		Ø	7031	Blue Grey	SDARS Terrestrial
н	đ	å	4003	Heather Violet	GPS Navigation
I	Ō	Ø	1001	Beige	Bluetooth / VPM
К		Ø	1027	Curry	SDARS Satellite AM-FM
L		Ö	3002	Carmine Red	VPM
М		Ö	2003	Pastel Orange	RKE / TPMS
Ν	8	Ó	6019	Pastel Green	DSRC / VPM
Z		Ö	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

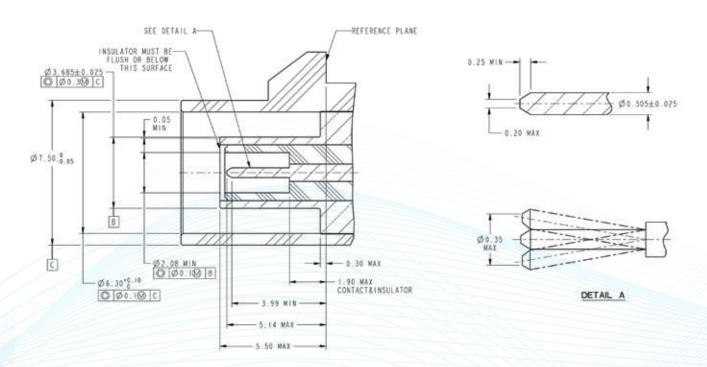




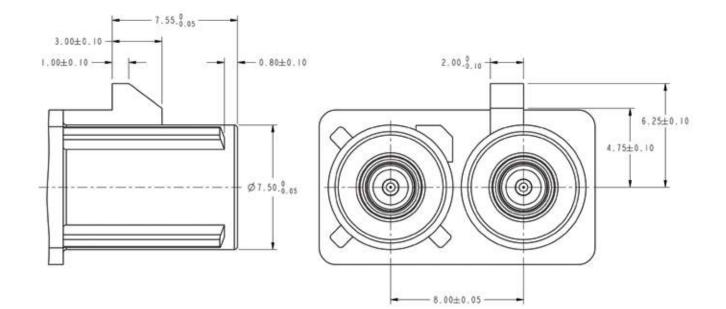


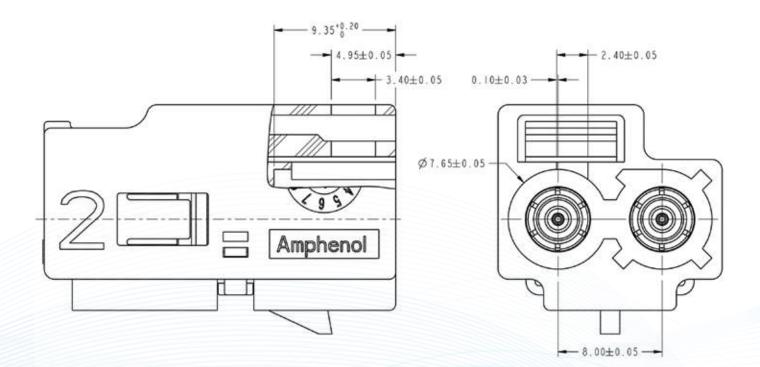
DETAIL A

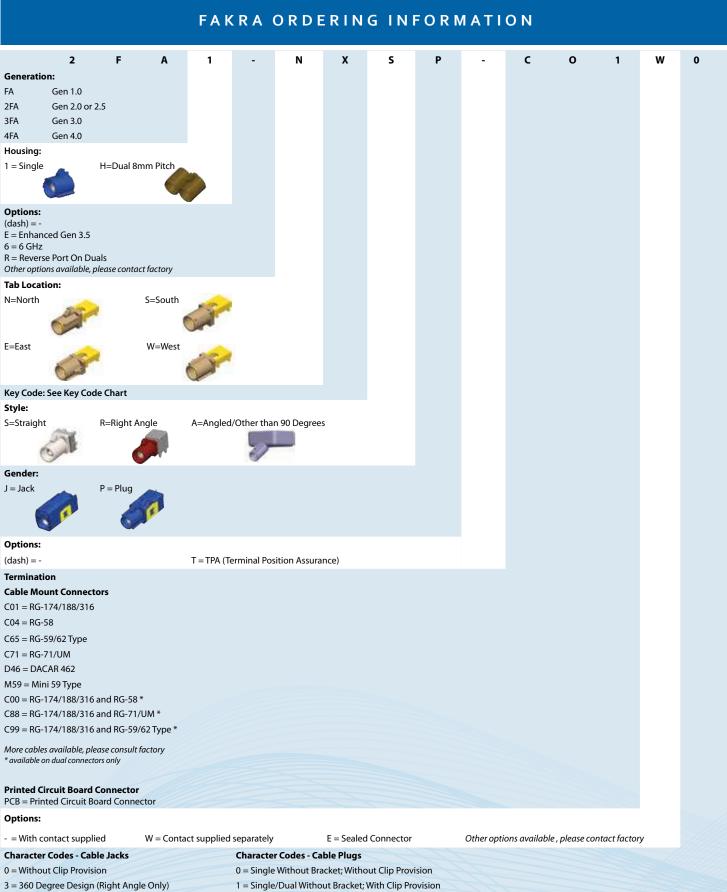
FAKRA Plug Interface



Dual - 8mm (High-Density) Housing







6 = Single/Dual Without Bracket; With Clip Provision

9 = Dual Without Bracket; Without Clip Provision

6 = Single/Dual With Clip Provision

S = Low Profile 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



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

Without 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

With Mounting Clip Provision

Single Right Angle Jack

Part Number	Cable Code	Cable Type	Cable Assembly Instruction
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

Without Mounting Clip Provision

Single Straight Plug



Cable Code	Cable Type	Cable Assembly Instructions
C01	RG-174/188/316	349-50874
C04	RG-58	349-50874
C65	RG-59/62 Type	349-50874
M59	Mini 59 Type	349-50874
	C01 C04 C65	C01 RG-174/188/316 C04 RG-58 C65 RG-59/62 Type

Without Mounting Clip Provision

Dual Straight Jack



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

With Mounting Clip Provision

Dual Straight Plug



	Part Number	Cable Code	Cable Type	Cable Assembly Instructions
1 - 2 2 2 2	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
Without Mounting Clip Provision	4FAH-NXSP-C99W9	C99	RG-174/188/316 and RG 59/62	349-50913

Straight Female Contacts

15	Part Number	Description	Cable Type
R	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	
the second	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
40116	Straight Male Contact	RG-174/188/316 and RG-59/6
23-40117	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



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

Without Mounting Clip Provision



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)



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

Cable Type

Without Mounting Clip Provision

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



3FA1MNXRJ-C01F6 C01 RG-174/188/316 349-50785 3FA1MNXRJ-C04F6 C04 RG-58 349-50785 3FA1MNXRJ-C65F6 C65 RG-59/62 349-50785

Cable Code

With Mounting Clip Provision

Dual Straight Jack



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

With Mounting Clip Provision

Straight Female Contacts

Part Number	Description	Cable Type
FKCP03301A	Straight Female Contact	RG-174/188/316, RG 59, RG-71/UM and DACAR 46
FKCP03302	Straight Female Contact	RG-58
FKCP03303	Straight Female Contact	Mini 59 Type

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

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 preassembled 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.

Cable Code

C01

C04

C65

C71

D46

M59

GEN 2.5 FAKRA CABLE CONNECTOR Single Straight Plug

Part Number

2FA1-NXSP-C01W1

2FA1-NXSP-C04W1

2FA1-NXSP-C65W1

2FA1-NXSP-C71W1

2FA1-NXSP-D46W1

2FA1-NXSP-M59W1



Without Mounting Clip Provision



With Mounting Clip Provision

C



Without Mounting Clip Provision



With Mounting Clip Provision

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



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

Without Mounting Clip Provision *Specific mechanical key code designation replaces "X" in all part numbers listed.

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

Cable Type

RG-58

RG-59/62

RG-71/UM

DACAR 462

Mini 59 Type

RG-174/188/316

Cable Assembly Instructions

349-50914 349-50914

349-50914

349-50914

349-50914

349-50914

Dual	Strai	ight	Plug	J

12	
Core .	



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

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

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



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

Without 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

With Mounting Clip Provision

Single Straight Plug



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

Without Mounting Clip Provision

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

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

Without Mounting Clip Provision

*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



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

Without Mounting Clip Provision



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

With Mounting Clip Provision

Low Profile Sealed Single Straight Jack



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

Without Mounting Clip Provision

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

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

Without Mounting Clip Provision

Sealed Single Straight Plug

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
	2FA1-NXSP-C01E1 2FA1-NXSP-C04E1	2FA1-NXSP-C01E1 C01 2FA1-NXSP-C04E1 C04	2FA1-NXSP-C01E1 C01 RG-174/188/316, DACAR 462 2FA1-NXSP-C04E1 C04 RG-58

Without 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

With Mounting Clip Provision

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
	FKCP03301A FKCP08402	FKCP03301AStraight Female Contact, Selective PlatedFKCP08402Straight Female Contact, Gold Plated

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



 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

With Mounting Clip Provision

Single Straight Plug

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

Without Mounting Clip Provision

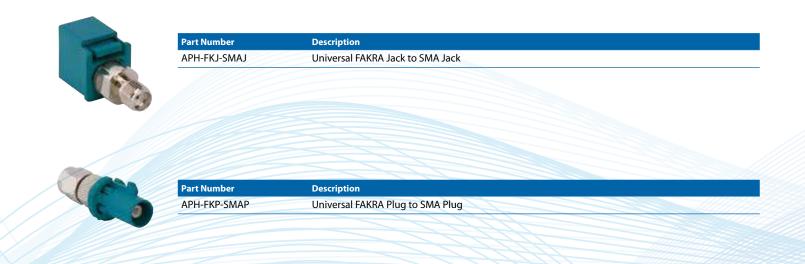
*Specific mechanical key code designation replaces "X" in all part numbers listed.



COLUMN & COLOR

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.



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.

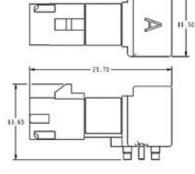


Image	Part Number	Line Drawing	PCB Layout Reference
	2FA1-NXRP-PCBA3		
		I I	



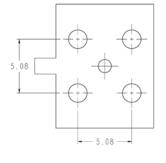
2FA1-NXRP-PCBD1

2FA1-NXRP-PCB-5



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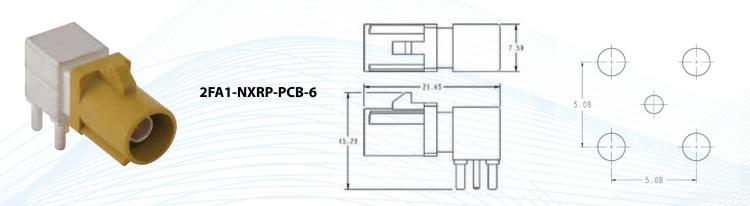
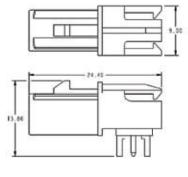
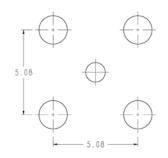


Image	Part Number	Line Drawing	PCB Layout Reference
	2FA1-NXRP-PCBB2		



FA1-NXRP-PCB-6A

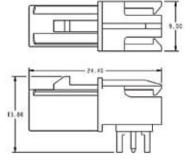


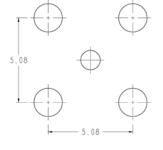


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FA1-NXRP-PCB-8A





FA1-NXRP-PCBT10 FA1-NXRP-PCBT10

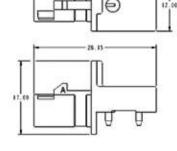
*Refer to customer outline drawing for detailed PCB layout dimensions

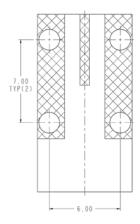
Image	Part Number	Line Drawing	PCB Layout Reference
	FA1-NXRP-PCBT17		

Single Edgemount PCB



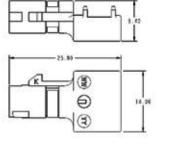
2FA1-NXSP-PCB-3

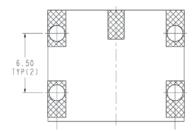






2FA1-WXSP-1000





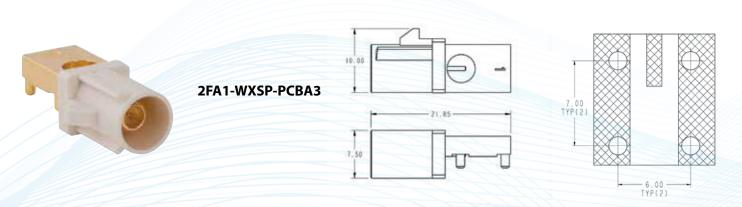
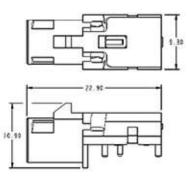
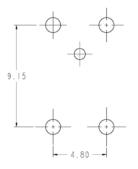


Image	Part Number	Line Drawing	PCB Layout Reference
	2FA1-NXSP-PCBA9		7,00 TYP(2)

4FA1-NXRP-PCB-3

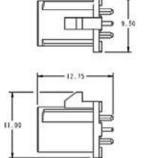


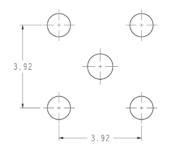


Single Vertical PCB Mount



2FA1-NXSP-PCBC5





2FA1-NXSP-PCBB6

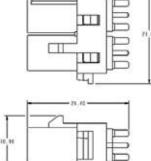
*Refer to customer outline drawing for detailed PCB layout dimensions

Image	Part Number	Line Drawing	PCB Layout Reference
	FA1-NXSP-PCB-2		$5.08 \qquad \qquad$

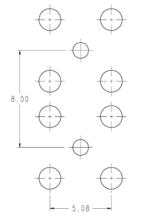
Dual Vertical PCB Mount

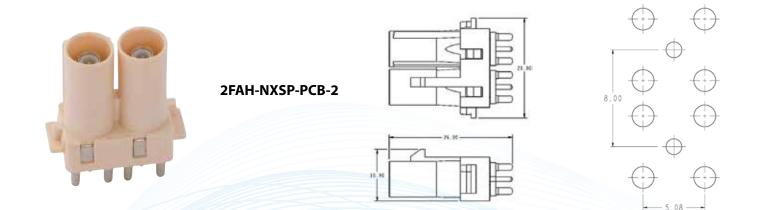


2FAH-NXSP-PCB-1



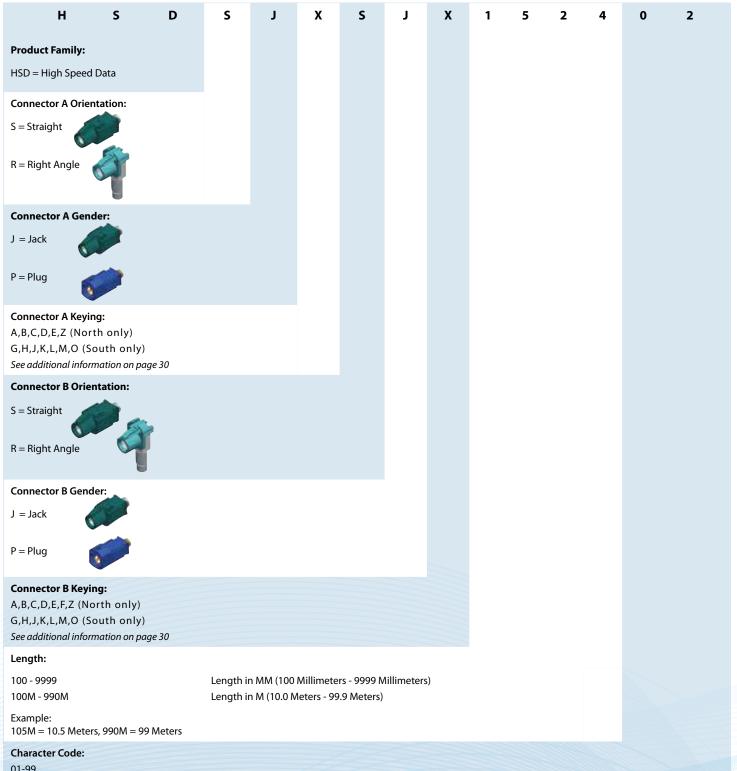
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HSD CABLE ASSEMBLY ORDERING INFORMATION

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

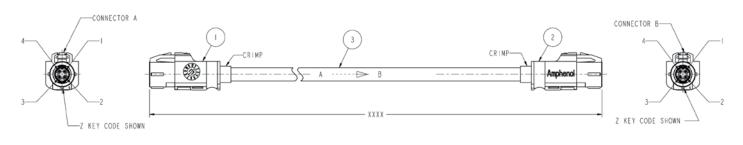
01-99 Please consult factory for additional information

HSD MECHANICAL CODING

	Jack	Plug	RAL	Color
А		ð	9005	Jet Black
В	U	ð	9001	Cream
С	Ø	ð	5005	Signal Blue
D	ā	ð	4004	Claret Violet
E	B	ð	6002	Leaf Green
F		Ö	8011	Nut Brown
G		ð	7031	Blue Grey
н	đ	ð	4003	Heather Violet
J	Q		1001	Beige
К		Ô	1027	Curry
L		Ó	6018	Yellow Green
М		Ò	2003	Pastel Orange
0	Q		6027	Light Green
z		Ö	5021	Water Blue

HSD CABLE ASSEMBLIES

HSD Cable Assemblies





Part Number	Description	Wiring Configuration
HSDSJXRJXXXX04	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
HSDSJXSJXXXX08	HSD Straight Jack to Straight Jack, DACAR 535 C/A	1-1, 2-2, 3-3, 4-4

HSD CONNECTORS

Single Straight Jack



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

Without Mounting Clip Provision

Single Straight Plug



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

Without Mounting Clip Provision

Right Angle Jack



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

Without Mounting Clip Provision

Straight Female Contacts

	Part Number	Description	Cable Type
	HDCP00401	Straight Female Contact	DACAR 535 Type
Straight Male Contact			
		- · · · ·	
	Part Number HDCP00501	Description Straight Male Contact	Cable Type DACAR 535 Type

HSD PCB CONNECTORS



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Part Number

Part Number

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2FA1-NXSP-C01-1	18	2HSD-SXSP-C44W1	31
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2FA1-NXSP-C65E6	20	3FA1ENXRJ-M59-3	17
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2FA1-NXSP-C71-1	18	3FA1ENXSJ-C04E0	20
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ORDERING INFORMATION:

To obtain information on price and delivery, please contact your nearest Amphenol RF Sales Office. For the primary customer service line, please call 1-800-627-7100.

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