

Global Locations

NORTH AMERICA

United States HQ

4 Old Newtown Road Danbury, CT o6810

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 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.o 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
ndev	27

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

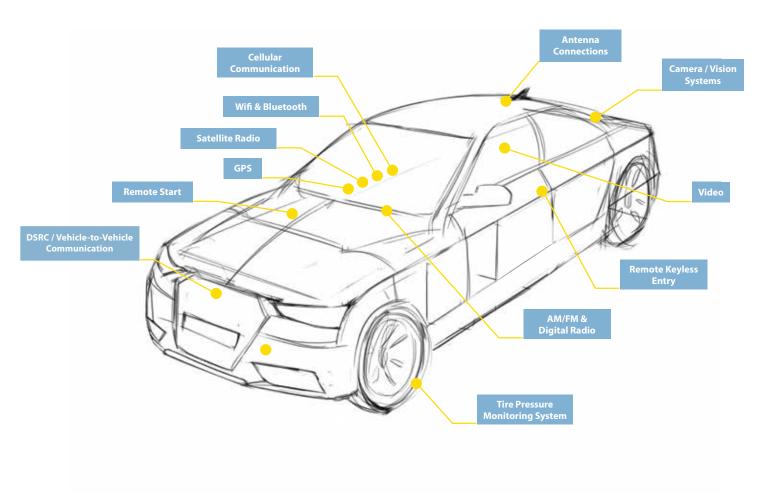
Amphenol RF is proud to be a continued world leader in improving environmental issues in the global marketplace. We are committed to meeting and exceeding the ever changing expanse of environmental compliance requirements. Amphenol works diligently with our customers on a variety of environmental protocols. 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





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	

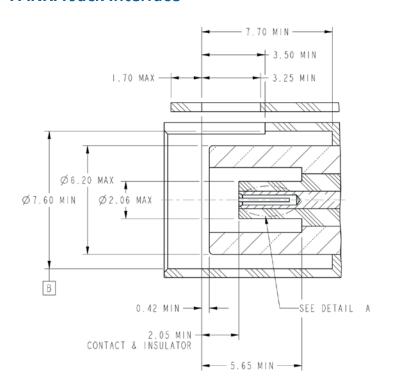
FAKRA/USCAR MECHANICAL CODING

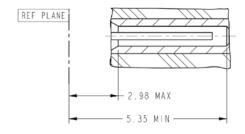
	Jack	Plug	RAL	Color	Application
Α		Ö	9005	Jet Black	DAB/AM-FM
В	8	6	9001	Cream	DAB with Power / AM-FM
С	8	Ö	5005	Signal Blue	GPS
D		Ö	4004	Claret Violet	Cellular Phone
E		ð	6002	Leaf Green	TV / SDARS Terrestrial
F		Ö	8011	Nut Brown	TV / SDARS Terrestrial / Camera
G		Ö	7031	Blue Grey	SDARS Terrestrial
Н	5	å	4003	Heather Violet	GPS Navigation
I		Ö	1001	Beige	Bluetooth / VPM
K		٥	1027	Curry	SDARS Satellite AM-FM
L		Ō	3002	Carmine Red	VPM
M	5	Ö	2003	Pastel Orange	RKE / TPMS
N	7	Ö	6019	Pastel Green	DSRC / VPM
Z		Ö	5021	Water Blue	Universal (Neutral) Code

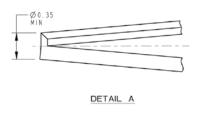
Amphenol RF's commitment to quality remains exceptionally uniform and internationally standardized, from raw materials testing, through design engineering, to automated manufacturing and sub-assembly, to fully documented and traceable test procedures developed in accordance with customer specifications.

INTERFACE DRAWINGS

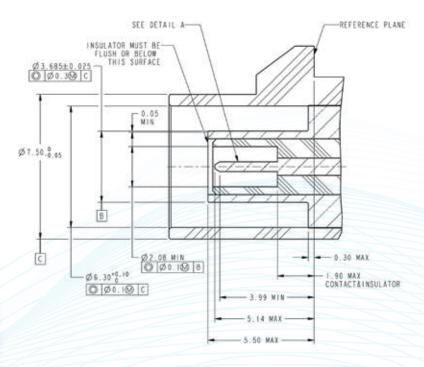
FAKRA Jack Interface

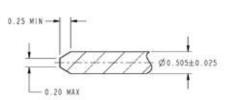


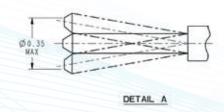




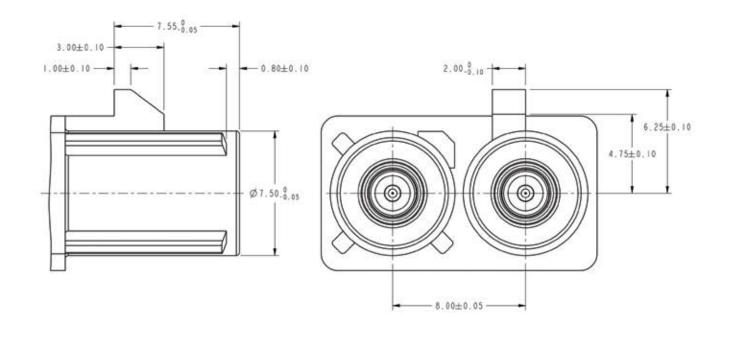
FAKRA Plug Interface

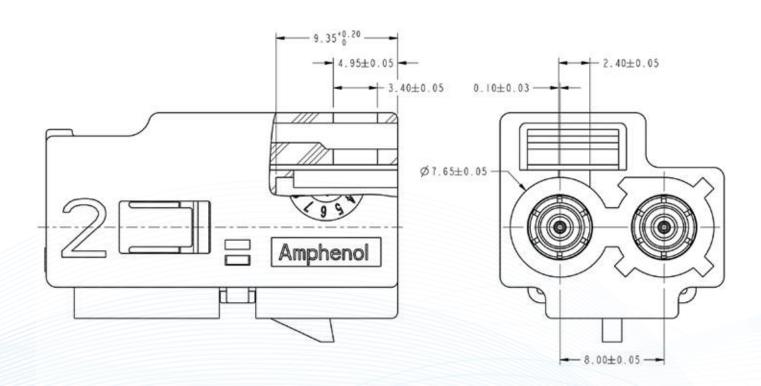




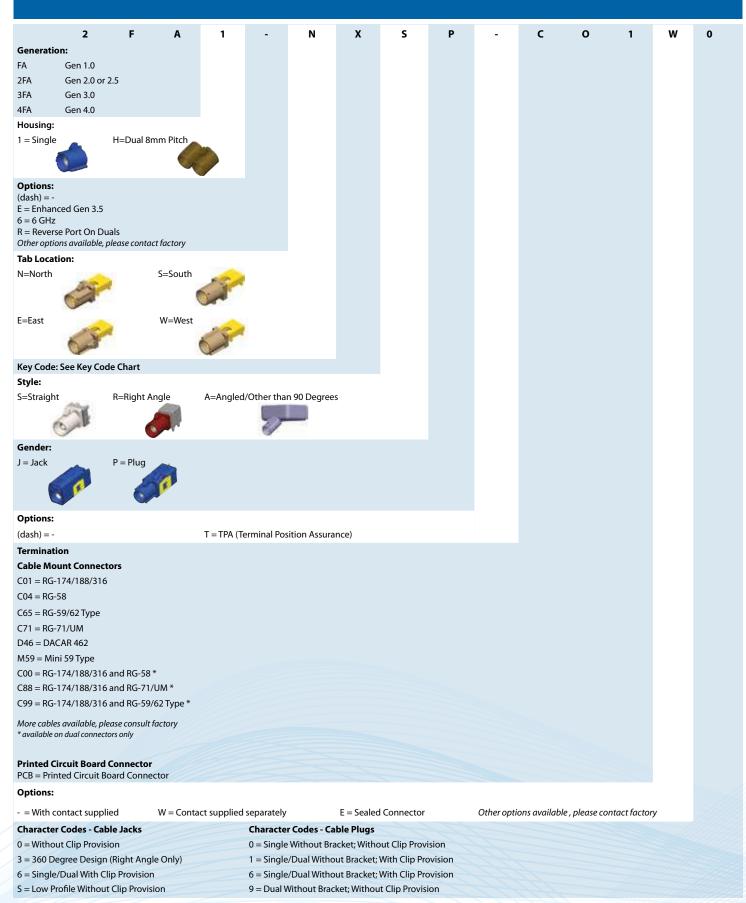


Dual - 8mm (High-Density) Housing





FAKRA ORDERING INFORMATION





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 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.

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



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.

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



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

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

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



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

Without Mounting Clip Provision

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



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

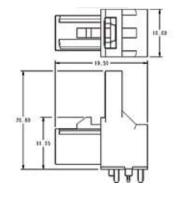
Amphenol offers a variety of FAKRA PCB mount connectors to mate to the various cable-mounted connectors shown above. Vertical, right angle, dual, and edge-mount configurations are all part of our standard offering.

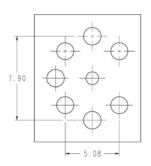
Line Drawing PCB Layout Reference Part Number Image

Single Right Angle PCB Mount -



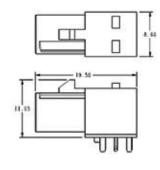
4FA1-NXRP-PCB-4

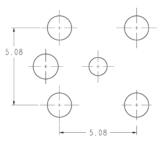






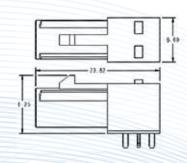
4FA1-NXRP-PCB-6

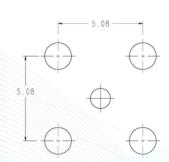






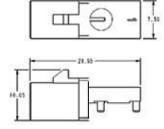
4FA1-NXRP-PCB-8







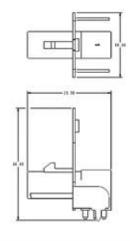
2FA1-NXRP-PCBA3

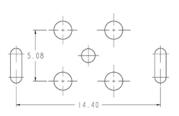






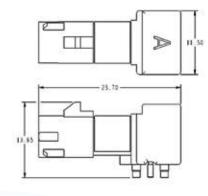
2FA1-NXRP-PCBD1

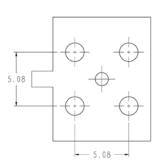






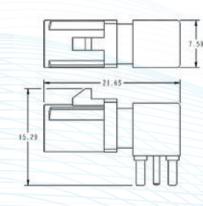
2FA1-NXRP-PCB-5

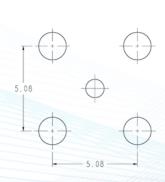






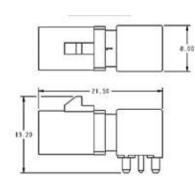
2FA1-NXRP-PCB-6

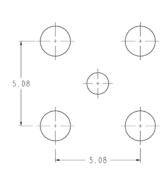






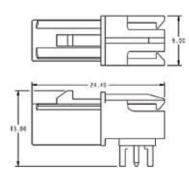
2FA1-NXRP-PCBB2

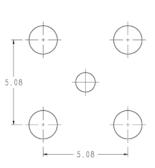






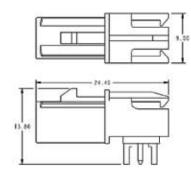
FA1-NXRP-PCB-6A

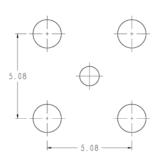






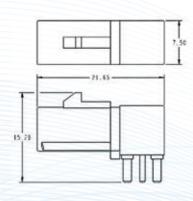
FA1-NXRP-PCB-8A

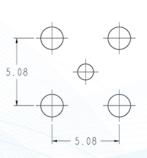






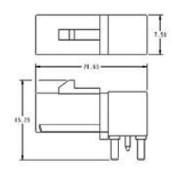
FA1-NXRP-PCBT10

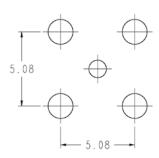






FA1-NXRP-PCBT17

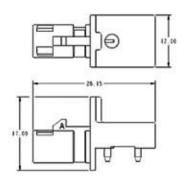


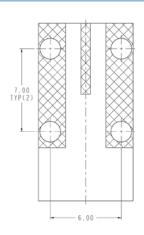


Single Edgemount PCB



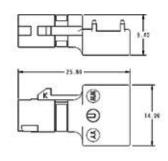
2FA1-NXSP-PCB-3

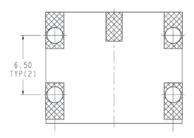






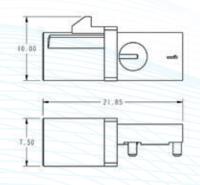
2FA1-WXSP-1000

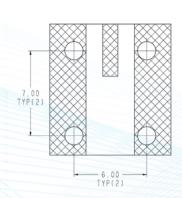






2FA1-WXSP-PCBA3

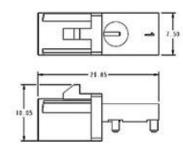


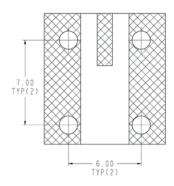


Line Drawing **PCB Layout Reference Part Number I**mage



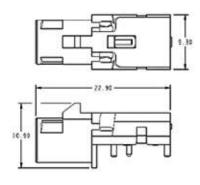
2FA1-NXSP-PCBA9

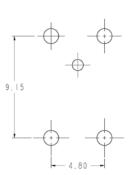






4FA1-NXRP-PCB-3

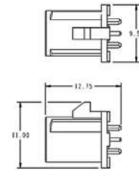


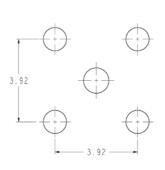


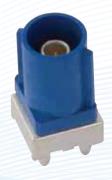
Single Vertical PCB Mount



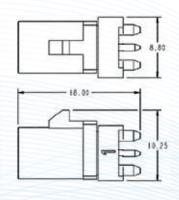
2FA1-NXSP-PCBC5

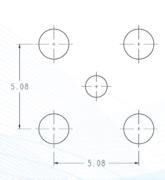






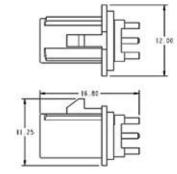
2FA1-NXSP-PCBB6

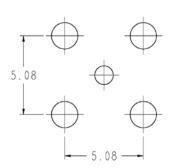






FA1-NXSP-PCB-2

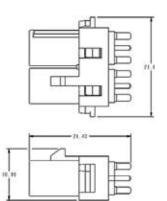


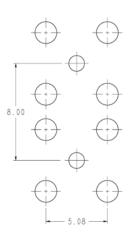


Dual Vertical PCB Mount



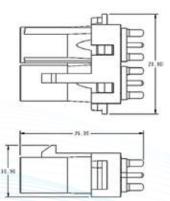
2FAH-NXSP-PCB-1

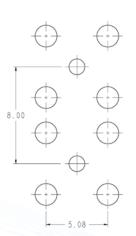






2FAH-NXSP-PCB-2

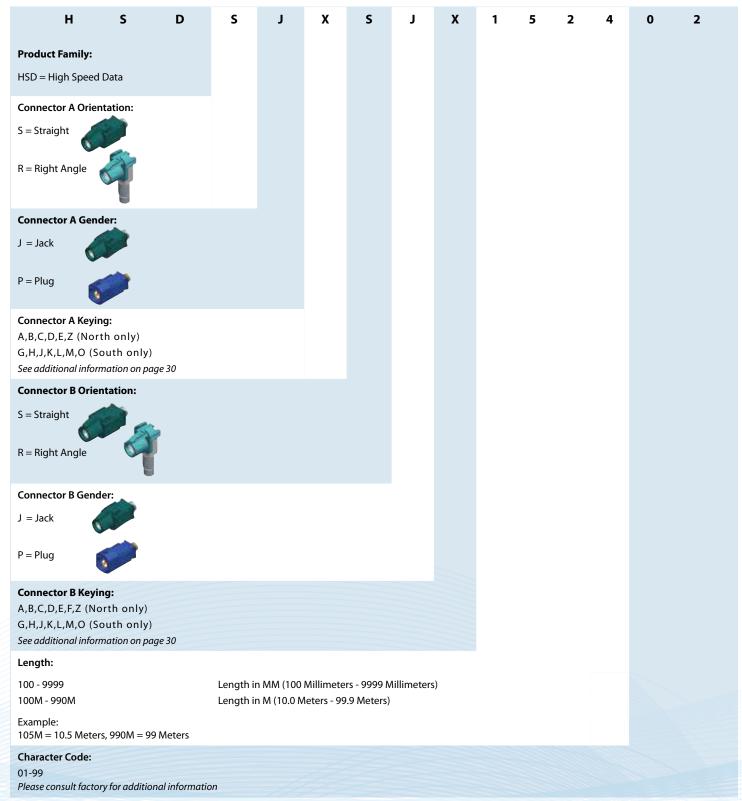




HSD CABLE ASSEMBLY ORDERING INFORMATION

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

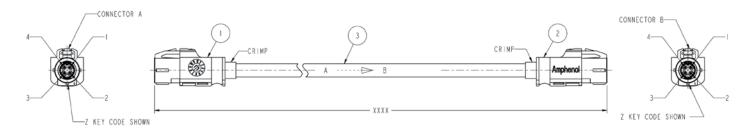


HSD MECHANICAL CODING

	Jack	Plug	RAL	Color
Α		Ö	9005	Jet Black
В	5	8	9001	Cream
С		Ö	5005	Signal Blue
D		Ö	4004	Claret Violet
E		ð	6002	Leaf Green
F		Ö	8011	Nut Brown
G	5	Ö	7031	Blue Grey
н		å	4003	Heather Violet
J			1001	Beige
K		٥	1027	Curry
L		Ō	6018	Yellow Green
М		Ö	2003	Pastel Orange
0			6027	Light Green
Z		Ö	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 Provisi
1

Without Mounting Clip Provision

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

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

Right Angle Jack



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



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



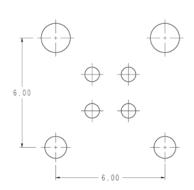
Part Number	Description	Cable Type
HDCP00501	Straight Male Contact	DACAR 535 Type

HSD PCB CONNECTORS

Part Number PCB Layout Reference Image

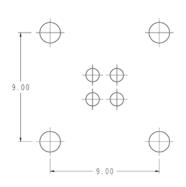


HSD-NXSP-PCB-2X



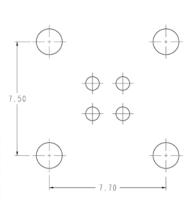


HSD-NXRP-PCB-3X





HSD-NXRP-PCB13X



Index

Part Number	Part Number		Part Number		Part Number	
2FA16NXSP-C01-1 21	2FAH-NXSP-C88W9	18	3FAH-NXSJ-C01W6	17	923-40118	16
2FA16NXSP-C04-1 21	2FAH-NXSP-C99W9	18	3FAH-NXSJ-C04W6	17	923-40120	16
2FA1-NXRP-PCB-5 24	2FAH-NXSP-PCB-1	28	3FAH-NXSJ-C88W6	17	923-40121	16
2FA1-NXRP-PCB-6 24	2FAH-NXSP-PCB-2	28	3FAH-NXSJ-C99W6	17	923-40122	16
2FA1-NXRP-PCBA3 24	2HSD-NXSJ-C44W0	31	3HSD-DXRJ-C44W0	32	923-40144	16
2FA1-NXRP-PCBB2 25	2HSD-NXSP-C44W1	31	3HSD-LXRJ-C44W0	32	APH-FKJ-SMAJ	22
2FA1-NXRP-PCBD1 24	2HSD-SXSJ-C44W0	31	3HSD-RXRJ-C44W0	32	APH-FKP-SMAP	22
2FA1-NXSP-C01-1 18	2HSD-SXSP-C44W1	31	3HSD-UXRJ-C44W0	32	FA1-NXRP-PCB-6A	25
2FA1-NXSP-C01E1 20	3FA16NXSJ-C01-6	21	4FA1-NXRJ-C01W3	15	FA1-NXRP-PCB-8A	25
2FA1-NXSP-C01E6 20	3FA16NXSJ-C04-6	21	4FA1-NXRJ-C04W3	15	FA1-NXRP-PCBT10	25
2FA1-NXSP-C01W1 18	3FA1ENXRJ-C01-3	17	4FA1-NXRJ-C65W3	15	FA1-NXRP-PCBT17	26
2FA1-NXSP-C04-1 18	3FA1ENXRJ-C01ER	20	4FA1-NXRJ-M59W3	15	FA1-NXSJ-C01-0	19
2FA1-NXSP-C04E1 20	3FA1ENXRJ-C04-3	17	4FA1-NXRP-PCB-3	27	FA1-NXSJ-C01-6	19
2FA1-NXSP-C04E6 20	3FA1ENXRJ-C04E3	20	4FA1-NXRP-PCB-4	23	FA1-NXSJ-C04-0	19
2FA1-NXSP-C04W1 18	3FA1ENXRJ-C65-3	17	4FA1-NXRP-PCB-6	23	FA1-NXSJ-C04-6	19
2FA1-NXSP-C65-1 18	3FA1ENXRJ-C65E3	20	4FA1-NXRP-PCB-8	23	FA1-NXSP-C01-0	19
2FA1-NXSP-C65E1 20	3FA1ENXRJ-C71-3	17	4FA1-NXSJ-C01W0	15	FA1-NXSP-C01-1	19
2FA1-NXSP-C65E6 20	3FA1ENXRJ-M59-3	17	4FA1-NXSJ-C01W6	15	FA1-NXSP-C01-5	19
2FA1-NXSP-C65W1 18	3FA1ENXSJ-C01ES	20	4FA1-NXSJ-C04W0	15	FA1-NXSP-C04-0	19
2FA1-NXSP-C71-1 18	3FA1ENXSJ-C04E0	20	4FA1-NXSJ-C04W6	15	FA1-NXSP-C04-1	19
2FA1-NXSP-C71W1 18	3FA1ENXSJ-C04ES	20	4FA1-NXSJ-C65W0	15	FA1-NXSP-PCB-2	28
2FA1-NXSP-D46W1 18	3FA1ENXSJ-C65ES	20	4FA1-NXSJ-C65W6	15	FKCP03301A 17	7, 21
2FA1-NXSP-M59W1 18	3FA1MNXRJ-C01F6	17	4FA1-NXSJ-M59W0	15	FKCP03302 17	7, 21
2FA1-NXSP-PCB-3 26	3FA1MNXRJ-C04F6	17	4FA1-NXSJ-M59W6	15	FKCP03303	17
2FA1-NXSP-PCBA9 27	3FA1MNXRJ-C65F6	17	4FA1-NXSP-C01W1	16	FKCP03401A 18	3, 21
2FA1-NXSP-PCBB6 27	3FA1-NXSJ-C01E0	20	4FA1-NXSP-C04W1	16	FKCP03402 18	3, 21
2FA1-NXSP-PCBC5 27	3FA1-NXSJ-C01E6	20	4FA1-NXSP-C65W1	16	FKCP03403	18
2FA1-NXSPTC01W6 18	3FA1-NXSJ-C01W0	17	4FA1-NXSP-M59W1	16	FKCP08402	21
2FA1-NXSPTC04W6 18	3FA1-NXSJ-C01W6	17	4FAH-NXSJ-C00W6	16	FKCP08404	16
2FA1-NXSPTC65W6 18	3FA1-NXSJ-C04W0	17	4FAH-NXSJ-C01W6	16	FKCP08405	16
2FA1-WXSP-1000 26	3FA1-NXSJ-C04W6	17	4FAH-NXSJ-C04W6	16	HDCP00401	32
2FA1-WXSP-PCBA3 26	3FA1-NXSJ-C65W0	17	4FAH-NXSJ-C99W6	16	HDCP00501	32
2FAH-NXSP-C00W6 18	3FA1-NXSJ-C65W6	17	4FAH-NXSP-C00W9	16	HSD-NXRP-PCB13X	33
2FAH-NXSP-C00W9 18	3FA1-NXSJ-D46W0	17	4FAH-NXSP-C01W9	16	HSD-NXRP-PCB-3X	33
2FAH-NXSP-C01W6 18	3FA1-NXSJ-D46W6	17	4FAH-NXSP-C04W9	16	HSD-NXSP-PCB-2X	33
2FAH-NXSP-C01W9 18	3FA1-NXSJ-M59W0	17	4FAH-NXSP-C99W9	16	HSDSJXRJXXXXX04	31
2FAH-NXSP-C04W6 18	3FA1-NXSJ-M59W6	17	923-40116	16	HSDSJXSJXXXXX07	31
2FAH-NXSP-C04W9 18	3FAH-NXSJ-C00W6	17	923-40117	16	HSDSJXSJXXXXX08	31



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.

Specifications in this catalog are subject to change without notice. While the information contained in this catalog has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the suitability of the products concerned for any particular use or purpose. Please contact your Amphenol RF sales representative for additional information regarding the specifications.

Amphenol is a registered trademark of Amphenol Corporation.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Connectors / Coaxial Connectors category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

89674-0827 6059674-1 630059-000 6501-1071-002 6769 7002-1541-010 7002-1572-002 7004-1512-000 7009-1511-004 7101-1541-010 7101-1571-002 7105-1521-002 7203-1571-003 7209-1511-011 7210-1511-040 7242-1511-000 7405-1521-005 7405-1521-802 804S01D04M040 8527 8547 FS11V 877931 8808-1511-001 9049-9513-000 9074-9513-000 PL11C-026 PL40-36 9408-1113-000 980-8666-005 11 SMA-50-2-6 / 111 NE 11 SMA-50-3-6 / 111 NE 1-201144-1 120919 R107003010W R112186000 R113053000W R113082097 R113236000 R114083000 R114670000W R123415000W R124076320 R124076450 R124175123 R125075000W R125075001 R125172000W R125415030 R141007161