

### Fakra & Fakra II 50Ω High Performance Cost Effective SMB for the Automotor Ind.

An Interconnection System designed to address the growing need for reliable electrical and mechanical RF interconnection within the automotive environment. Specifically for Telematic applications such as GPS, Satellite Radio, Vehicle Internet Access, Remote Vehicle Diagnosis and Bluetooth. Straight Cable Type Terminations are Crimp/Crimp while Right Angle Cable Types are Solder/Crimp.

Fakra incorporates machined components Fakra II (2<sup>nd</sup> Generation) consists Die-Cast as well as Stamped & Formed Components

#### Electrical

Impedance - 50Ω  
 Frequency Range - DC-4GHz  
 VSWR - 1.5 max (4GHz)  
 Insertion Loss - <0.3dB up to 4GHz  
 Performance Spec - SAE/USCAR-17, 18

Visit [www.amphenolrf.com](http://www.amphenolrf.com) for more information

#### Materials

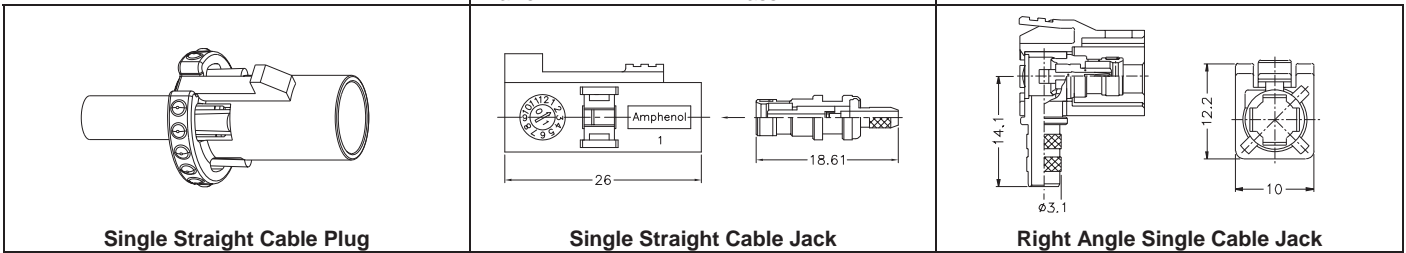
Jack/2<sup>nd</sup> Gen PCB Plug - Nylon 6/6  
 Plug/PCB Plug - PBT+15%GF  
 Body - Brass  
 2<sup>nd</sup> Locking Clip - PBT+15%GF  
 Female Contact - Beryllium Copper  
 Male Contact - Brass  
 Barrel - Brass

#### Features and Benefits

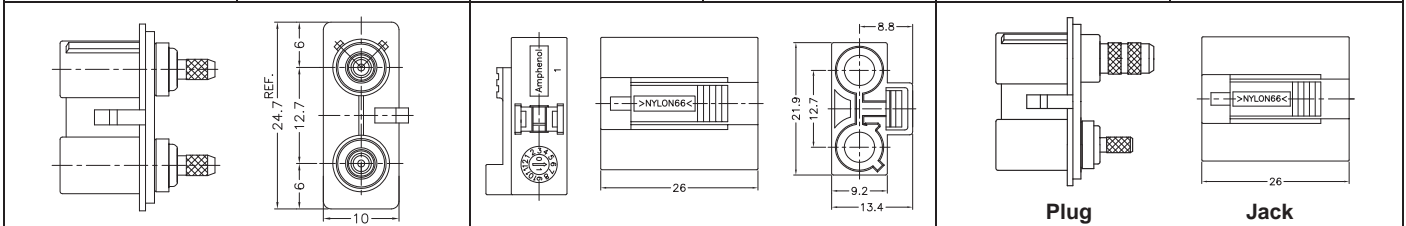
Temperature - -40°C ~ 115°C  
 Durability - 100 min  
 Vibration/Shock - Mil-STD-202

#### Applications

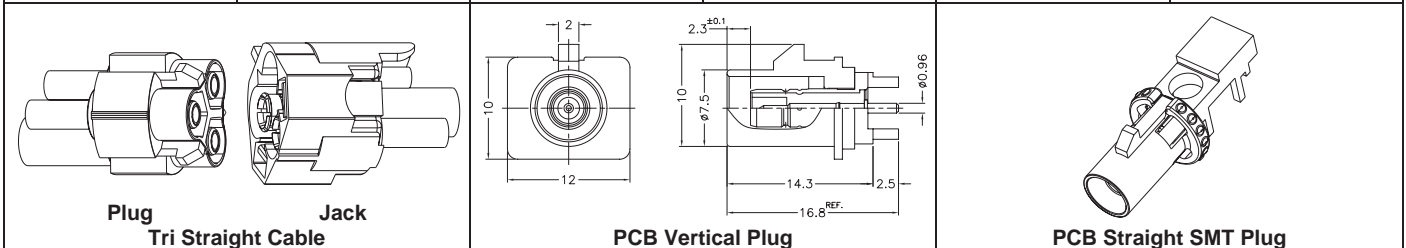
GPS, Satellite Radio, Vehicle Internet Access, Remote Vehicle Diagnosis and Bluetooth



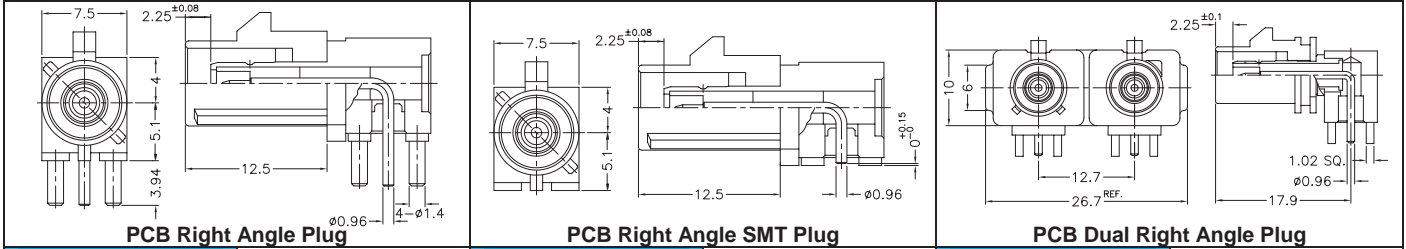
Single Straight Cable Plug		Single Straight Cable Jack		Right Angle Single Cable Jack	
Part Number	Description	Part Number	Description	Part Number	Description
FA1-NxSP-C01-1	RG174/188/316	FA1-NxSJ-C01-0	RG174/188/316	FA1-NxRJ-C01-0	RG174/188/316
FA1-NxSP-C04-1	RG58/141	FA1-NxSJ-C04-0	RG58/141	FA1-NxRJ-C04-0	RG58/141
2FA1-NxSP-C01-1	2 <sup>nd</sup> Gen RG174/188/316	2FA1-NxSJ-C01-0	2 <sup>nd</sup> Gen RG174/188/316	2FA1-NxRJ-C01-0	2 <sup>nd</sup> Gen RG174/188/316
2FA1-NxSP-C04-1	2 <sup>nd</sup> Gen RG58/141	2FA1-NxSJ-C04-0	2 <sup>nd</sup> Gen RG58/141	2FA1-NxRJ-C04-0	2 <sup>nd</sup> Gen RG58/141



Dual Straight Cable Plugs		Dual Straight Cable Jacks		Plug Combo Straight for RG58 & RG174	
Part Number	Description	Part Number	Description	Part Number	Description
FA2-NxSP-C01-9	RG174/188/316	FA2-NxSJ-C01-0	RG174/188/316	FA2-NxSP-C00-9	Plug
FA2-NxSP-C04-9	RG58/141	FA2-NxSJ-C04-0	RG58/141	2FA2-NxSP-C00-9	2 <sup>nd</sup> Gen Plug
2FA2-NxSP-C01-9	2 <sup>nd</sup> Gen RG174/188/316	2FA2-NxSJ-C01-0	2 <sup>nd</sup> Gen RG174/188/316	FA2-NxSJ-C00-6	Jack
2FA2-NxSP-C04-9	2 <sup>nd</sup> Gen RG58/141	2FA2-NxSJ-C04-0	2 <sup>nd</sup> Gen RG58/141	2FA2-NxSJ-C00-0	2 <sup>nd</sup> Gen Jack

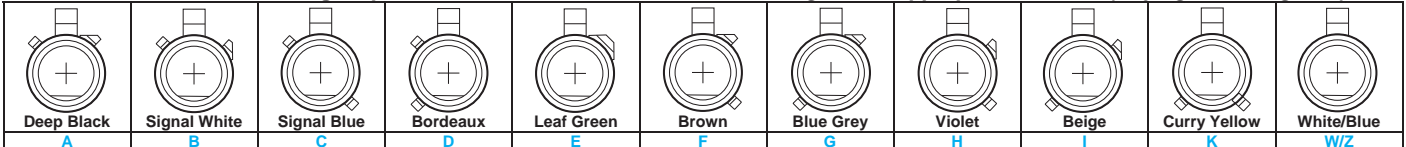


Tri Straight Cable		PCB Vertical Plug		PCB Straight SMT Plug	
Part Number	Description	Part Number	Description	Part Number	Description
FA1-NxSP-PCB-10	Part Numbers upon request	FA1-NxSP-PCB-2	FA1-NxSP-PCB-2	FA1-NxSP-PCB-X	FA1-NxSP-PCB-X



Part Number	Description	Part Number	Description	Part Number	Description
FA1-NxRP-PCB-10	FA1-NxRP-PCB-10	FA1-NxRP-PCB-11	FA1-NxRP-PCB-11	FC2-NKERP-PCB-S	FC2-NKERP-PCB-S

Mechanical And Colour Coding Replace x with code indicated below code diagram for appropriate solution (Keying from Plug side)



# Mouser Electronics

Authorized Distributor

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## Amphenol:

[2FA1-NASJ-C04-0](#) [2FA1-NCSJ-C04-0](#) [2FA1-NKSJ-C04-0](#) [2FA1-NZSJ-C04-0](#) [FA1-NBSJ-C04-0](#) [FA1-NESP-C04-1](#)  
[FA1-NFSJ-C04-0](#) [FA1-NHSJ-C04-0](#) [FA1-NISJ-C04-0](#) [FA1-NKSJ-C04-0](#) [FA1-NKSP-C04-1](#) [FA1-NZSJ-C04-0](#)