FAKRA Cable Assemblies

HD-TECH
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HD-TECH can now supply full range of FAKRA connectors and FAKRA cable assemblies for most of our antennas and panel integration. FAKRA connectors are utilized within the automotive industry. Standard uses for FAKRA are coaxial connections on devices with external antennas. Such applications include SDARS, Cellular, GPS Navigation, key-less entry and AM/FM radio.

Based on the standard SMB interface, FAKRA connector provides a mechanical key feature along with a visual color code to differentiate between applications :

Type A : Radio with feed tension
Type B : Radio without feed tension
Type C : GPS telemetry or navigation
Type D : Cellular phone
Type E : TV1 and WiFi
Type F : TV2
Type G : Remote control keyless entry
Type H : Radio Controlled Parking Heating
Type K : Radio with IF output
Type L, M, N : not defined

HD-TECH offers FAKRA connectors with a high temperature plastic shroud that is fully compatible with lead-free reflow processes. We also have a robust Diecast FAKRA that exceeds all USCAR specifications.

RF coaxial cables available for FAKRA cable assemblies : Usable on multiple RF coaxial cables such as LMR100, LMR195, RG58, RG174, RG316, RG178 and others micro coaxial cables such as 068: OD 1.13mm, 066: OD 1.32mm and 088: OD 1.37mm. Assembly with multiple RF coaxial connectors : MCX, SMA, MMCX, U.FL and others micro coax connectors. FAKRA cable assemblies examples :

FAKRA panel male code C to MCX R/A male with LMR100

FAKRA panel male code D to U.FL-LP with 068 oD 1.13mm

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HD-TECH's FAKRA connectors available for FAKRA cable assemblies :

Cable Connectors

Function / Colour	Single Straight Jack Crimp	Right angle cable mounting jack	Single Straight Jack Crimp With Clip
Radio without phantom supply / Black	3601-A	3603-A	3701-A
Radio with phantom supply / White	3601-B		3701-B
GPS / Blue	3601-C		3701-C
GSM / Bordeaux-violet		3603-D	3701-D
TV1/SDARS / Green		3603-E	3701-E
TV2/SDARS / Brown		3603-F	3701-F
Remote Control Keyless Entry / Grey	3601-G		3701-G
Radio Controlled Parking Heating / Pink	3601-H		3701-H
Bluetooth / Beige	3601-I		3701-I
Radio with IF /Curry		3603-K	3701-K
Neutral / Waterblue		3603-Z	3701-Z

Feel free to contact us for any inquiries about HD-TECH, our products, members and tailor-made services, request for quote, shipping, stock checking, ect... See our complete details on last page.

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PCB connectors

Function / Colour	Single Straight Plug Crimp	PCB mounting plug	PCB edge mounting plug	Single Plug Surface Mount	Right angle PCB mounting jack
GPS / Blue	3602-C	3604-01-C	3604-03-C	3604-02-C	
GSM / Bordeaux-violet	3602-D	3604-01-D	3604-03-D	3604-02-D	
Radio with IF /Curry					3606-02-K
Neutral / Waterblue					3606-02-Z

Converters

Function / Colour	SMA / jack converter	FME / Jack Converter
GPS / Blue	3637GTG00C1	
GSM / Bordeaux-violet	3637GTG00D1	3640NTG00D1
Neutral / Waterblue	3637GTG00Z1	[no picture] 3640NTG00X1

Features and benefits :
- 12 different mechanical and color codes
- Plastic housing with locking feature and audible clicking noise
- Minimum of 100 mating cycles
- Frequency range of DC - 4 GHz

Applications :
- Global positioning satellite
- Satellite radio
- Bluetooth and WiFi
- Vehicular internet access
- Remote vehicle diagnostics

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RoHS Compliant