

# FAKRA Series

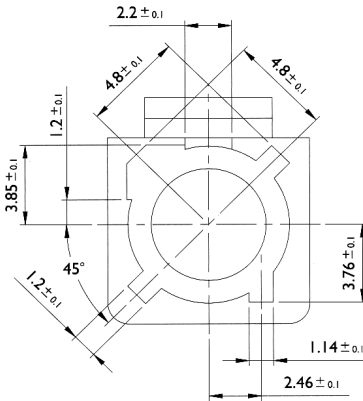
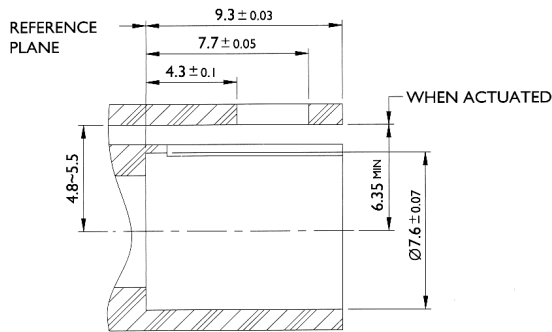
To cope with growth demands in telematics and multimedia applications or modern automobile, Automotive industries created a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards.

Based on SMB interface, FAKRA connectors include a plastic housing and are designed with multiple colored codes for easy identification.

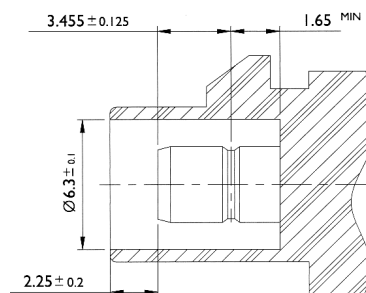
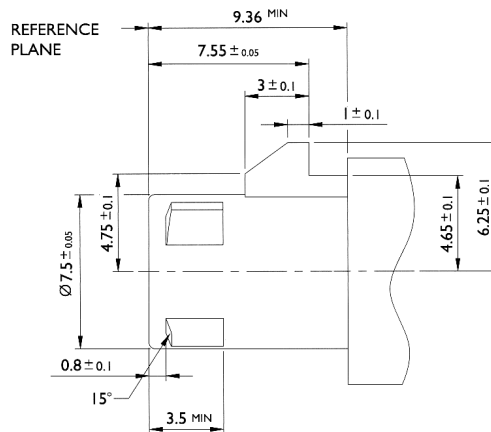
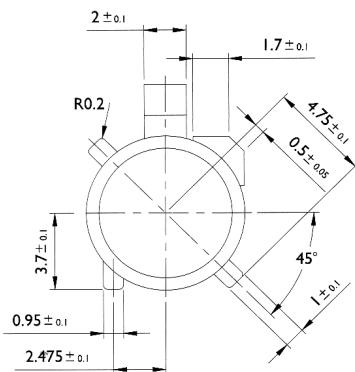
FAKRA connectors are designed to operate up to 4GHz and for applications of particular mechanical and environmental requirements of the automobile industry such as Digital Satellite Radio (SDARS), GSM, GPS.

## Interface Mating Dimensions

PLUG



JACK



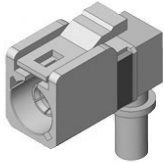
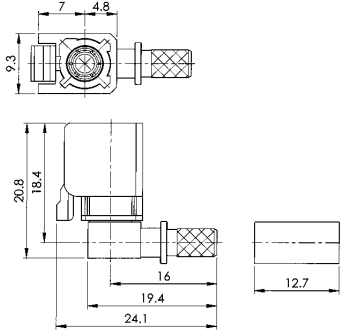
## Specifications

Electrical		
Impedance	50 ohm	
Frequency Range	0-4GHz	
Working Voltage	RG-178	: 250 VRMS Max.
	RG-316, RG085	: 335 VRMS Max.
Dielectric Withstanding Voltage	RG-178	: 750 VRMS Min.
	RG-316, RG085	: 1000 VRMS Min.
V.S.W.R	Straight	1.3 Max.
	Right Angle	1.5 Max.
Contact Resistance	Center Contact	20 Milliohms Max.
	Outer Contact	10 Milliohms Max.
Insulator Resistance	1000 Megohms Min.	

Material		
Parts Name	Material	Finish
Plastic Housing	PA66 w / 15% Glass Fiber	See Coding Color
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center Contact	Male : Brass per QQ-B-626	Gold 30 micro-inches
	Female : Beryllium Copper per QQ-C-530	Gold 30 micro-inches
Insulator	Teflon	None
Crimp Ferrule	Annealed Brass	Nickel 70 micro-inches

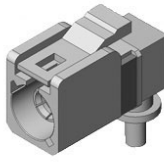
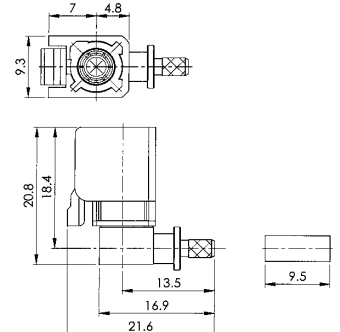
Mechanical & Environmental	
Engagement Force	25N.Max.
Disengagement Force	2N.Min.
Contact Retention	4 lbs. Min.
Durability(Mating)	25 cycles Min.
Temperature Range	-40°C to 105°C
Vibration	MIL-STD-202 Method 204 Test Cond.B.
Salt Spray	MIL-STD-202 Method 101 Test Cond.B.
Thermal Shock	MIL-STD-202 Method 107 Test Cond.B.

**RIGHT ANGLE PLUG CRIMP**


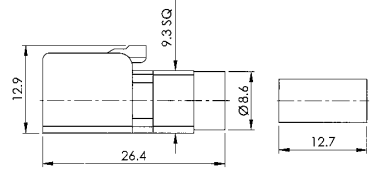
Model No.	Model Name	Cables
D-C25-001	FAKRA-LP-58/U	RG58/U RG58C/U
D-C25-002	FAKRA-LP-142A/U	RG142A/U, RG223/U RG400/U

**RIGHT ANGLE PLUG CRIMP**


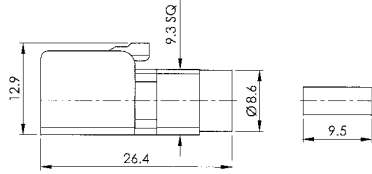
Model No.	Model Name	Cables
D-C25-003	FAKRA-LP-174/U	RG174/U, RG188A/U RG316/U
D-C25-004	FAKRA-LP-316/U	RG316 Double Braid
D-C25-005	FAKRA-LP-178B/U	RG178B/U RG196A/U

**STRAIGHT PLUG CRIMP**

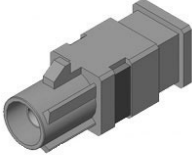
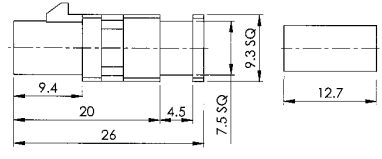
Model No.	Model Name	Cables
D-C25-006	FAKRA-P-58/U	RG58/U RG58C/U
D-C25-007	FAKRA-P-142A/U	RG142A/U, RG223/U RG400/U

**STRAIGHT PLUG CRIMP**

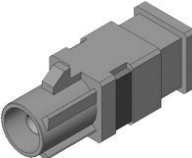
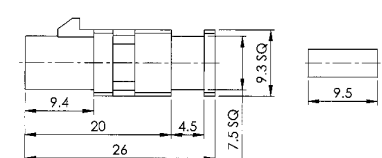
Model No.	Model Name	Cables
D-C25-008	FAKRA-P-174/U	RG174/U, RG188A/U RG316/U
D-C25-009	FAKRA-P-316/U	RG316 Double Braid
D-C25-010	FAKRA-P-178B/U	RG178B/U RG196A/U

**STRAIGHT JACK CRIMP**

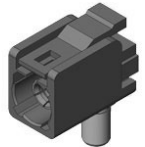
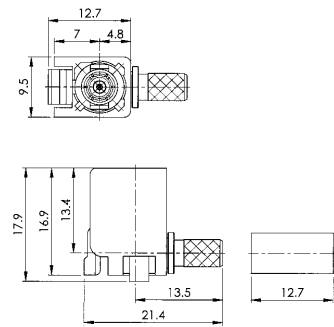
Model No.	Model Name	Cables
D-C25-011	FAKRA-J-58/U	RG58/U RG58C/U
D-C25-012	FAKRA-J-142A/U	RG142A/U, RG223/U RG400/U

**STRAIGHT JACK CRIMP**


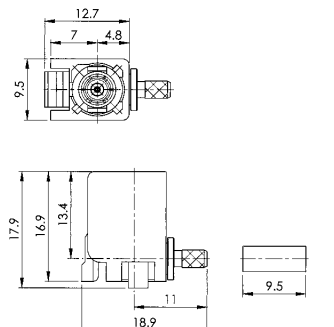
Model No.	Model Name	Cables
D-C25-013	FAKRA-J-174/U	RG174/U, RG188A/U RG316/U
D-C25-014	FAKRA-J-316/U	RG316 Double Braid
D-C25-015	FAKRA-J-178B/U	RG178B/U RG196A/U

**RIGHT ANGLE PLUG CRIMP**

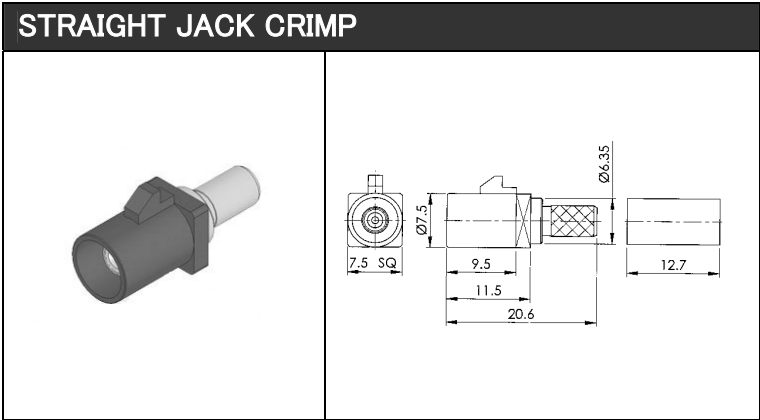



Model No.	Model Name	Cables
D-C25-016	FAKRA-LP-58/U	RG58/U RG58C/U
D-C25-017	FAKRA-LP-142A/U	RG142A/U, RG223/U RG400/U

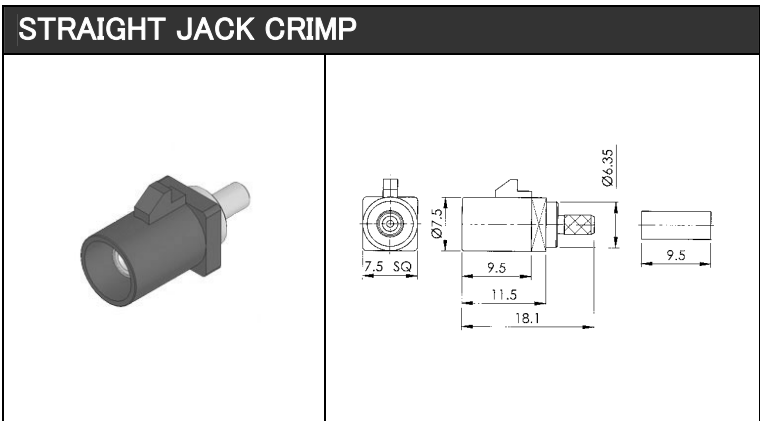
**RIGHT ANGLE PLUG CRIMP**

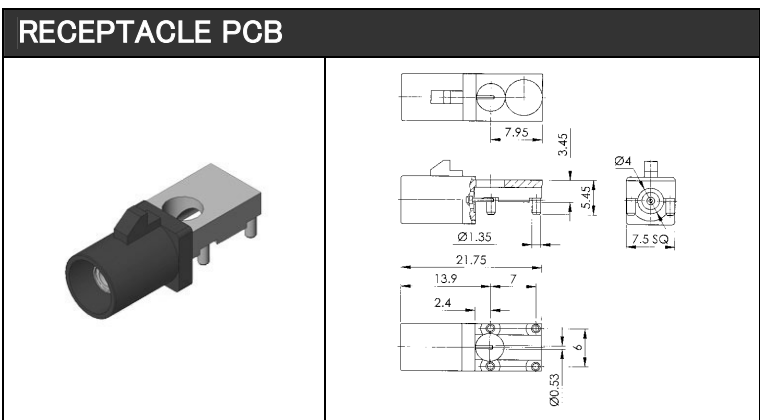
Model No.	Model Name	Cables
D-C25-018	FAKRA-LP-174/U	RG174/U, RG188A/U RG316/U
D-C25-019	FAKRA-LP-316/U	RG316 Double Braid
D-C25-020	FAKRA-LP-178B/U	RG178B/U RG196A/U



Model No.	Model Name	Cables
D-C25-021	FAKRA-J-58/U	RG58/U RG58C/U
D-C25-022	FAKRA-J-142A/U	RG142A/U, RG223/U RG400/U

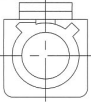


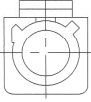


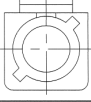





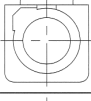


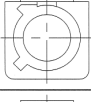


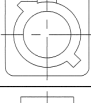
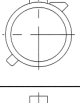


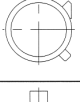

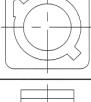
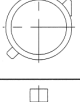

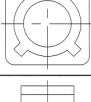
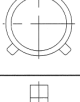

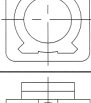
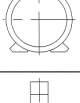

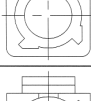
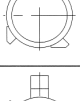

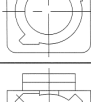
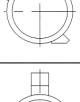

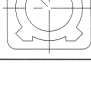
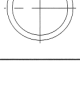



Model No.	Model Name	Cables
D-C25-023	FAKRA-J-174/U	RG174/U, RG188A/U RG316/U
D-C25-024	FAKRA-J-316/U	RG316 Double Braid
D-C25-025	FAKRA-J-178B/U	RG178B/U RG196A/U



Model No.	Model Name	Cables
D-C25-026	FAKRA-R-PCB	N/A

# Coding

Code	PLUG	JACK	Colour similar to RAL no.	Possible applications
A			 Black 9005	Radio without phantom supply
B			 Cream white 9001	Radio with phantom supply
C			 Blue 5005	GPS
D			 Bordeaux 4004	GSM cellular phone
E			 Green 6002	TV1 / SDARS
F			 Brown 8011	TV2 / SDARS
G			 Grey 7031	Remote control keyless entry
H			 Violet 4003	GPS for telematics and navigation
I			 Beige 1001	Remote control parking heating
K			 Curry 1027	Radio with IF
L			 Carmine red 3002	Not defined
M			 Pastel orange 2003	Not defined
N			 Pastel green 6019	Not defined
Z			 Water blue 5021	Neutral coding