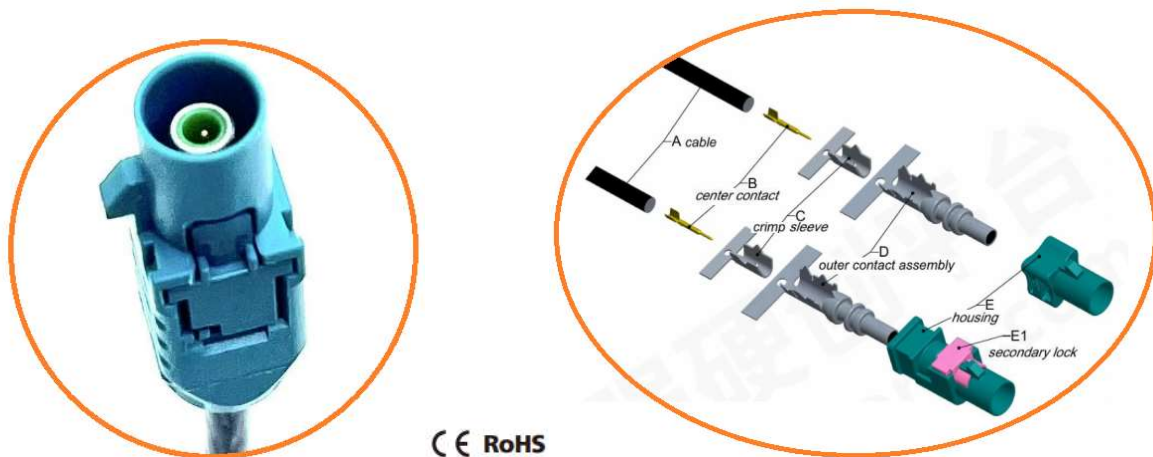


FAKRA Male Connector Cable Assembly, (A Coding to Z Coding)

Product Description

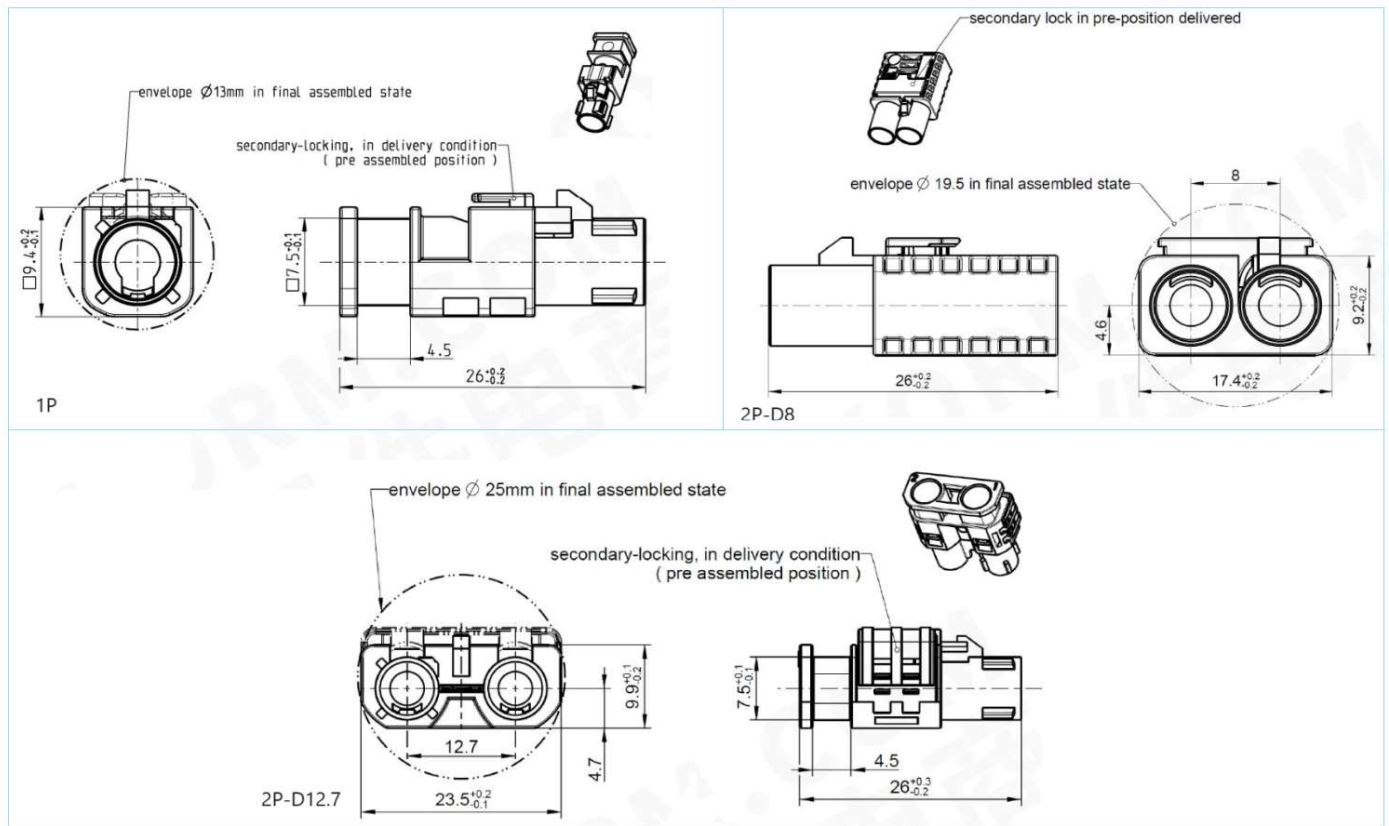
FAKRA (Automated Expert Group) to establish a unified connector system and standards that everyone will follow. Due to its special standard locking system, FAKRA connectors meet the high performance and safety requirements of today's automotive industry.



◆ General Information of Cable Assembly

Feature/Speed	-Primary and secondary locking systems for increased assembly security -13 mechanical and colored coding with one neutral coding, refer to FAKRA coding on next page -20 Gbps of data speed for the connected vehicle, supporting any modern radar, camera, lidar or sensor applications
Rated Current	1A Max
Insulation Resistance	$\geq 100\text{M}\Omega$
Contact Resistance	$\leq 5\Omega$
Operation Temperature	$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
Poles	1,2 Poles are available (Refer to SKU table)
Cable	RG 174, RTK 031, RG59, RG179, RG58/62 etc. (50, 61,75, 93,120 Ohm) options
Retention Force Latch	$\geq 110\text{ N}$
Retention Force Lock	$\geq 80\text{N}$ (Primary) $\geq 60\text{N}$ (Secondary)
Compliant to Standard	Per ISO20860-1 and -2, USCAR17 and 18
Water Resistance Level	No/IPX7/IPX9K in locked condition options
Application	Driving modules, Camera, Antenna, GPS, Gateway/Switch modules, 4K displays, High-speed cable networking, Sensor-device connectivity, surround view cameras, Infotainment devices

◆ Dimensions of Related Components (Unit is mm)



Housing Plug,

Single

Product



Double 8 mm

Product



Double 12.7 mm

Product



◆ General Information of Connector

Frequency Range:	DC-6GHz	Insulation Resistance:	1000M Ω min.
Working Voltage:	335V max.	Impedance:	50 Ω Max.
Center Contact Resistance:	20m Ω max.	Return Loss:	≥ 18 dB
Dielectric Withstanding Voltage:	1000V min.	IP Rating:	IPX7/IPX9K in locked condition (options)
Temperature Range:	-40 $^{\circ}\text{C}$ to +105 $^{\circ}\text{C}$	Housing/Center contact:	PBT, PA/CuZn, CuBe, CuSn
V.S.W.R(电压驻波比):	1.3 Max.	Mating Endurance:	≥ 25 Cycles
High Data Rates:	Up to 8Gbps		

FAKRA Coding (A-Z)

Coding		Jack		Plug		Color / RAL-No. (Similar)
		Single	Double	Single	Double	
A	Radio without phantom supply					Black/ 9005
B	Radio with phantom supply					White/ 9001
C	GPS: telematics or navigation					Blue/ 5005
D	GSM Cellular phone					Bordeaux/ 4004
E	TV1					Green/ 6002
F	TV2					Brown/ 8011
G	Remote control keyless entry					Grey/ 7031
H	GPS: telematics and navigation					Violet/ 4003
I	Radio controlled parking heating					Beige/ 1001
K	Radio with IF					Curry/ 1027
L	Not defined					Camine red/ 3002
M	Not defined					Pastel orange/ 2003
N	Not defined					Pastel green/ 6019
Z	Neutral coding					Waterblue/ 5021

◆ SKU Table

SKU No.	Poles	Conn. Type	Type	Remark
T-FAKRASTM-01-Coding A-Z	1	Male	Straight	Coding A-Z
T-FAKRASTM-02-D8-Coding A-Z	2	Male	Straight	Double 8mm type, Coding A-Z
T-FAKRASTM-02-D12.7-Coding A-Z	2	Male	Straight	Double 12.7mm type, Coding A-Z

Notes: Coding A-Z color

- A Black
- B White
- C Blue
- D Bordeaux violet
- E Green
- F Brown
- G Grey
- H Violet
- I Beige
- K Curry
- L Carmin red
- M Pastel orange
- N Pastel green
- Z Water blue