



Mini Fakra Product introduction



用我们的努力，保证客户的成功

ENSURE THE SUCCESS OF CUSTOMERS WITH OUR EFFORTS

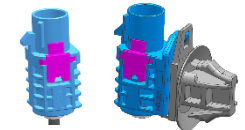
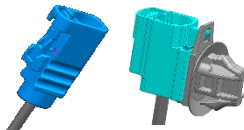
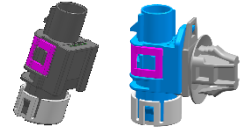
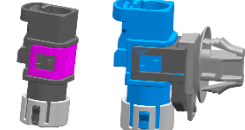
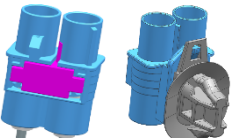
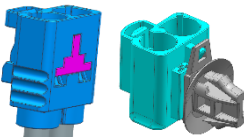
Fakra Specification

FEATURE & PERFORMANCE

- Impedance 50 Ω
- Frequency range DC up to 6 GHz
- Mating cycles up to 25
- PCB connector and cable, modular housing cable assemblies
- Primary and Secondary lock
- Crimp connection
- Waterproof and CPA version available.
- 13 mechanical and colored codings and one neutral coding

Application:

- Radio antenna
- GPS telematics or navigation
- Infotainment & television
- Mobile communication
- RF bluetooth / WLAN applications
- Radio frequency remote control for keyless entry
- Vehicle auxiliary heating
- Sensors for detection, evaluation and reaction

Position	None Water proof		Water proof	
	Female	male	Female	male
1				
2				

1.interface:

- According to: Rosenberger

2.Electrical data:

- Impedance: 50Ω
- Frequency:DC to 6 GHz
- Return loss: $\geq 18\text{dB}$
- Insertion loss: $\leq 0.1 \times f(\text{GHz})\text{dB}$
- Insulation resistance: $\geq 1 \times 1 \text{ GW}$ Center
- contact resistance: $\leq 5\text{m}\Omega$
- Outer contact resistance: $\leq 5\text{m}\Omega$
- Test voltage:750 V DC
- Contact current: $\leq 4\text{A DC}$
- Working voltage: 60V DC





























3.Mechanical data:

- Mating cycles : ≥ 25 (standard), ≥ 5 (waterproof)
- Engagement force : $\leq 25 \text{ N}$
- Disengagement force: $\geq 2\text{N}$
- Retention force latch: $\geq 110 \text{ N}$
- Torsion strength: $\geq 110 \text{ Ncm}$
- Coding efficiency: $\geq 40 \text{ N}$

4.Environmental data :

- Temperature range:-40° C to +105°
- Thermal shock: DIN EN 60068-2-14 Na
- Temperature and humidity: DIN EN 60068-2-30 variante 2
- Vibration: DIN EN 60068-2-64
- Mechanical shock: DIN EN 60068-2-27

Mini Fakra Coding

Coding	Jack		Plug		Color/ RAL- Nr.
	Single	Double	Single	Double	
A Radio without phantom supply/ Radio ohne Speisespannung					Black/ 9005
B Radio with phantom supply/ Radio mit Speisespannung					White/ 9001
C GPS: telematics or navigation/ GPS: Telematik oder Navigation					Blue/ 5005
D GSM Cellular phone/ GSM Mobiltelefon					Bordeaux/ 4004
E TV1					Green/ 6002
F TV2					Brown/ 8011
G Remote control keyless entry/ Funkfernbedienung ZV (Kessy)					Grey/ 7031
H GPS: telematics and navigation/ GPS: Telematik und Navigation					Violet/ 4003
I Radio controlled parking heating/ Funkfernbedienung Standheizung (SHA)					Beige/ 1001
K Radio with IF/ Radio mit ZF-Ausgang (Antennendiversity)					Curry/ 1027
L Not defined Nicht definiert					Carmine Red/ 3002
M Not defined Nicht definiert					Pastel Orange/ 2003
N Not defined Nicht definiert					Pastel Green/ 6019
Z Neutral coding/ Nullkodierung					Waterblue/ 5021