

## 2812X SERIES. Fakra Connectors.

To cope with growth demands in telematic and multimedia applications for 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.

### Electrical Features

- Impedance: 50 ohm.
- Working Voltage: RG-178 250 VRMS max.  
RG-316 335 VRMS max.
- Dielectric Withstanding Voltage: RG-178 750 VRMS min.  
RG-316 1000 VRMS min.
- VSWR: Straight 1,30 max. / Right angle 1,50 max.
- Contact resist.: Center cont. 20 mΩ / Outer cont. 10 mΩ
- Insulator resistance: 1000 MΩ

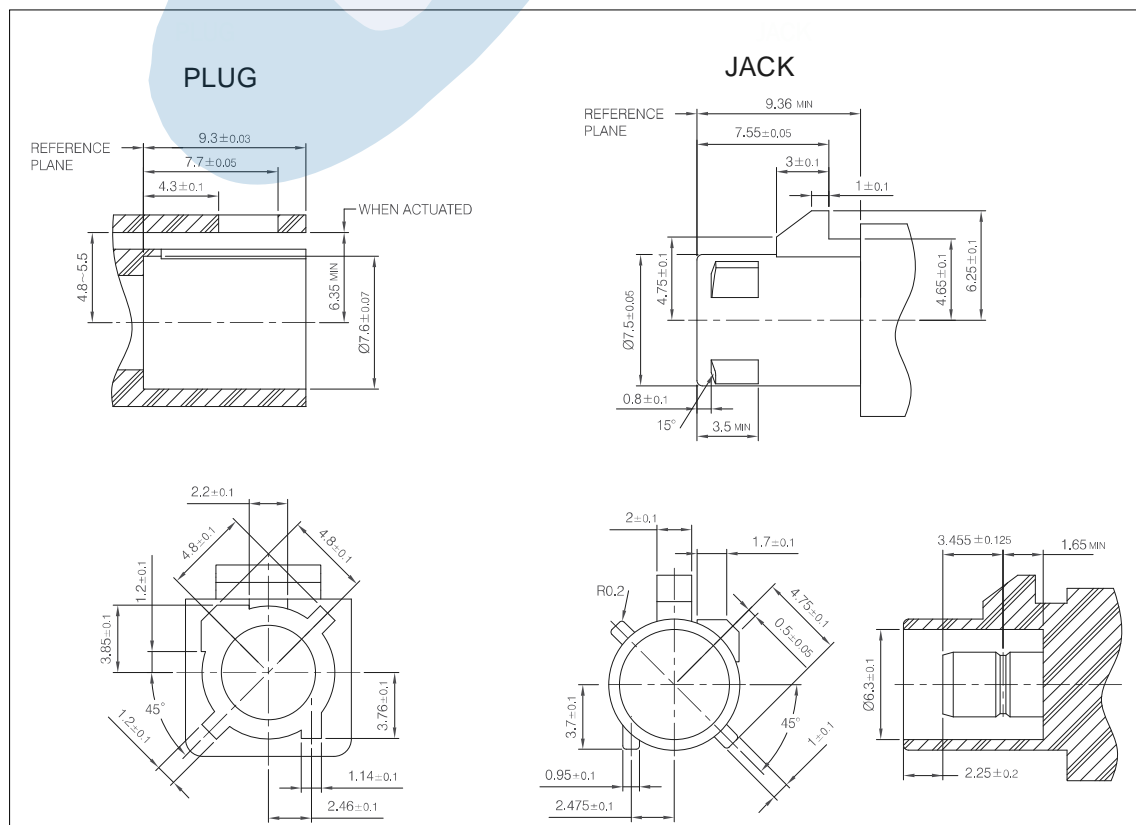
### Material Features

- Plastic housing: PA66 + 30% GF
- Body, Metal parts: Brass nicked
- Center contact: Male Brass / Female Beryllium cooper
- Dielectric withstanding voltage: 500 V AC/minute
- Insulator: Teflon
- Crimp Ferrules: Annealed brass
- RoHS compliant

### Mecanical Features

- Engagement Force: 2,5 Kgf max.
- Disengagement Force: 0,20 Kgf min.
- Contact retention: 1.80 Kgf min.
- Temperature range: -40°C to +105°C
- Durability: 500 cycles

### Dimensional Information





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Keys and colour available

Code	PLUG	JACK	Colour similar to RAL no.	Possible applications
A			Black 9005	Radio without phantom supply
B			Cream whith 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

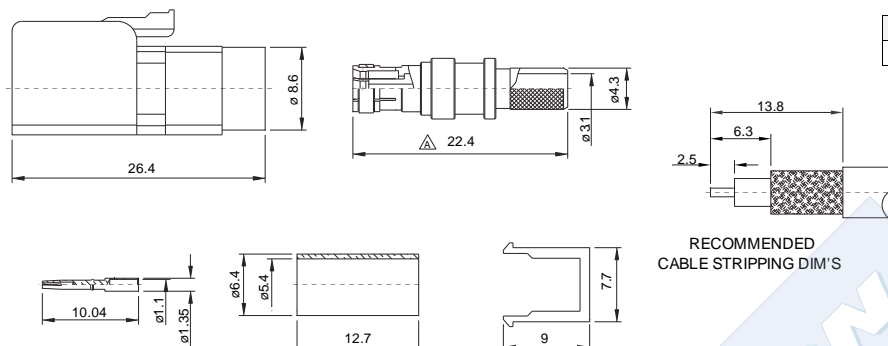


# FAKRA CONNECTORS



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### FAKRA CRIMP PLUG

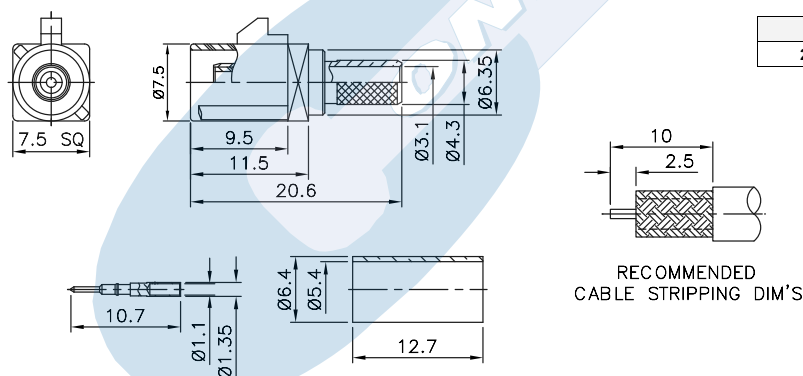


Part Number	$\Omega$	Cable
2812X*-01501	50	RG-58

X\*= Keys and color options

RECOMMENDED  
CABLE STRIPPING DIM'S

### FAKRA CRIMP JACK

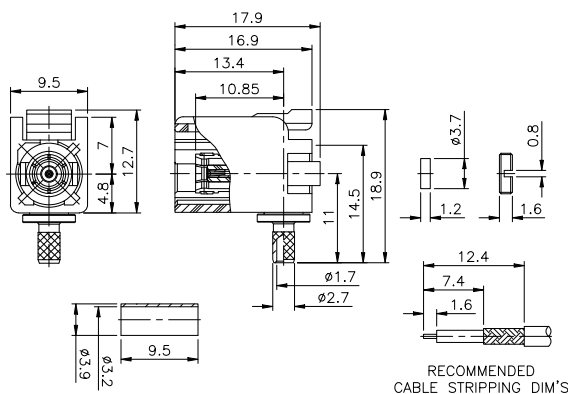


Part Number	$\Omega$	Cable
2812X*-01502	50	RG-58

X\*= Keys and color options

RECOMMENDED  
CABLE STRIPPING DIM'S

### FAKRA RIGHT ANGLE CRIMP PLUG



Part Number	$\Omega$	Cable
2812X*-23503	50	RG174, 188, 316

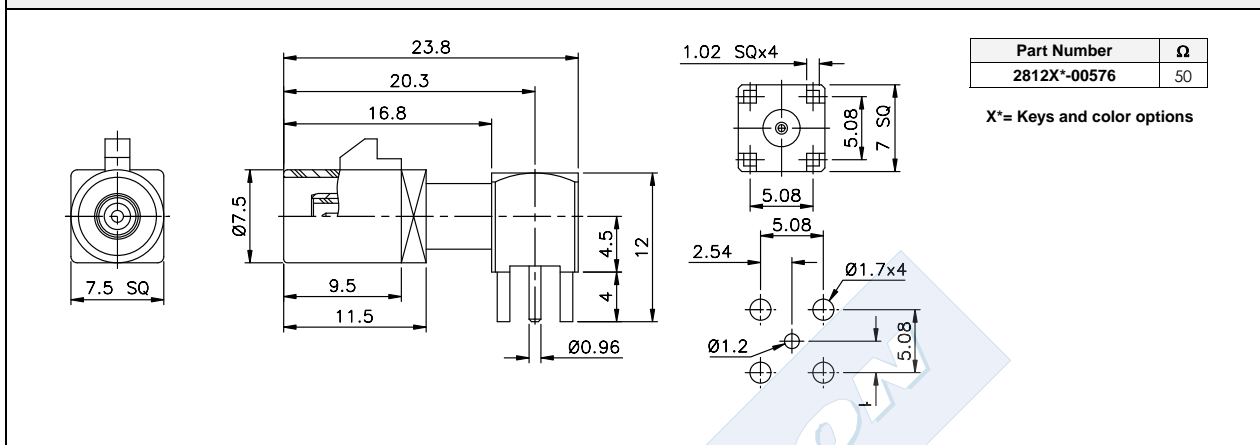
X\*= Keys and color options

RECOMMENDED  
CABLE STRIPPING DIM'S

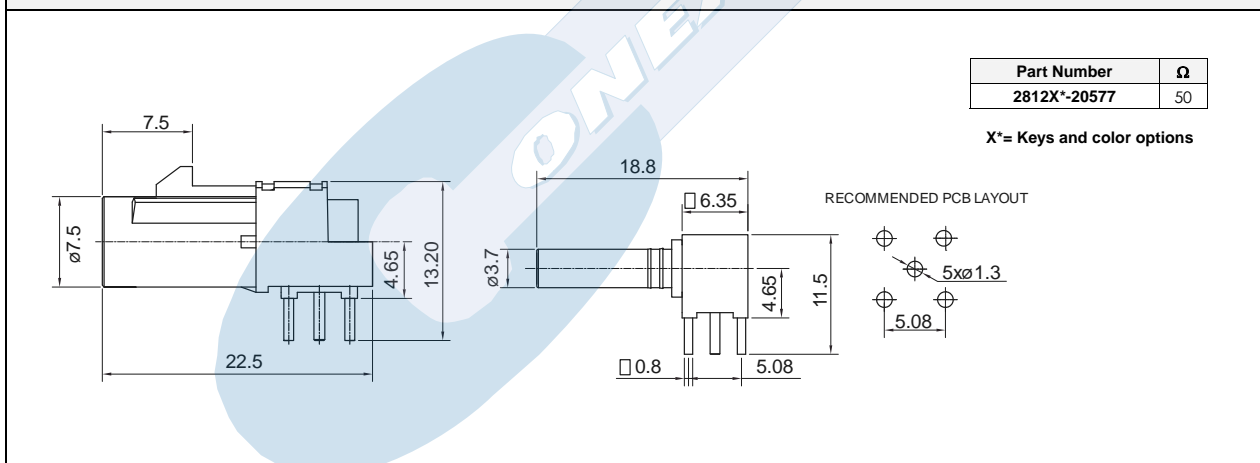


## 2812X SERIES. Fakra Connectors.

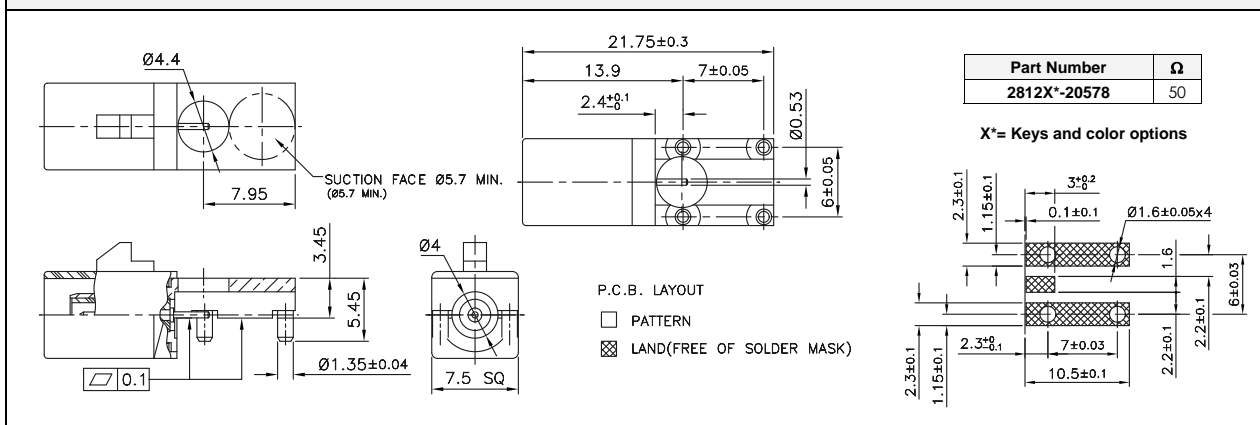
### FAKRA RIGHT ANGLE PCB MOUNT JACK



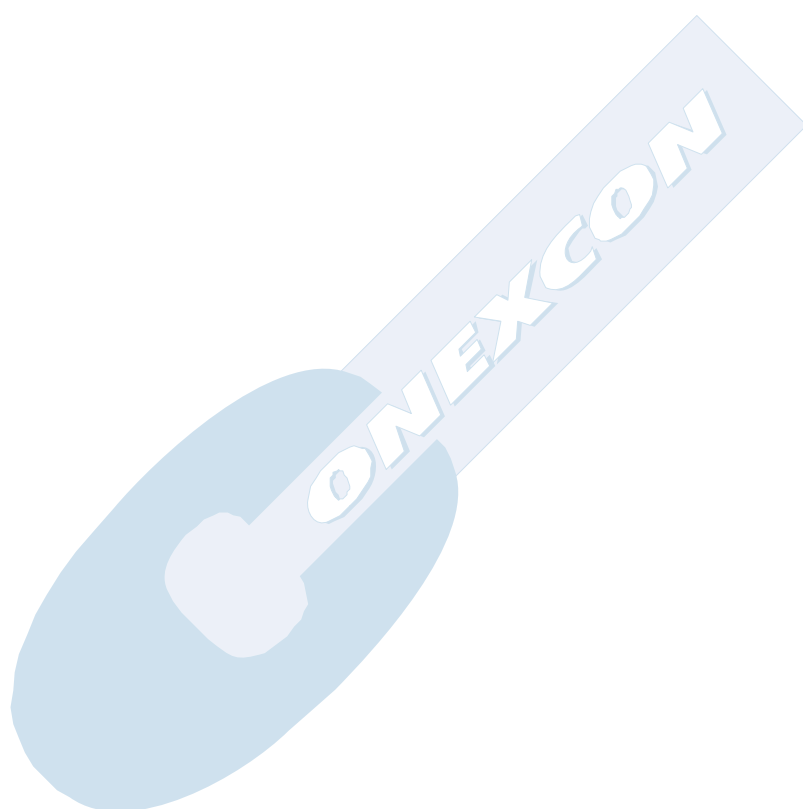
### FAKRA SMB RIGHT ANGLE PCB SOLDER



### FAKRA SMT RIGHT ANGLE PCB SOLDER







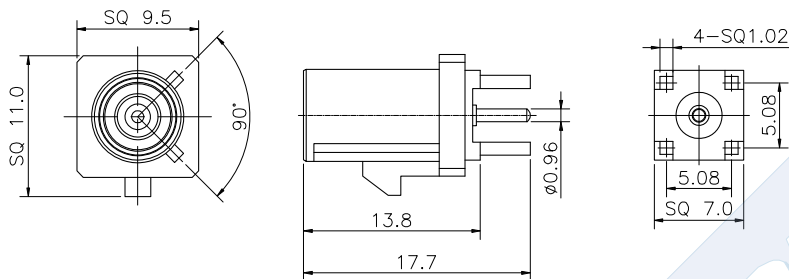


# FAKRA CONNECTORS



## 2812X SERIES. Fakra Connectors.

### FAKRA STRAIGHT PLUG PCB MOUNT



Part Number	Ω
2812X*-00570	50

X\* = Keys and color options