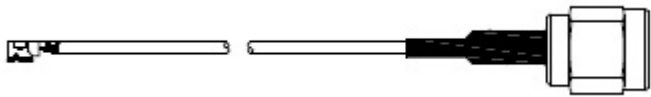
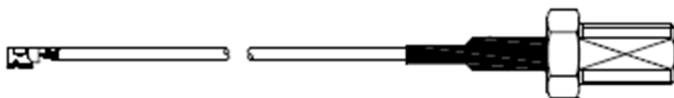
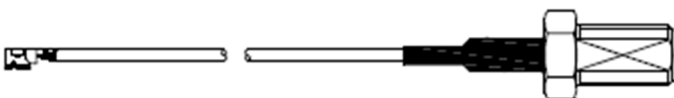
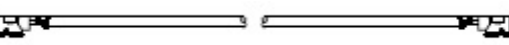
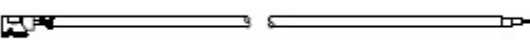


Ultra-Small Cable Assembly

MINI COAX-0.81mm IPEX-MHF4 (20448) STANDARD SMA (6GHz)

PART NUMBER	DESCRIPTION	OUTLINE
412280.081.XX	MHF 20448-001R To SMA Male, 0.81mm White/L: XX cm	
412296.081.XX	MHF 20448-001R To SMA Female BH, 0.81mm White/L: XX cm	
412299.081.XX	MHF 20448-001R To SMA Female Reverse BH, 0.81mm White/L: XX cm	
412412.081.XX	MHF 20448-001R To 20448-001R, 0.81mm White/L: XX cm	
412SABC.081.XX	MHF 20448-001R To Stripped, 0.81mm White/L: XX cm	

ABC: stripped size ; XX: length (cm)

*Definition of Length: " XX "

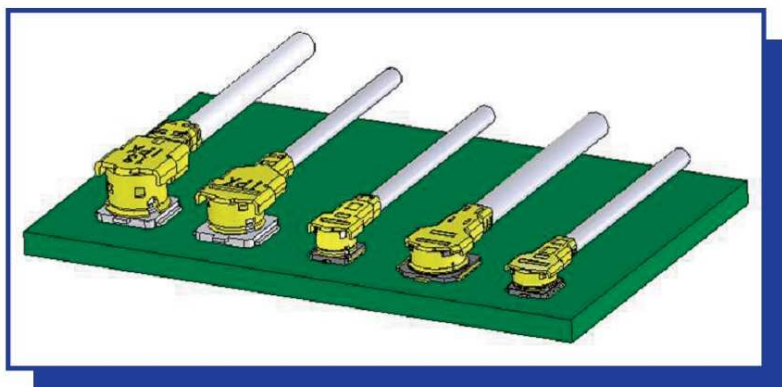
When total cable length ≤ 30 CM, the length cable is referring to exclude two terminal length of connector.
When total cable length > 30 CM, the length cable is referring to include two terminal length of connector.

**Definition of Tolerance

Length ≤ 10 cm: ± 0.5 cm , Length ≤ 30 cm: ± 1.0 cm , Length ≤ 50 cm: ± 2.0 cm ,
Length ≤ 100 cm: ± 2.5 cm , Length > 101 cm: ± 3.0 cm

Optional Code	A	Brass Tubing (Glued Heat Shrinkable Tube) / $\varnothing 7.5$ mm x 20mm
VSWR of Cable Assembly	1.4:1 MAX.(DC-3GHz), 1.5:1 MAX.(3-6GHz)	
Estimate of Cable Assembly loss	Cable assembly loss =Connector loss + Assembly loss + Cable loss Connector Loss: $0.08 \times \sqrt{\text{Frequency}} \times 2$ (2 connectors) Assembly Loss : $0.12 \times 2(\text{sides})$ Cable Loss: per cable attenuation (Max.) * Cable length	

MHF SERIES MICRO COAXIAL CONNECTOR



【Major Application】

- Wireless LAN Antenna
- Cellular Phone
- Note Book Computer
- Game Equipment
- Digital Appliance
- Access Point

【Key Features】

- SMT Receptacle and Mating Plug Cable Connector
- Small form factor and low profile : 1.2mm to 2.5mm MAX. Mating Height
- Applicable Cable :
O.D.0.64mm / 0.81mm / 0.98mm / 1.13mm / 1.32mm / 1.37mm and 1.8mm Coaxial Cable
- High productivity : Easy Cable termination by “i-Fit®” without soldering
- Applicable Technology :
IEEE802.11 a/b/g/n, UWB, WiMAX, iBurst, Zigbee, Bluetooth Wireless and MIMO

【Specifications】

- Frequency Range : DC up to 6GHz (V.S.W.R. : 1.3MAX at 0.1~3GHz, 1.4MAX at 3~6GHz)
- Characteristic Impedance : 50 ohm (Nominal)
- Temperature : -40°C to +90°C
- Rated Voltage : AC 60V
- Contact Resistance : 20m ohm MAX. (Signal) and 10m ohm MAX. (Ground)
- Withstand Voltage : AC 200V
- Insulation Resistance : 500M ohm MIN. / DC 100V

【Product Overview】

MHF type Plating (Center/ Ground)	MHF Receptacle				MHF III Receptacle		MHF-A Receptacle		MHF 4 Receptacle		
	MHF Plug		MHF II Plug		MHF III Plug		MHF-A13 Plug		MHF 4 Plug	MHF 4 SMT Plug	
Mating Height	2.5mm (MAX.)		2.1mm (MAX.)		1.6mm (MAX.)		1.45mm (MAX.)		1.2mm (MAX.)	1.2mm (MAX.)	
Gold / Gold	20279-001E-01 (3pads) 20441-001E-01 (4pads)	20278-1*2R-**	20351-1*2R-37	20311-011R-08	20369-001E	20367-001R	20429-001E	20428-001R	20407-001E	20448-001R-081	20462-001E
Gold / Silver	20314-001E-01 (3pads)	20308-1*2R-13 20308-1*2R-32	NA	20312-011R-08 20312-011R-10	NA	NA	NA	NA	NA	NA	NA

◆All Center contact are Gold Plated

COAXIAL CABLE

0.81mm (White)

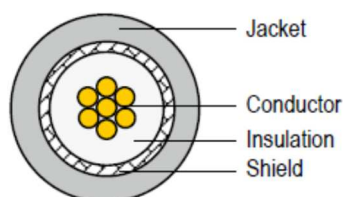
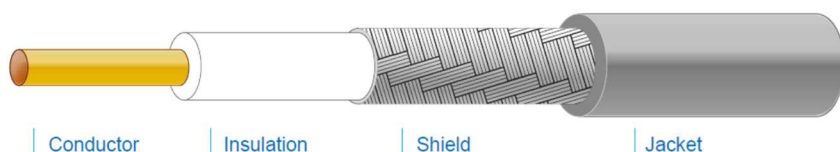
MCBL-081.50

- ✓ Frequency up to 6GHz
- ✓ Low signal attenuation
- ✓ Convenient assembly



Specifications

CONSTRUCTION		
ITEM	MATERIAL	DIAMETER
CONDUCTOR	Silver-Coated Copper	0.15 mm
INSULATION	FEP	0.40 ± 0.01 mm
BRAID COPPER	Tinned-Coated Copper	0.65 ± 0.02mm
JACKET	FEP(WHITE)	0.81 ± 0.03 mm
ELECTRICAL DATA		
ITEM	SPECIFICATION	
IMPEDANCE	50±3 Ohm	
CONDUCTOR RESISTANCE	1394 Ohms/Km at 20°C (max.)	
INSULATION RESISTANCE	1000 MEGA OHM/KM MIN	
DIELECTRIC STRENGTH	AC 1.0KV /Minute	
RATING OF TEMP./Voltage	+90°C / 30V	
OPERATING TEMP.	-40~+200°C	
NORMALLY CAPACITANCE	96 ±3 pF/m	
VELOCITY OF PROPAGATION	96%	
MAXIMUM ATTENUATION		
FREQUENCY	ATTENUATION (dB/M)	
900MHz	2.65	
1.8GHz	3.95	
2.4GHz	4.65	
5.2GHz	7.25	
6.0GHz	7.85	



NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

