

MICRO COAXIAL CONNECTOR

Applicable for

IEEE802.11a/b/g/n, UWB, WiMAX, Bluetooth, iBurst,
ZigBee and MIMO(Multiple Input and multiple output)

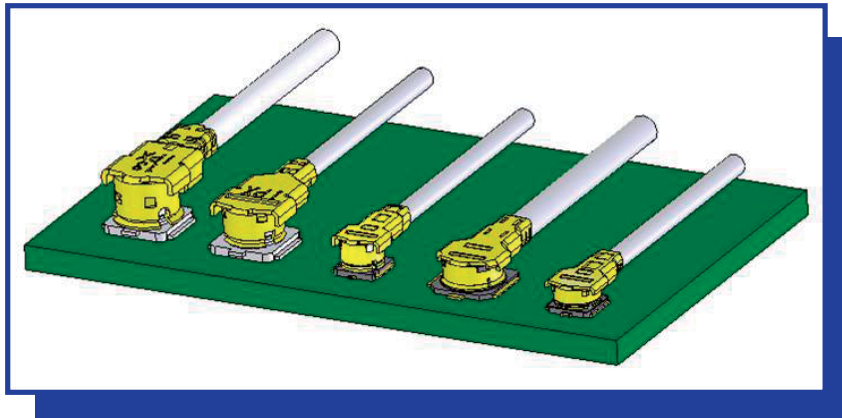
RoHS Compliance

Halogen - Free *1

MHF SERIES

Easy Cable termination by “i-Fit[®]” Technology

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

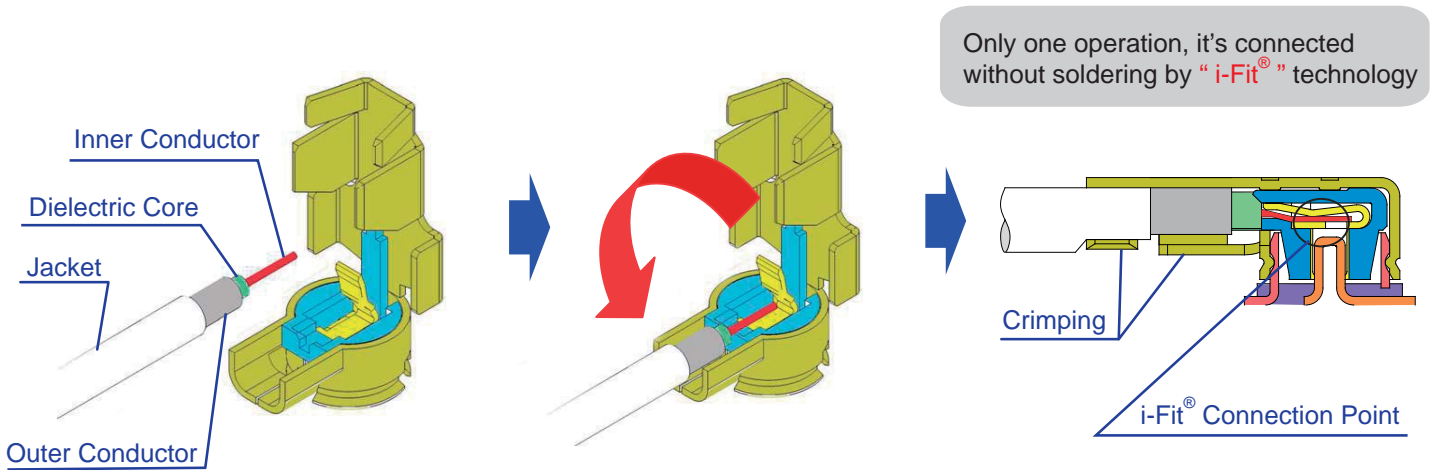
【Product Overview】

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	2027900E-01 (3pad) 2044400E-01 (4pad)	2027812R-**	2035412R-37	2031401R-08	2036900E	2036700R	2042900E	2042800R	2040700E	2044800R-08	2046200E
Gold/ Silver	2031400E-01 (3pad)	2030812R-13 2030812R-32	NA	2031201R-08 2031201R-10	NA	NA	NA	NA	NA	NA	NA

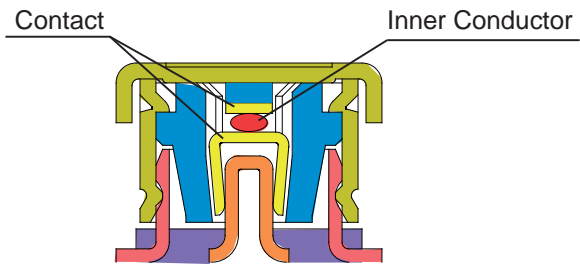
◆All Center contact are Gold Plated

Easy and Speedy Cable Connection of Center Conductor (i-Fit[®]) and Outer Conductor at **Only one operation** by our special assembling tool

< i-Fit[®] Connection mechanism >

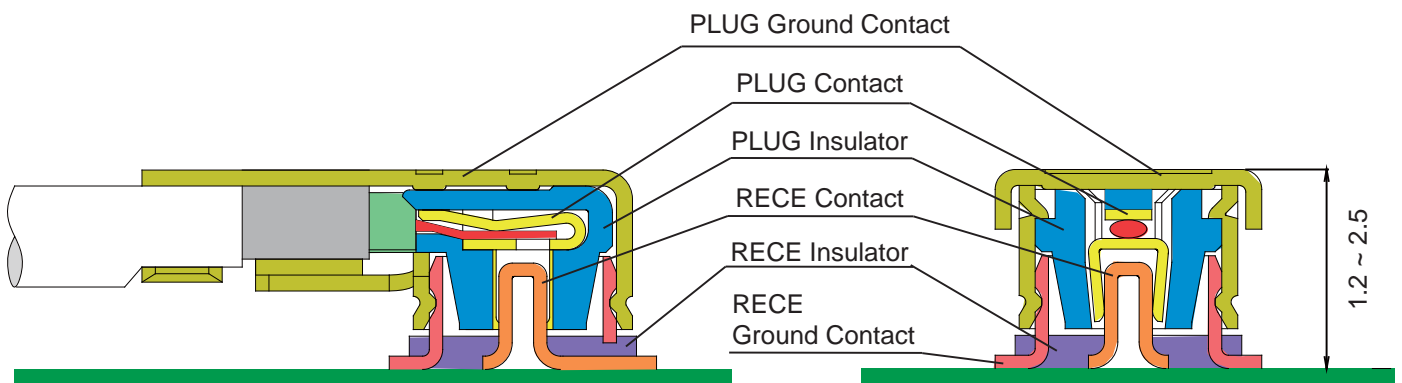


i-Fit[®] PATENT NO.
U.S.A. PAT.6,790,082
JAPAN PAT.4148339

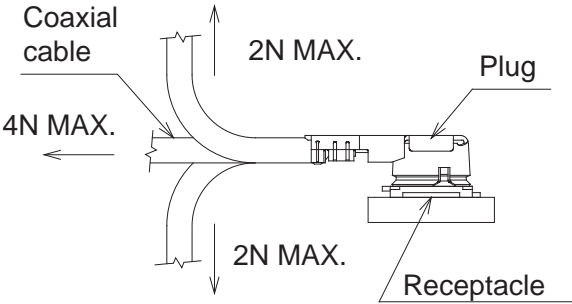
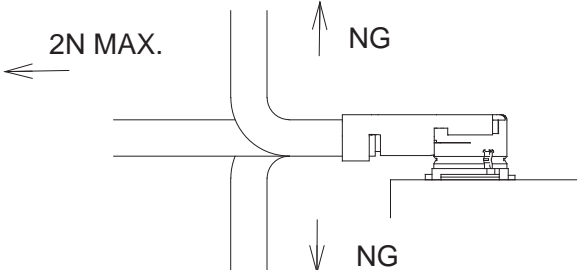


i-Fit[®] Cross-section

< Product Mechanism >



Permissible load of cable at mating

<p>MHF MHF II</p>	 <p>Coaxial cable</p> <p>4N MAX.</p> <p>2N MAX.</p> <p>2N MAX.</p> <p>Plug</p> <p>Receptacle</p>
<p>MHF III MHF-A13 MHF 4</p>	 <p>2N MAX.</p> <p>NG</p> <p>NG</p>

* 1..... [Halogen-Free]

For the definition of Halogen-free, I-PEX applies and judges as "halogen-free" in accordance with IEC 61249-2-21

- Br 900ppm Max.
- Cl 900ppm Max.
- TTL concentration [Br+Cl]1500ppm Max.