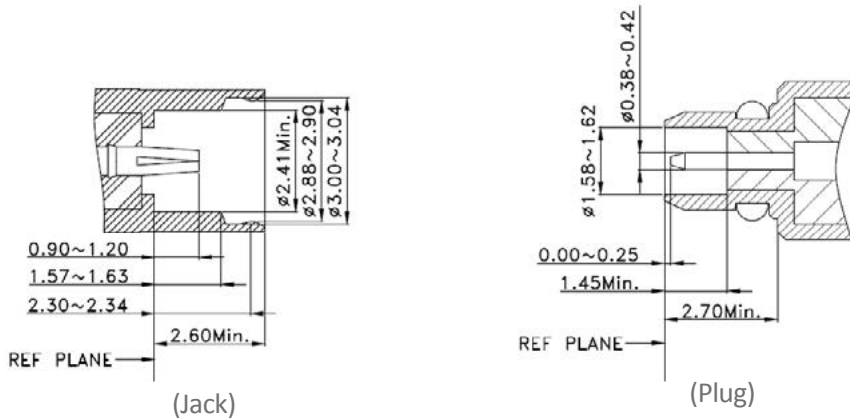


## ► Introduction

Gigalane **MMCX Connectors** are intended for use in applications where the smallest dimensions are required. These connectors operate up to 6 GHz and are optimum for wireless communication systems such as cellular, wireless and PCS. MMCX provides a low RF-leakage by its non-slotted outer contact.

## ► Interface Standards(CECC22220)

Unit : mm



## ► Specification

### Electrical

Frequency	DC to 6 GHz
Impedance	50 Ω
VSWR	1.2:1 @ 3 GHz, 1.43:1 @ 6 GHz
Insulation Resistance	1000 MΩ
Dielectric Withstand Voltage	250 Vrms max.
Contact Resistance - Outer Conductor - Inner Conductor	2.5 mm Ω max. 5 mm Ω max.
RF Leakage	> 60 dB @ 1 GHz

### Mechanical

Mating Cycle (Durability)	500
Engagement and Separation Force	Engagement : 1.8 kgf max. (18 N max.) Separation : 0.6 kgf to 1.8 kgf (6 N to 18 N)
Center Contact Retention Force	1.0 kgf (10 N) axial

### Environmental

Temperature	- 55°C to + 155°C
Thermal Shock	CECC22220 4.6.7
Corrosion (Salt Spray)	CECC22220 4.6.10
Vibration	CECC22220 4.6.3
Moisture Resistance	CECC22220 4.6.6

### Materials

Body	Brass / Becu	Gold Plated
Center Contact	Brass / Becu	Gold Plated
Insulator	PTFE	-

# MMCX Connectors

## ► JACK (Female)

Unit : mm [Inch]

PCB Mount	PCB Mount
<p>• <b>Part No.</b> PEF-S00-000 (G10SFB001) * PCB Pattern See Fig 10</p>	<p>• <b>Part No.</b> PEF-S01-000 (G10SFB002) * PCB Pattern See Fig 11</p>
PCB Edge Mount	Right Angle PCB Mount
<p>• <b>Part No.</b> PEF-S02-000 (G10SFB003) * PCB Pattern See Fig 13</p>	<p>• <b>Part No.</b> PEF-R00-000 (G10RFB001) * PCB Pattern See Fig 12</p>

## MMCX Connectors for Cable Assemblies

### ► For Semi-Rigid & Semi-Flexible Cable Assemblies

Unit : mm [Inch]

Straight PLUG	Right Angle PLUG
<p>• <b>Cable</b> • <b>Part No.</b> 047 EMS03 (G10SMC004) 085 EMS02 (G10SMC003)</p>	<p>• <b>Cable</b> • <b>Part No.</b> 047 EMR02 (G10RMC002) 085 EMR03 (G10RMC003)</p>

### ► For Flexible Cable Assemblies

Unit : mm [Inch]

Straight PLUG	Right Angle PLUG
<p>• <b>Cable</b> • <b>Part No.</b> RG178 EMS04 (G10SMC005) RG316 EMS01 (G10SMC002)</p>	<p>• <b>Cable</b> • <b>Part No.</b> RG178 EMR04 (G10RMC004) RG316 EMR01 (G10RMC001)</p>
Straight JACK	Bulkhead JACK
<p>• <b>Cable</b> • <b>Part No.</b> RG178 EFS01 (G10SFC001) RG316 EFS03 (G10SFC003)</p>	<p>• <b>Cable</b> • <b>Part No.</b> RG316 EFS02 (G10SFC002)</p>