

Junkosha
Enabling Technology Innovators

Junkosha 110GHz~ Coaxial Cable Assembly Line up

To select the right solutions and cables



Junkosha 1mm & 0.8mm cable line up

MWX001

MWX002

MWX004





MWX001

*Lowest IL up to 110GHz

Frequency: DC ~ 110GHz

VP: 79% VSWR: 1.43

IL @110GHz(L=100mm): without connector **1.18dB** / with connectors **1.86dB**

Cable length: 90mm(3.5") ~ 2,000mm(78.8")

Skew matching: within **1psec** between pair

Connector

1mm(male) Safety lock



1mm(female)



1mm(female) NMD





MWX002

Frequency: DC ~ 120GHz

VP: 79% VSWR: 1.43

IL @120GHz(L=100mm): without connector **1.45dB** / with connectors **2.16dB**

Cable length: 90mm(3.5") ~ 1,000mm(39.4")

Skew matching: within **1psec** between pair

Connector

1mm(male) Safety lock



1mm(male)



1mm(female)





MWX004

Frequency: DC ~ **130GHz** with 1mm, ~**145GHz** with 0.8mm

VP: **74%** VSWR: **1.5**

IL @130GHz(L=100mm): without connector **2.59dB** / with connectors **3.33dB**

IL @145GHz(L=100mm): without connector **2.81dB** / with connectors **3.59dB**

Cable length: 90mm(3.5") ~ 305mm(12")

Connector

1mm&0.8mm(male) Safety lock



1mm & 0.8mm(female)



1mm(female) NMD

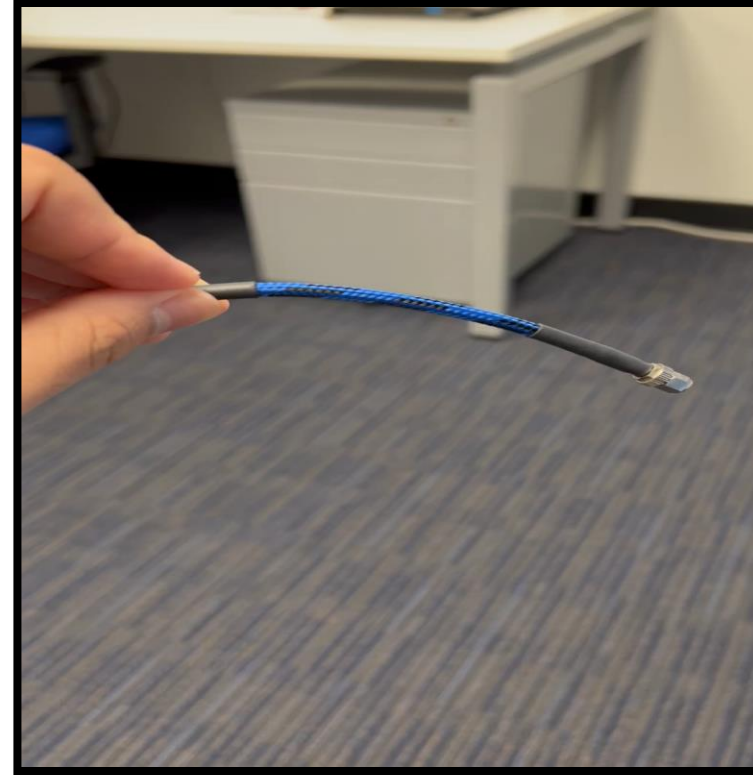
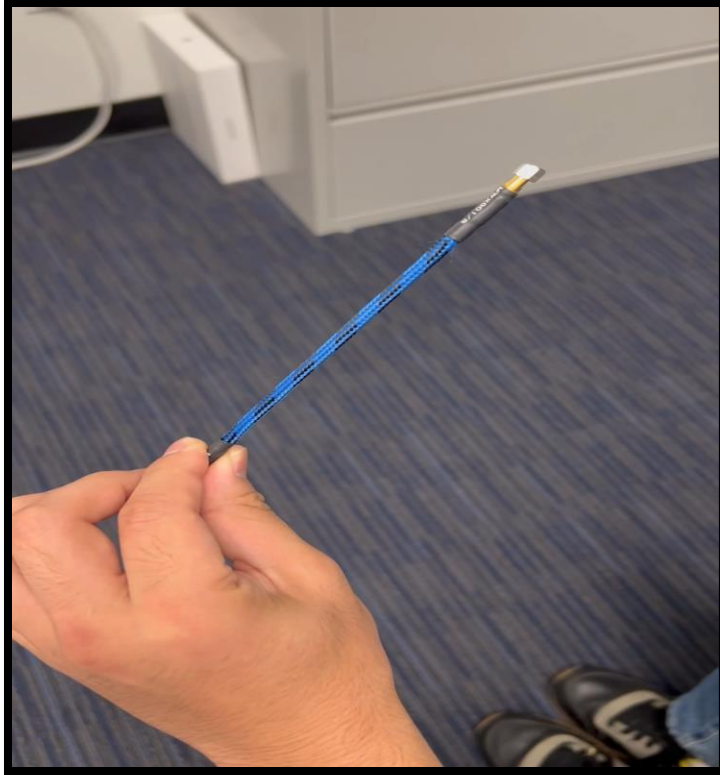




Armor type *You can choose either type

/B (Formable)

/A (Flexible)

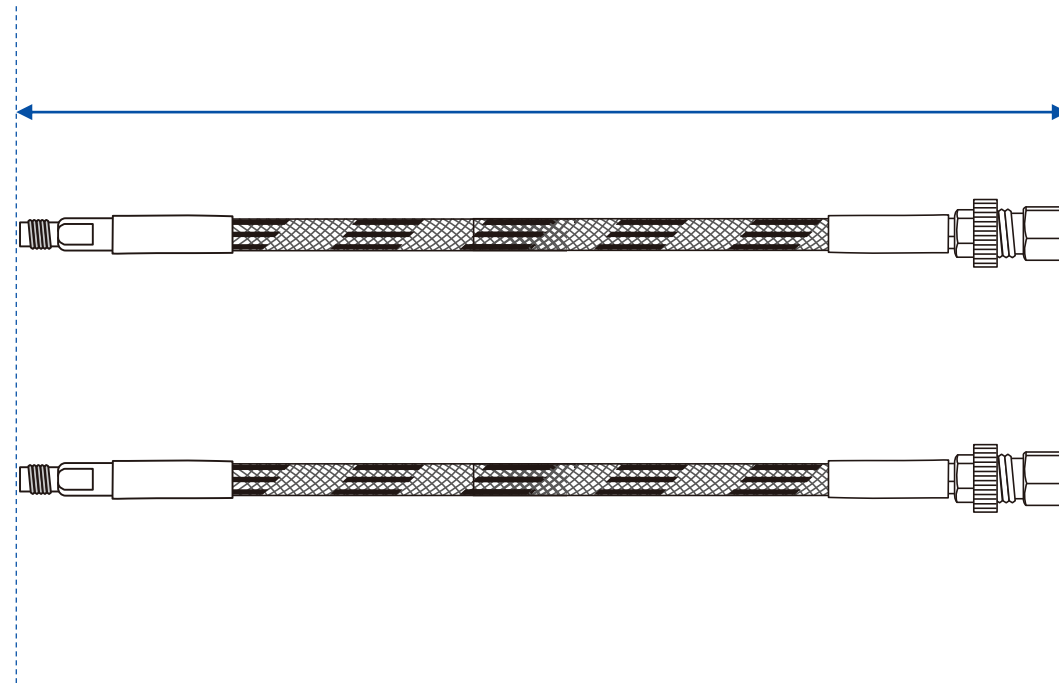


Both type has same core cable inside and just armor type difference.
Therefore, **the electric property between both types is same.**



Skew matching pair *MWX001 and MWX002

within **1pico** sec of electric length difference



For differential or digital signal integrity measurement such as USB, HDMI, evaluation or BERT, Jitter measurement.



Junkosha Safety Lock Connector

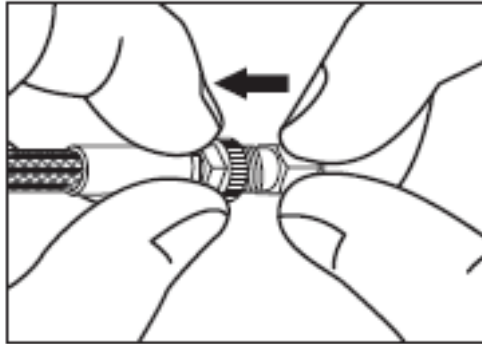


Behind Nut

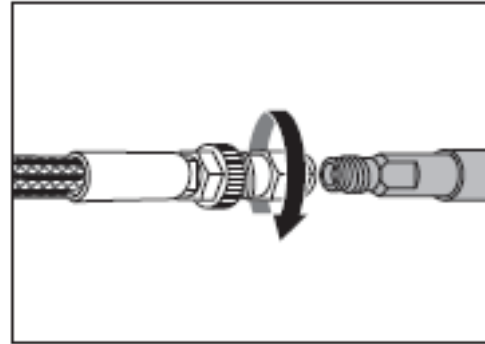
Grooved Ring

Coupling Nut

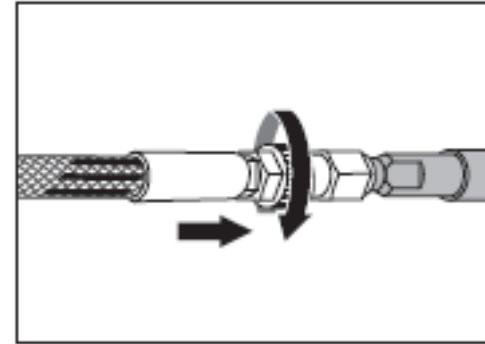
● How to Connect



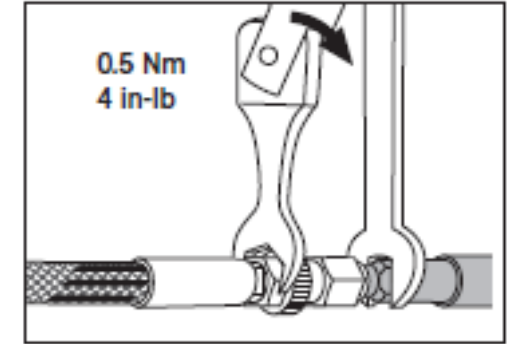
Unscrewing Grooved Ring



Screwing ONLY Coupling Nut by Hand



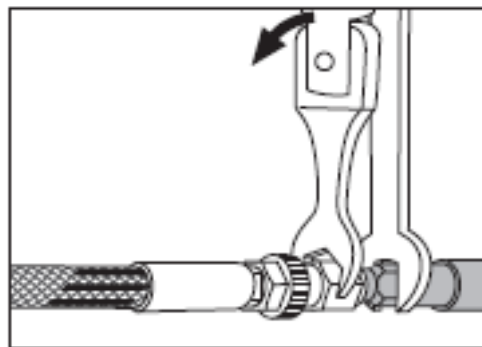
Screwing Grooved Ring by Hand



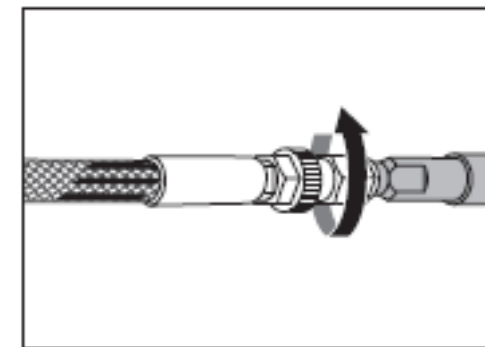
Tighten Behind Nut by Torque Wrench with fixing DUT flats

*Torque Specification: 0.5 Nm, 4in-lb

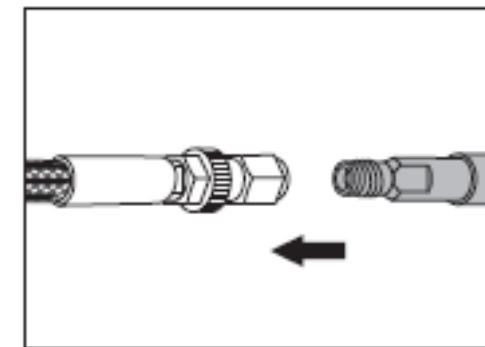
● How to Disconnect



Loosen Coupling Nut by wrench



Unscrewing Coupling Nut by Hand



Off from DUT



How to add torque at 1mm Safety lock connector



A. Coupling nut

B. Grooved nut

C. HEX behind Grooved nut

1. To loose and connect only **A. Coupling nut** into female side.
2. To rotate **B. Grooved nut** toward A. Coupling nut.
3. To add torque (0.45Nm or 4in-lbs) at **C. HEX** behind B. Grooved nut.

Caution: The safety lock connector can stand with up to 1.5Nm according to our investigation. However, applying higher strength than 1.5Nm torque may cause connector damage.



Mechanical Property

	Cable OD	Min bending radius	Weight	Temp
MWX001	4.0mm	15mm	50g	-30 ~ 85 degC
MWX002	4.0mm	15mm	50g	-30 ~ 85 degC
MWX004	4.0mm	20mm	50g	-30 ~ 85 degC



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Thank you