

MVE Low Loss Flexible

40GHz Test Cables

MCBL-LL501.50

Features

- ✓ Frequency up to 40GHz
- ✓ Excellent shielding effect greater than 100dB
- ✓ Fully flexible for ease of installation



Specifications

CONSTRUCTION		
ITEM	MATERIAL	DIAMETER
CENTER CONDUCTOR	Silver Plated Copper Wire	0.94±0.025 mm
DIELECTRIC	LD PTFE	2.80±0.05 mm
INNER SHIELD	SPCS	3.05±0.10 mm
OUTER SHIELD	SPC	3.45±0.10 mm
JACKET	FEP(Sky Blue)	4.20±0.10 mm
ELECTRICAL DATA		
ITEM	SPECIFICATION	
FREQUENCY RANGE	40GHz	
IMPEDANCE	50 Ohms	
CAPACITANCE	86 pF/m	
OPERATING TEMPERATURE	-55°C ~ +165°C	
SHIELD EFFECTIVENESS	>100 dB	
VELOCITY OF PROPAGATION	80%	
MIN. BENDING RADIUS	10 mm (SINGLE)	
MAXIMUM ATTENUATION		
FREQUENCY	ATTENUATION dB/M	ATTENUATION dB/ft
18.0 GHz	1.70	0.52
26.5 GHz	2.30	0.70
40.0 GHz	2.75	0.84

NOTES:

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





Cable Assembly Part Number

MVE PART NUMBER	CONNECTOR 1	CONNECTOR 2	XX- LENGTH (cm)	FREQUENCY (GHz)	VSWR
140140.LL501.XX	2.92mm Male S/T	2.92mm Male S/T	60, 100, 120,150, 200	40	1.30
140150.LL501.XX	2.92mm Male S/T	2.92mm Female S/T	60, 100, 120,150, 200	40	1.30
150150.LL501.XX	2.92mm Female S/T	2.92mm Female S/T	60, 100, 120,150, 200	40	1.30

*Definition of Length: “ XX ”

Length ≤ 30 CM, the length cable is referring to exclude two terminal length of connector.
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

***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 : 0.12×2 (sides)

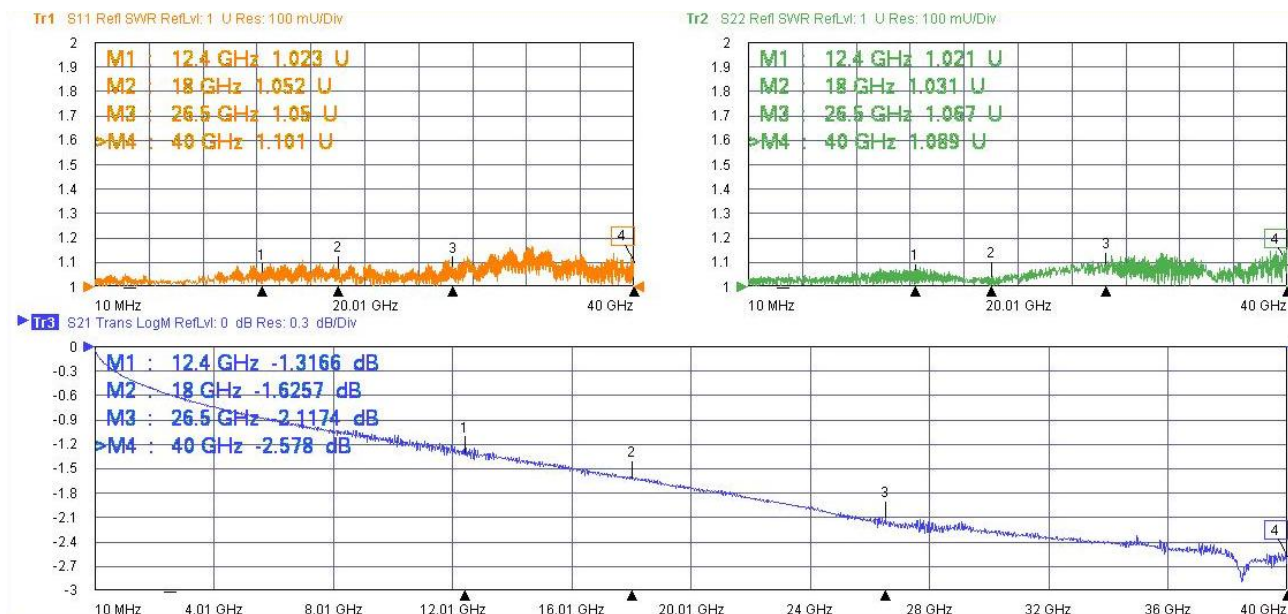
Cable Loss: per cable attenuation (Max.) * Cable length

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Typical Test Result

PART NUMBER	DESCRIPTION
140140.LL501.90	2.92mm Male To 2.92mm Male, DC-40GHz LL415 Low Loss Cable/L:90cm

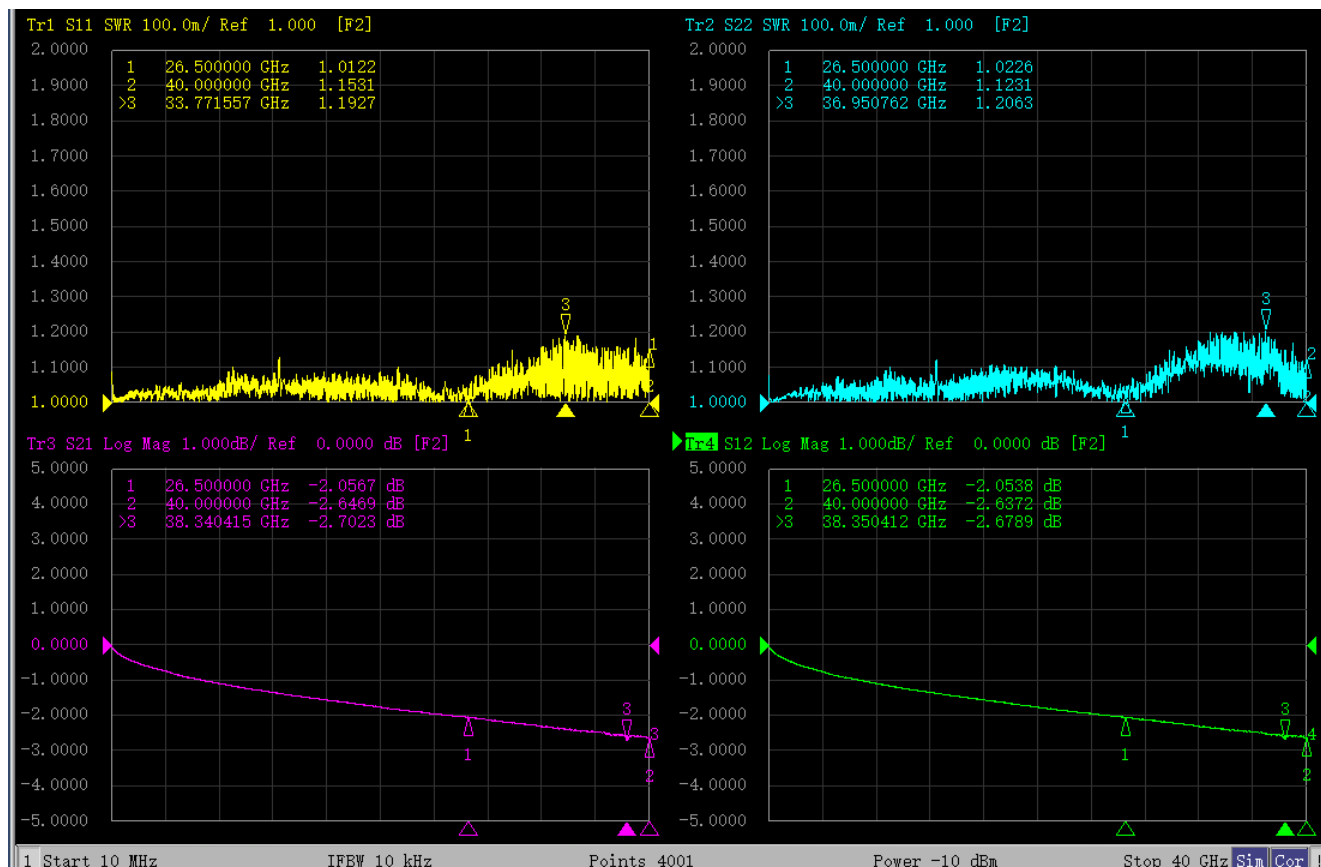


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Typical Test Result

PART NUMBER	DESCRIPTION
140150.LL501.100	2.92mm Male To 2.92mm Female, DC-40GHz LL501 Low Loss Cable/L:100cm

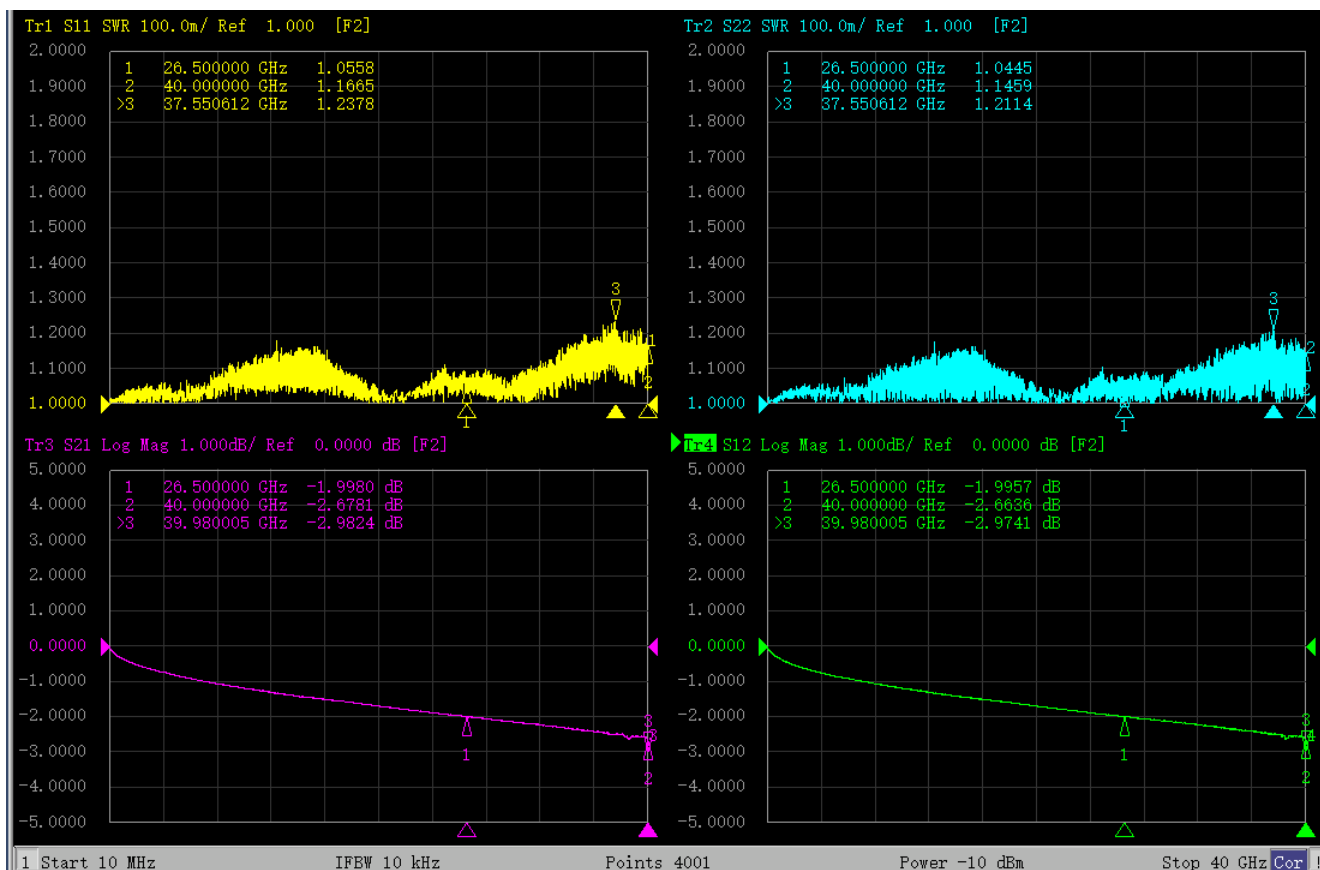


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Typical Test Result

PART NUMBER	DESCRIPTION
150150.LL501.95	2.92mm Female To 2.92mm Female, DC-40GHz LL501 Low Loss Cable/L:95cm



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