

# MVE Low Loss Flexible

# MCBL-LL263P.50

## Phase stable Coax Cable

### Features

- 83%Vp PTFE Tape + SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable
- Equivalent to UFB205A
- Replace to CNX3449,HF190,IW1801
- Phase stability  $\leq \pm 5^\circ$

### Applications:

- Military / Commercial Communication Systems Interconnect
- Shipboard System
- Airborne Platform
- Radio Station

### CONSTRUCTION

ITEM	MATERIAL	DIAMETER(mm)	Tolerance(mm)
INNER CONDUCTOR	Silver Plated Copper	1.45	$\pm 0.03$
DIELECTRIC	LD PTFE	3.90	$\pm 0.1$
OUTER CONDUCTOR	Silver-plated Copper Foil	4.10	$\pm 0.1$
INNER LAYER	--	--	--
OUTER SHEILD	Silver-plated Copper	4.60	$\pm 0.1$
JACKET	FEP (Clean / Gray)	5.20	$\pm 0.20$
ARMOR	PTFE	7.95	$\pm 0.2$

### ELECTRICAL DATA

BEND RADIUS :Installation	32mm
BEND RADIUS: Repeated	52mm
WEIGHT (g/m)	58
OPERATING TEMP	-55°C ~ +165°C
TEMP STORAGE	-65°C ~ +165°C

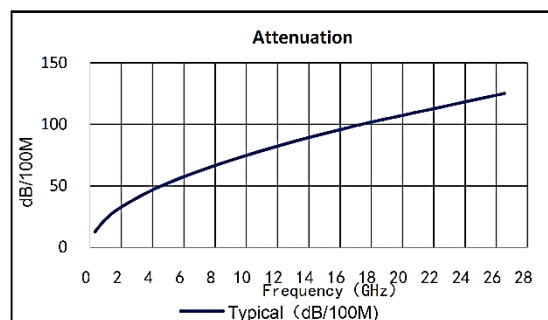
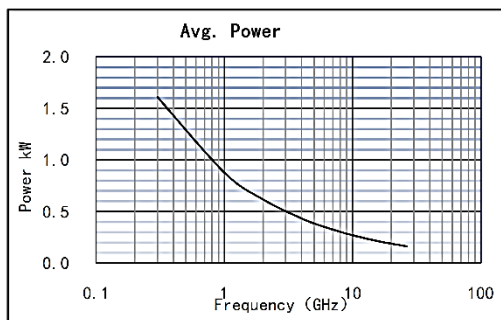
### MECHANICAL DATA

FREQUENCY	26.5GHz
IMPEDANCE	50 Ohm
VELOCITY OF PROPAGATION	83.0 %
SHIELDING EFFECT	<90 dB
VOLTAGE WITHSTAND	1500 V.DC
AMPLITUDE STABILITY	$\pm 0.1$ dB@26.5GHz
PASHE STABILITY	$\pm 5^\circ$ @26.5GHz

### TYP. ATTENUATION(25°C) and TYP. AVG. POWER (40°C)

Freq.(GHz)	0.3	1	2	4	6	8	10	12	14	16	18	26.5
<b>dB/100m</b>	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	95.8	101.9	125.2
<b>Power kW</b>	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.210	0.197	0.169

$K1 = 0.7156867$   $K2 = 0.0003280$  Equation =  $K1 * \sqrt{F} \text{MHz} + K2 * F \text{MHz}$



### NOTES:

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



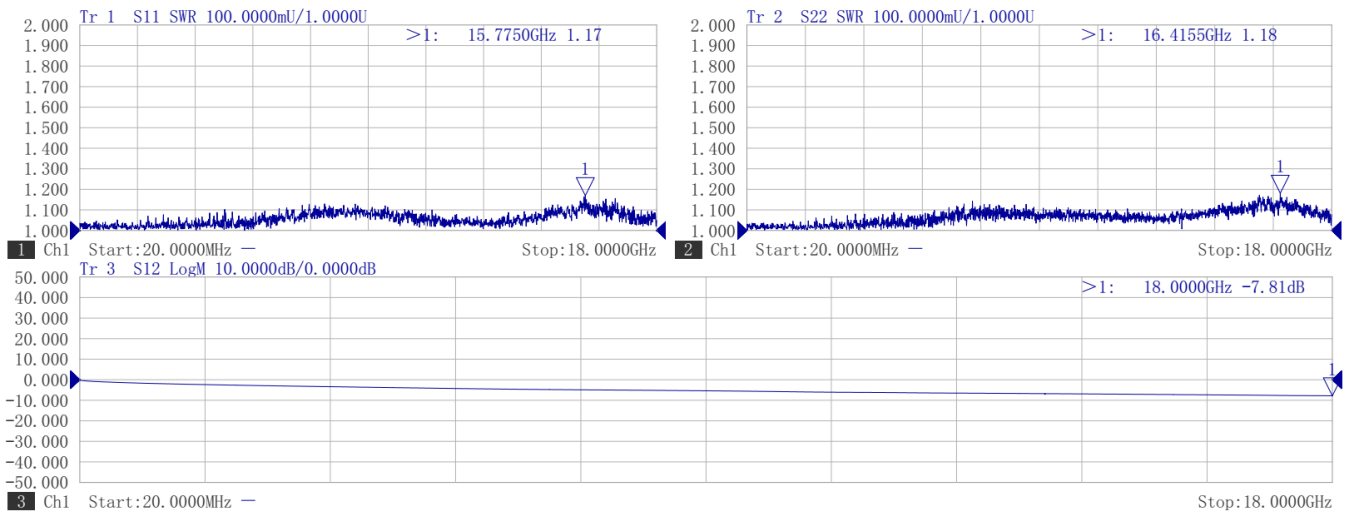


### Cable Assembly Part Number

MVE PART NUMBER	CONNECTOR 1	CONNECTOR 2	LENGTH (cm)	FREQUENCY (GHz)	VSWR
260260.LL263P.XX	N Male	N Male	15, 30, 50, 60, 90, 100	18	1.30
260280.LL263P.XX	N Male	SMA Male	15, 30, 50, 60, 90, 100	18	1.30

## Typical Test Result

PART NUMBER	DESCRIPTION
260260.LL263P.800	N Male To N Male, DC-18GHz LL263P Cable / L:800cm /VSWR<1.30, IL<8.8dB

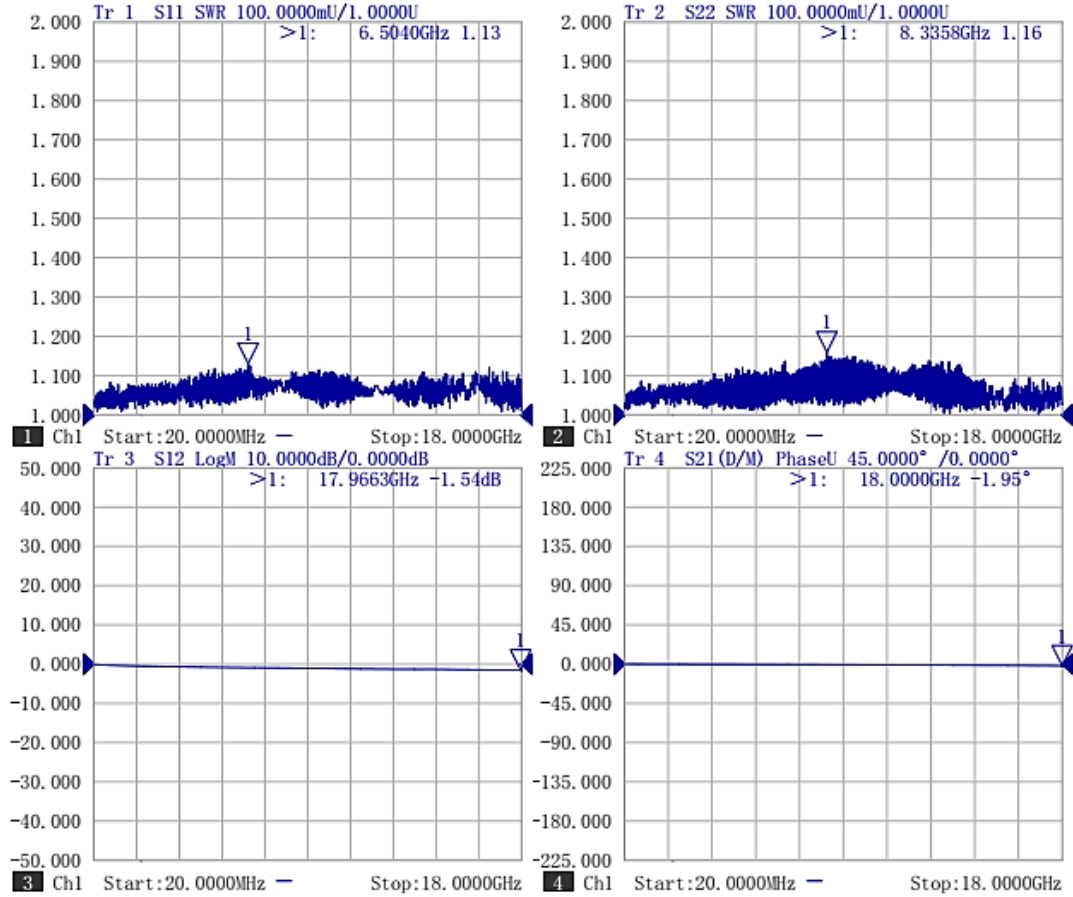


Ch1	SweepType	Start Frequency	Stop Frequency	Points	IF BW (Hz)	SweepTime(s)	Port1, 2Power (dBm)
Ch1	LIN_SWEEP	0.0200000000GHz	18.0000000000GHz	1601	10000	1.000000	0.0, 0.0

Win1	Marker	Delta	Stimulus	Response
Trace1--S11	1		15.7749GHz	1.169
Trace2--S22	1		16.4155GHz	1.181
Trace3--S12	1		18.0000GHz	-7.812dB



PART NUMBER	DESCRIPTION
260280.LL263P.150	N Male To SMA Male, DC-18GHz LL263P Cable / L:150cm VSWR<1.20@3GHz, IL<1.2dB@3GHz/VSWR<1.30@18GHz, IL<1.95dB@18GHz



	SweepType	Start (GHz)	Stop (GHz)	Points	IF BW (Hz)	SweepTime (s)	Port1, 2Power (dBm)
Ch1	LIN_SWEEP	0.020000000	18.000000000	1601	10000	1.000000	0.00, 0.00

	Marker	Delta	Stimulus	Response
Win1				
Trace1--S11	1		6.5040GHz	1.13
Win2				
Trace2--S22	1		8.3358GHz	1.16
Win3				
Trace3--S12	1		17.9663GHz	-1.54dB
Win4				
Trace4--S21	1		18.0000GHz	-1.95°

