

# MVE Low Loss Flexible

# MCBL-LL266P.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	$\pm 0.20$

## ELECTRICAL DATA

BEND RADIUS :Installation	25mm
BEND RADIUS: Repeated	52mm
WEIGHT (g/m)	58
OPERATING TEMP	-55°C ~ +165°C
TEMP STORAGE	-65°C ~ +165°C

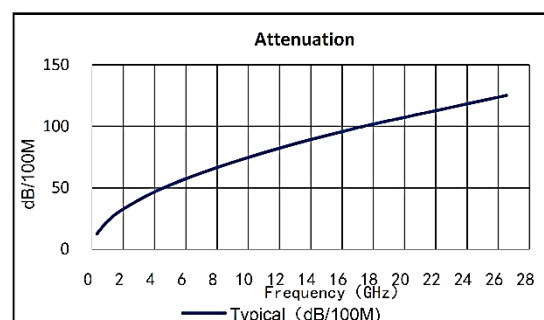
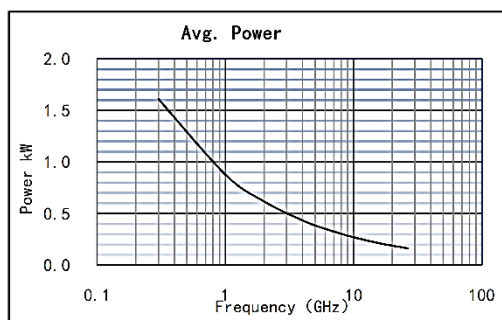
## MECHANICAL DATA

FREQUENCY	26.5GHz
IMPEDANCE	50 Ohm
VELOCITY OF PROPAGATION	83.0 %
SHIELDING EFFECT	<90 dB
VOLTAGE WITHSTAND	1500 V.DC

## 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
dB/100m	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	95.8	101.9	125.2
Power kW	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.210	0.197	0.169

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



### 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	LENGTH (cm)	FREQUENCY (GHz)	VSWR
200200.LL266P1.XX	BNC MALE	BNC MALE	15, 30, 50, 60, 90, 100	4	1.25
260260.LL266P.XX	N MALE	N MALE	15, 30, 50, 60, 90, 100	18	1.3

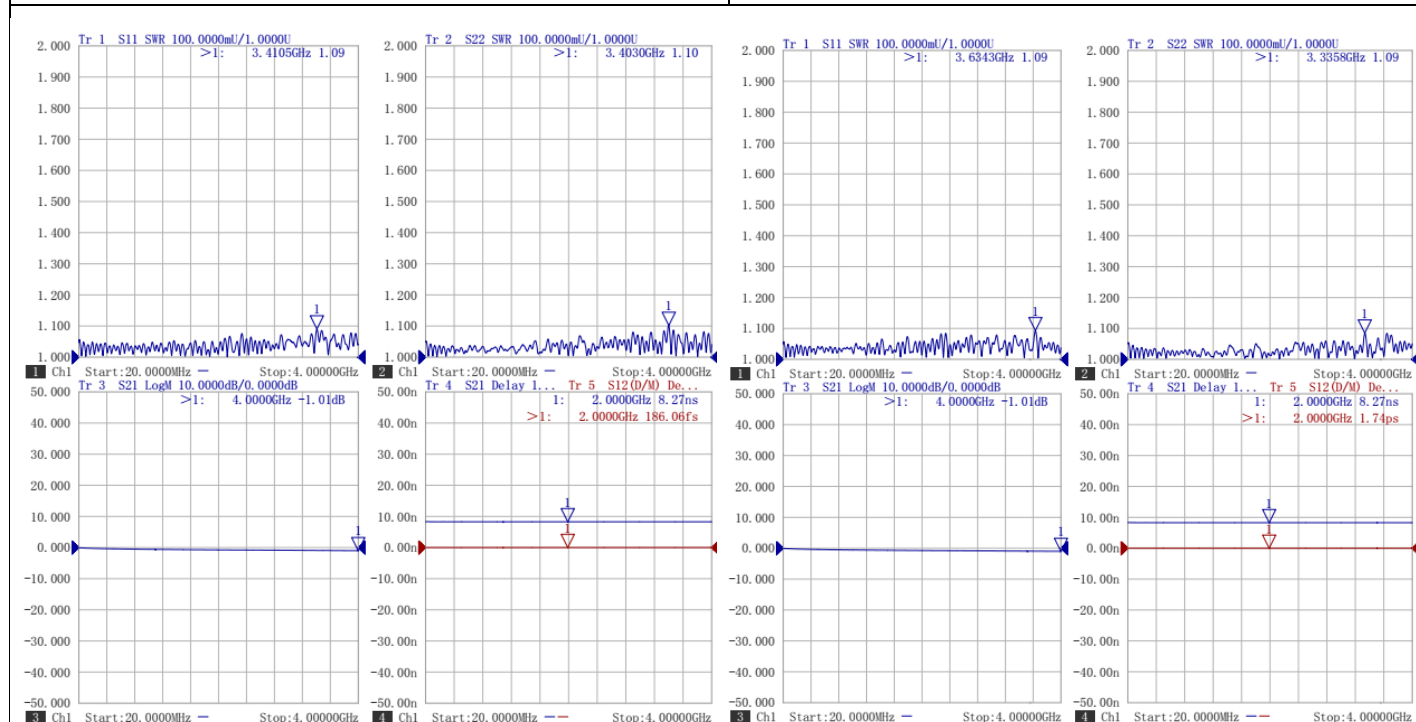
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## Typical Test Result

PART NUMBER	DESCRIPTION
200200.LL266P1.200	BNC Male To BNC Male, DC-4GHz LL266P Cable, phase match $< \pm 2\text{ps}/\text{pair}/L$ ; 200cm



## Typical Test Result

PART NUMBER	DESCRIPTION
260260.LL266P.150	N Male To N Male, DC-18GHz LL266P Low Loss Flexible Cable / L:150cm

