

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	± 0.03
DIELECTRIC	LD PTFE	3.90	± 0.1
OUTER CONDUCTOR	Silver-plated Copper Foil	4.10	± 0.1
INNER LAYER	--	--	--
OUTER SHEILD	Silver-plated Copper	4.60	± 0.1
JACKET	FEP (Clean / Gray)	5.20	± 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

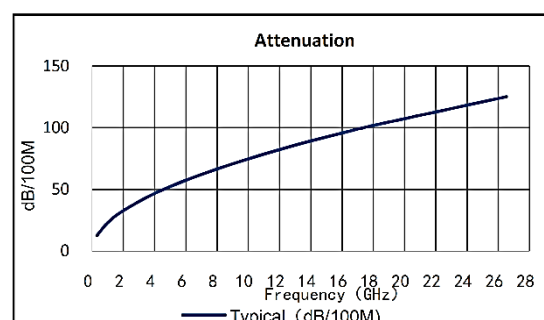
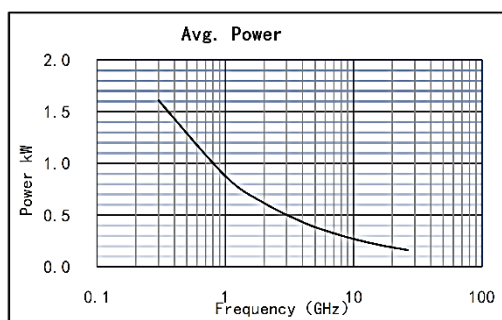
MECHANICAL DATA

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

$K1 = 0.7156867$ $K2 = 0.0003280$ 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 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	4.0	1.25
260260.LL266P.XX	N MALE	N MALE	15, 30, 50, 60, 90, 100	18.0	1.30
280280.LL266P.120	SMA MALE	SMA MALE	15, 30, 50, 60, 90, 100	26.5	1.30

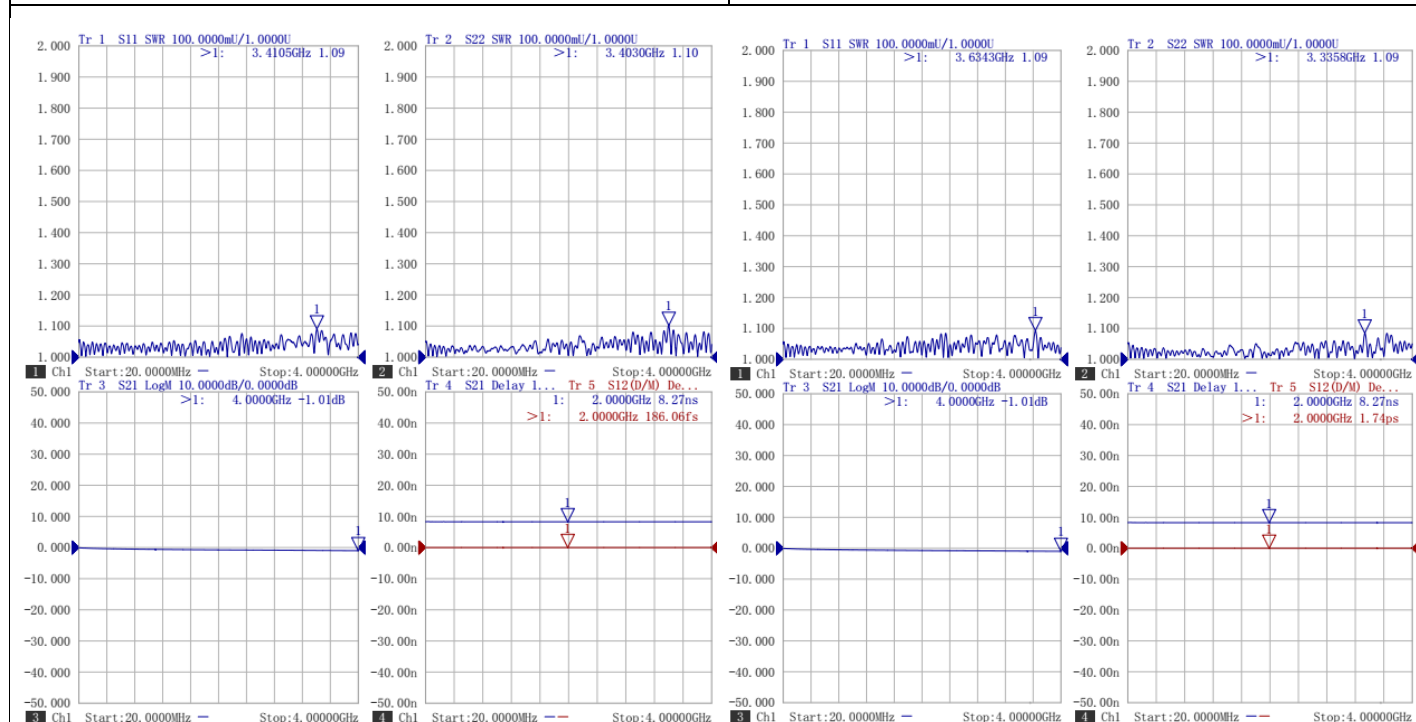
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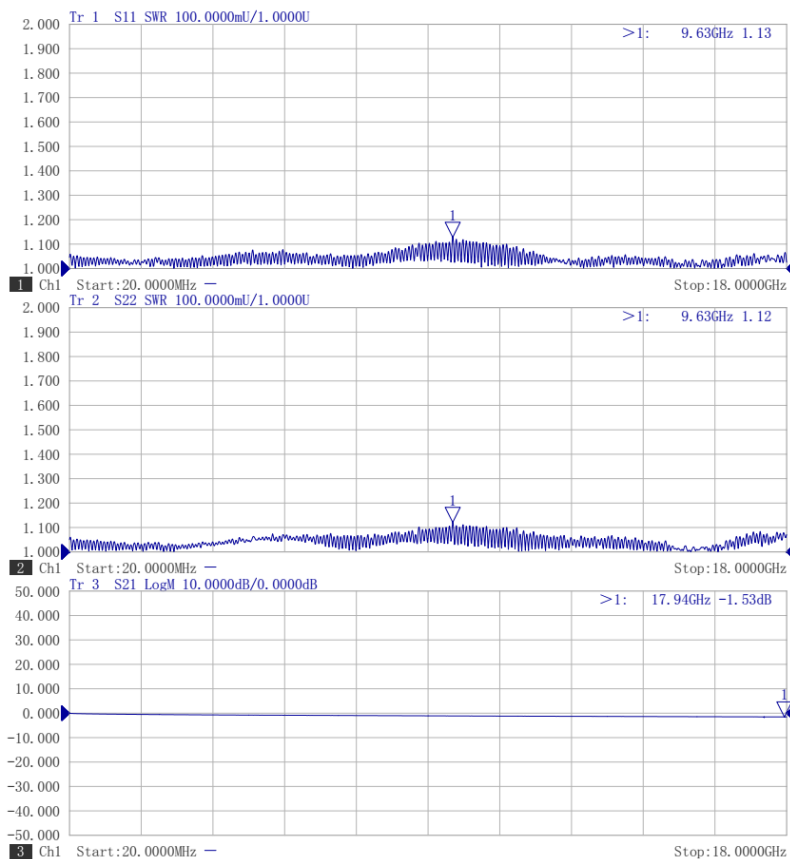
Typical Test Result

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



Typical Test Result

PART NUMBER	DESCRIPTION
280280.LL266P.120	SMA Male To SMA Male, DC-26.5GHz LL266P Low Loss Flexible Cable/L:120cm

