

MVE Low Loss Flexible

MCBL-LL415P.50

Phase stable Coax Cable

Specifications

Features

- 82%Vp PTFE Tape + SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable

Applications

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

CONSTRUCTION

ITEM	MATERIAL	DIAMETER(mm)	Tolerance(mm)
CENTER CONDUCTOR	Silver Plated Copper	1.06	±0.03
DIELECTRIC	LD PTFE	2.95	±0.05
OUTER CONDUCTOR	Silver Plated Copper Foil	3.15	±0.05
INNER LAYER	MID-Layer	3.19	±0.05
OUTER SHEILD	Silver Plated Copper	3.50	±0.15
JACKET	Gray FEP	3.90	±0.15

ELECTRICAL DATA

MIN. BEND RADIUS :Installation	19mm
MIN. BEND RADIUS: Repeated	39mm
WEIGHT (g/m)	36
OPERATING TEMP	-55°C ~ +165°C
TEMP STORAGE	-65°C ~ +165°C

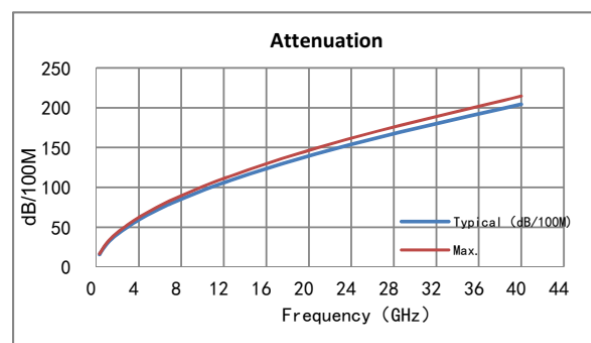
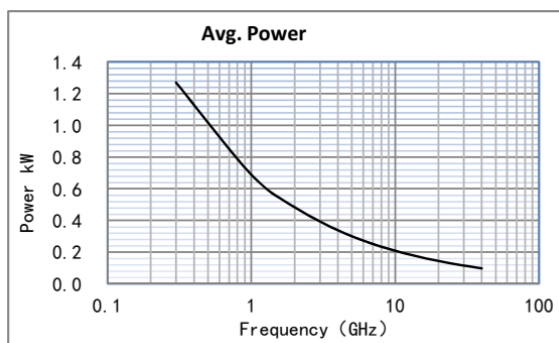
MECHANICAL DATA

FREQUENCY	40.0GHz
IMPEDANCE	50 Ohm
VELOCITY OF PROPAGATION	82.0 %
SHIELDING EFFECT	90 dB
VOLTAGE WITHSTAND	900 V.DC

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

Freq.(GHz)	0.3	1	2	4	6	7.5	10	12	18	26.5	40.0
dB/100m	15.8	29.1	41.5	59.4	73.4	82.5	96.1	105.9	131.7	162.7	204.4
Power kW	1.270	0.689	0.483	0.337	0.273	0.243	0.208	0.189	0.152	0.123	0.098

$$K1=0.8999642 \quad K2=0.0006109 \quad \text{Equation} = K1*\sqrt{\text{FMHz}} + K2*\text{F MHz}$$



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
140140.LL415P.1000	2.92mm Male	2.92mm Male	15, 30, 50, 60, 90, 100	40	1.35

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Typical Test Result

