

MVE Low Loss Flexible

MCBL-LL671.50

Phase stable Coax Cable

Specifications

Features

- 80%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)
INNER CONDUCTOR	Silver Plated Copper	0.51	±0.01
DIELECTRIC	LD PTFE	1.45	±0.03
OUTER CONDUCTOR	Silver-plated Copper Foil	1.63	±0.07
OUTER SHEILD	Silver-plated Copper	1.94	±0.06
JACKET	FEP (Gray)	2.20	±0.10

ELECTRICAL DATA

MIN. BEND RADIUS :Installation	9mm
MIN. BEND RADIUS: Repeated	22mm
WEIGHT (g/m)	15
OPERATING TEMP	-55°C ~ +125°C
TEMP STORAGE	-65°C ~ +125°C

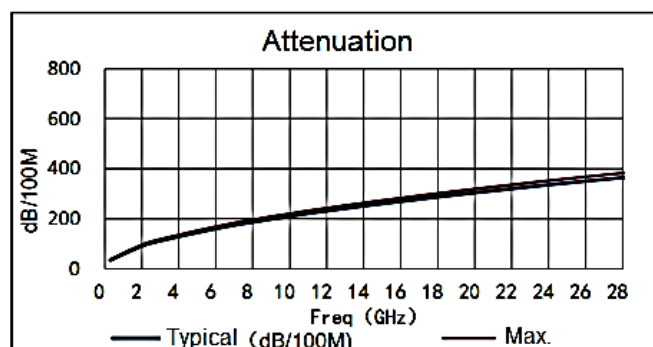
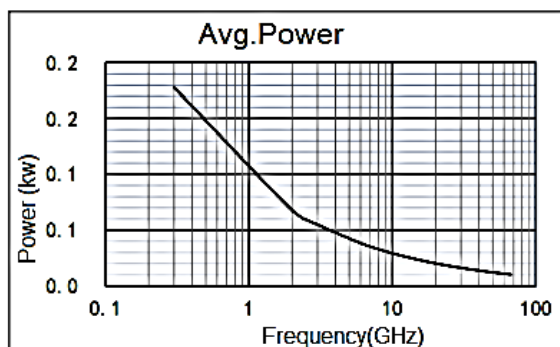
MECHANICAL DATA

FREQUENCY	67.0GHz
IMPEDANCE	50 Ohm
VELOCITY OF PROPAGATION	80.0 %
SHIELDING EFFECT	90 dB
VOLTAGE WITHSTAND	400 V.DC

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

Freq.(GHz)	0.3	1.0	2.0	4.0	6.0	8.0	10.0	12.0	18.0	26.5	40.0	67.0
dB/100m	36.70	67.3	95.7	136.2	167.6	194.4	218.1	239.7	296.0	362.7	451.2	595.4
Power kW	0.500	0.272	0.192	0.135	0.109	0.094	0.084	0.077	0.062	0.051	0.041	0.031

$$K1 = 1.9758324 \quad K2 = 0.0012207 \quad \text{Equation} = K1 \cdot \sqrt{F \text{ MHz}} + K2 \cdot F \text{ MHz}$$



NOTES:

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





Cable Assembly Part Number

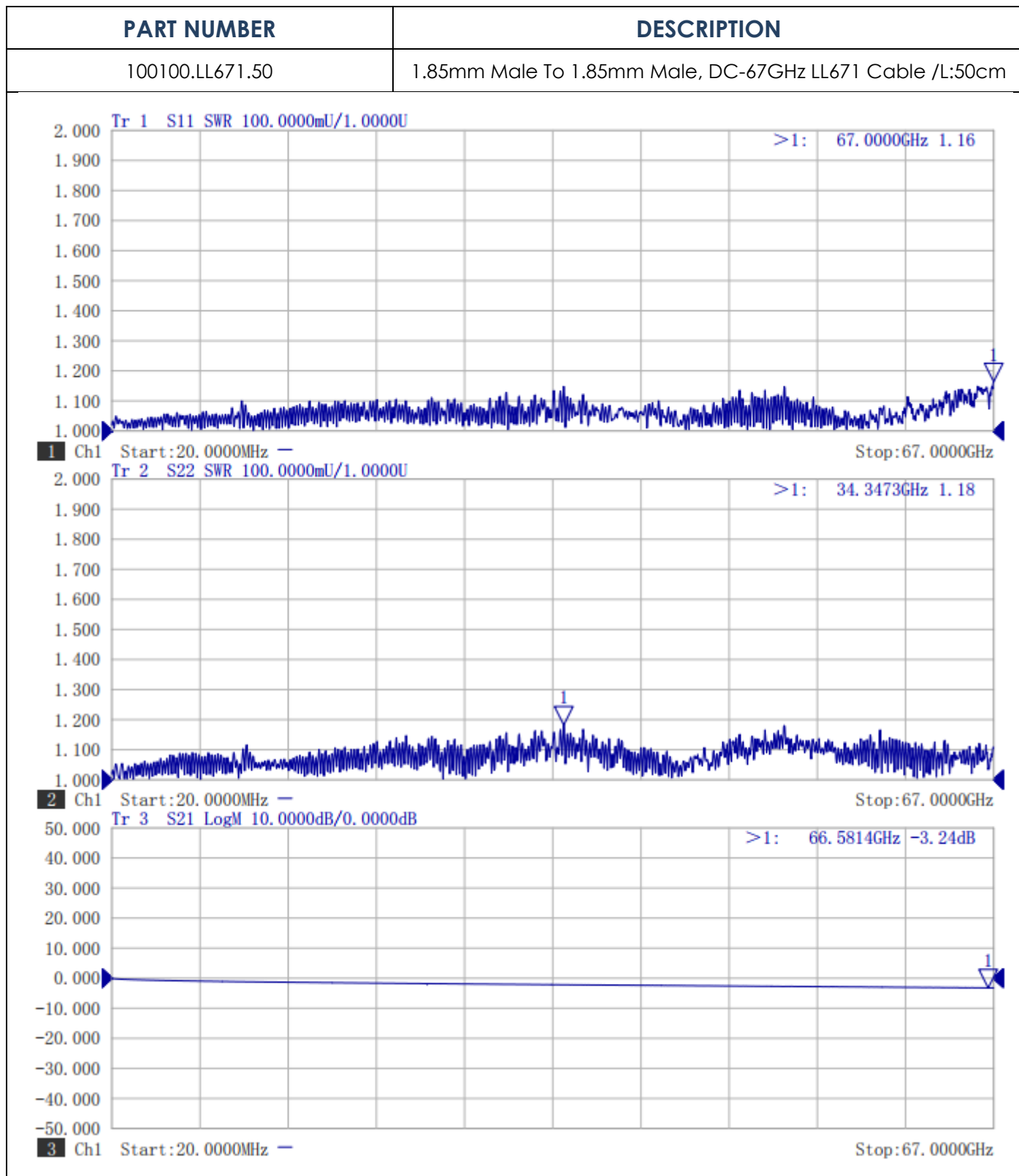
MVE PART NUMBER	CONECTOR 1	CONNECTOR 2	LENGTH (cm)	FREQUENCY (GHz)	VSWR
100100.LL671.XX	1.85mm MALE S/T	1.85mm MALE S/T	15, 30, 50, 60, 90, 100	67	1.50
100110.LL671.XX	1.85mm MALE S/T	1.85mm FEMALE S/T	15, 30, 50, 60, 90, 100	67	1.40
100110.LL671P1.XX	1.85mm MALE S/T	1.85mm FEMALE S/T	15, 30, 50, 60, 90, 100	67	1.40
100120.LL671.XX	1.85mm MALE S/T	2.4mm FEMALE S/T	15, 30, 50, 60, 90, 100	50	1.40
100140.LL671.XX	1.85mm MALE S/T	2.92mm MALE S/T	15, 30, 50, 60, 90, 100	40	1.30
110140.LL671.XXB	1.85mm FEMALE S/T	2.92mm MALE S/T	15, 30, 50, 60, 90, 100	40	1.30
150150.LL671.XX	2.92mm FEMALE S/T	2.92mm FEMALE S/T	15, 30, 50, 60, 90, 100	40	1.40
160160.LL671.XX	3.5mm MALE S/T	3.5mm MALE S/T	15, 30, 50, 60, 90, 100	33	1.35

NOTES:

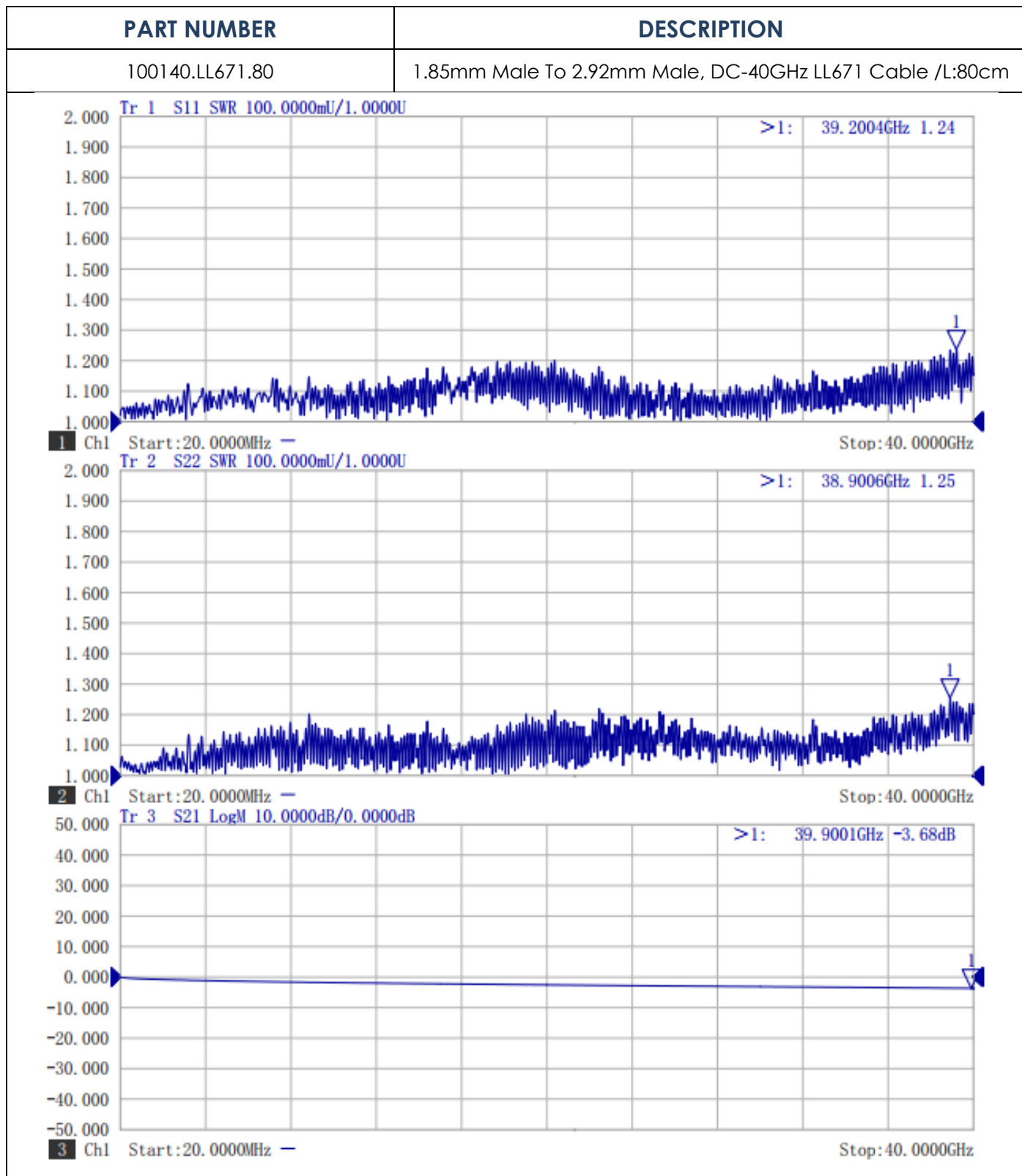
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY



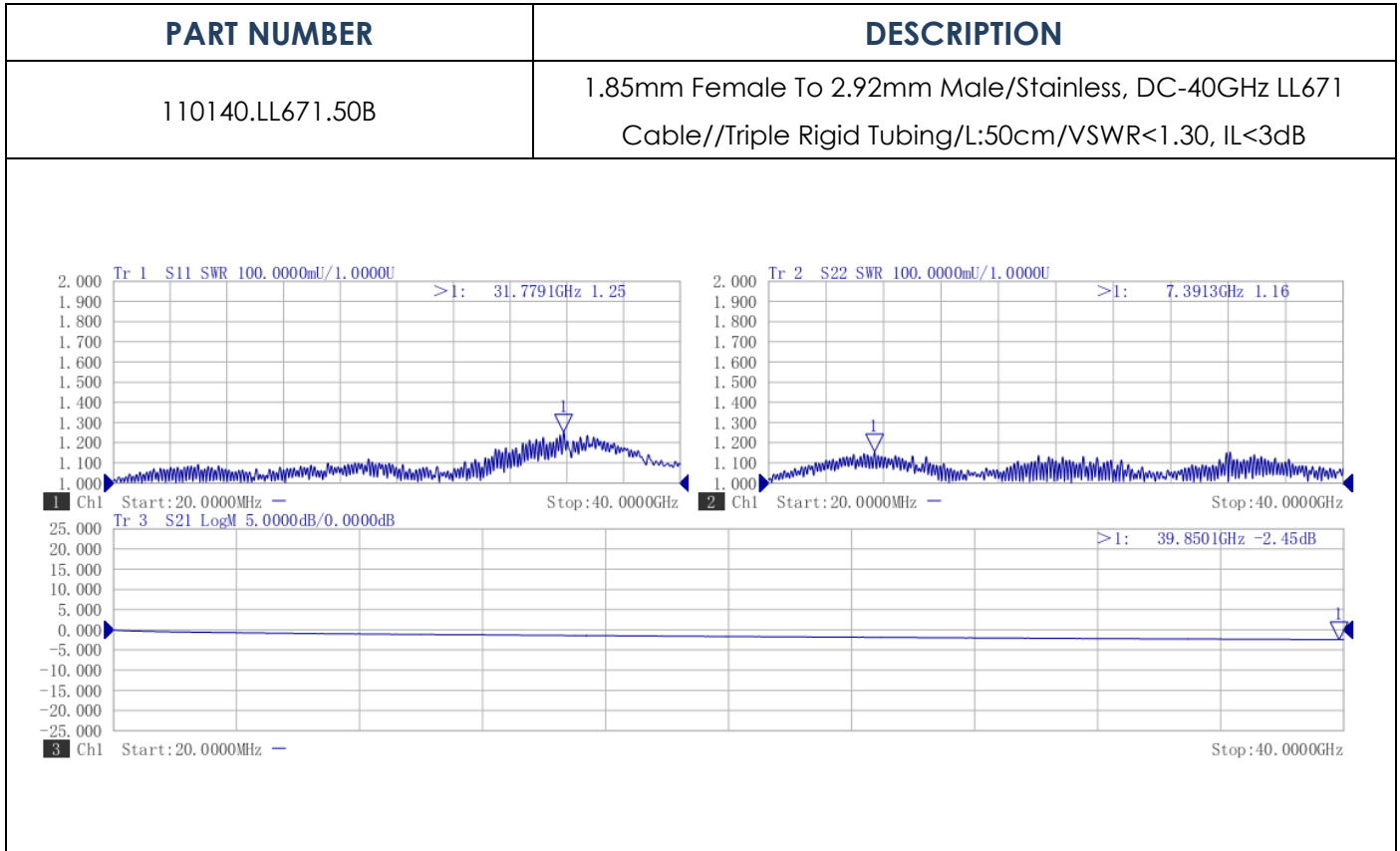
Typical Test Result



Typical Test Result



Typical Test Result



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

