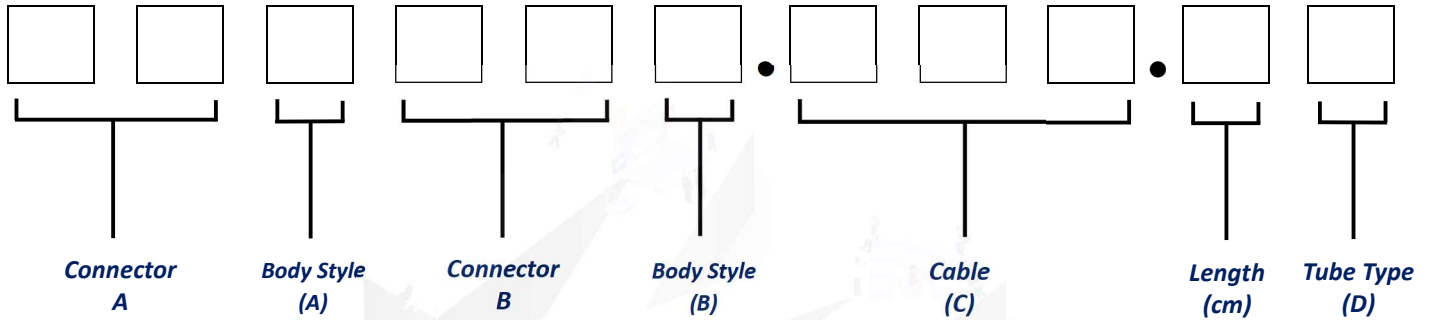




STANDARD COAXIAL CABLE ASSEMBLIES

MVE standard coaxial cable can provide not only inexpensive cost but also a lot of variety models to meet your needs. The overall diameter of flexible series is including, 2.59mm(RG316) , 2.93mm(RG316 Double Shielding), 0.085inch(F085/SS405), 0.141inch(F141/SS402); Semi-flex series are including: 0.085 inch(SF085/RG405), 0.141inch(SF141/RG402); Semi-rigid series are including: 0.034inch(SR034), 0.047 inch(SR047);0.085 inch(SR085); 0.141inch (SR141). In the meantime, MVE can offer customized services and support the optimization of cable assembly. With MVE service, customize product to let user easy to install. MVE is aimed to provide a wide range of performance coaxial cable for various demands.



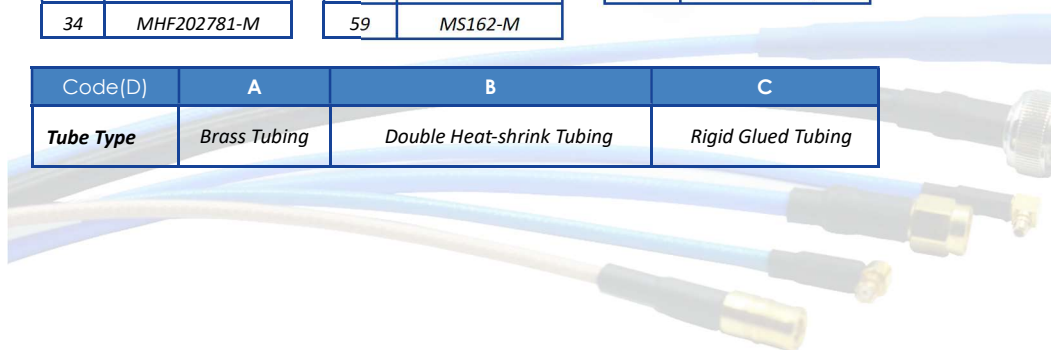
No	Conn. A/B
10	1.85mm-M
11	1.85mm-F
12	2.4mm-M
13	2.4mm-F
14	2.9mm-M
15	2.9mm-F
16	3.5mm-M
17	3.5mm-F
18	APC7-M
19	APC7-F
20	BNC-M
21	BNC-F
22	MCX-M
23	MCX-F
24	MMCX-M
25	MMCX-F
26	N-M
27	N-F
28	SMA-M
29	SMA-F
30	SSMA-M
31	SSMA-F
32	TNC-M
33	TNC-F
34	MHF202781-M

No	Conn. A/B
35	75ΩBNC-M
36	75ΩBNC-F
37	MHF20311-M
38	75ΩF-M
39	75ΩF-F
40	MHF20367-M
41	MHF20448-M
42	75ΩN-M
43	75ΩN-F
44	75ΩSMB-M
45	75ΩSMB-F
46	MS147-M
47	MM8430-M
48	SMP-F
49	MHF20428-M
50	SMB-F
51	SMB-M
52	UHF-F
53	UHF-M
54	Fakra SMB-M
55	Fakra SMB-F
56	MM8030-M
57	7/16DIN-M
58	MS180-M
59	MS162-M

No	Conn. A/B
60	CRC9-M
61	MS162-M
62	SSMCX-M
63	SMPM-M
64	FAKRA-M
65	TS9A-M
66	MS156C-M
67	MHF20567-M
68	MS156-M
69	MM8930-M
No	Body Style
0	Standard
1	Reverse
2	Right angle
3	Quick
4	RP-Right angle
5	RP-Quick
6	Bulkhead
7	Opposite Direction R/A
8	2Hole Flange
9	RP-Bulkhead
A	Quick/No hex
B	4Hole Flange

No	Coaxial Cables ©
6	RG-6(U)
58	RG58(U)
59	RG59
081	Mini-coaxial 0.81mm
113	Mini-coaxial 1.13mm
137	Mini-coaxial 1.37mm
142	RG-142
174	RG-174
178	RG-178
214	RG-214
316	RG-316
316D	RG-316 Doubt Shield
400	RG-400
F085	SS405
F141	SS402
SF085	RG405
SF141	RG402
SF085JB	RG405(Blue Jacket)
SF141JB	RG402(Blue Jacket)
SPF085	SFL405
SPF141	SFL402
SR034	Semi-rigid 034
SR047	Semi-rigid 047
SR085	Semi-rigid RG405
SR141	Semi-rigid RG402
200LL	200LL,LMR200
400LL	400L,CFD400,LMR400
600LL	600LL,LMR600
2CS	AWG28 x2C
3CS	AWG28 x3C

Code(D)	A	B	C
Tube Type	Brass Tubing	Double Heat-shrink Tubing	Rigid Glued Tubing





COAXIAL CABLE

MCBL-400A.50

RG400

MIL-C-17

Features

- ✓ Frequency up to 12.4GHz
- ✓ Low signal attenuation
- ✓ Convenient assembly



Specifications

CONSTRUCTION						
ITEM	MATERIAL			DIAMETER		
CENTER CONDUCTOR	Sliver Plated Copper Wire			1±0.012mm Strand(19/0.2)		
DIELECTRIC	PTFE			2.95±0.03 mm		
INNER SHIELD	Sliver Plated Copper			3.5±0.15 mm		
OUTER CONDUCTOR	Sliver Plated Copper			4.05±0.15 mm		
JACKET	FEP			4.95±0.10 mm		
ELECTRICAL DATA AT 20°C						
ITEM	SPECIFICATION					
OPERATING FREQUENCY	12.4GHz MAX.					
IMPEDANCE	50±2 OHMS					
CAPACITANCE	94pF/M					
VELOCITY OF PROPAGATION	NOM. 69.5 %					
CONTINUOUS WORKING VOLTAGE	1400Vrms MAX.					
TEMPURATURE RANGE	-40°C~+185°C					
MIN. BENDING RADIUS (SINGLE)	30mm					
MAXIMUM ATTENUATION AT 20°C						
FREQUENCY (GHz)	0.1	0.3	1	2	3	5
ATTENUATION (dB/M)	0.15	0.26	0.5	0.71	1.00	1.71
POWER (W)	1100	703	349	263	200	163



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	XX- LENGTH (cm)	FREQUENCY (GHz)	VSWR (TYP.)
200200.400A.XX	BNC Male S/T	BNC Male S/T	30, 40, 60, 100, 120, 150	3.0	1.40
200260.400A.XX	BNC Male S/T	N Male S/T	30, 40, 60, 100, 120, 150	4.0	1.40
200280.400A.XX	BNC Male S/T	SMA Male S/T	30, 40, 60, 100, 120, 150	4.0	1.40
260260.400A.XX	N Male S/T	N Male S/T	30, 40, 60, 100, 120, 150	6.0	1.40
260270.400A.XX	N Male S/T	N Female S/T	30, 40, 60, 100, 120, 150	6.0	1.40
260280.400A.XX	N Male S/T	SMA Male S/T	30, 40, 60, 100, 120, 150	6.0	1.35
270280.400A.XX	N Female S/T	SMA Male S/T	30, 40, 60, 100, 120, 150	6.0	1.40
280280.400A.XX	SMA Male S/T	SMA Male S/T	30, 40, 60, 100, 120, 150	6.0	1.30
280280.400A.XX-8G	SMA Male S/T	SMA Male S/T	30, 40, 60, 100, 120, 150	8.0	1.40
280282.400A.XX	SMA Male S/T	SMA Male R/A	30, 40, 60, 100, 120, 150	6.0	1.50
280290.400A.XX	SMA Male S/T	SMA Female S/T	30, 40, 60, 100, 120, 150	6.0	1.35
282282.400A.XX	SMA Male R/A	SMA Male R/A	30, 40, 60, 100, 120, 150	6.0	1.50
290SXXX.400A.XX	SMA Female S/T	Stripped(mm)	30, 40, 60, 100, 120, 150	--	--
320320.400A.XX	TNC Male	TNC Male	30, 40, 60, 100, 120, 150	6.0	--

***Definition of Length: " XX "**

Length ≤ 30CM, the length cable is referring to exclude two terminal length of connector.
Length > 30CM, the length cable is referring to include two terminal length of connector.

****Definition of Tolerance**

Length ≤ 10cm: ±0.5cm , Length ≤ 30cm: ±1.0 cm , Length ≤ 50cm: ±2.0 cm ,
Length ≤ 100cm: ±2.5 cm, Length > 101cm: ±3.0cm

*****Estimate of Cable Assembly loss**

Cable assembly loss = Connector loss + Assembly loss + Cable loss
Connector Loss: $0.08 \times \sqrt{\text{Frequency}} \times 2$ (2 connectors)
Assembly Loss : $0.12 \times 2(\text{sides})$
Cable Loss: per cable attenuation (Max.) * Cable length

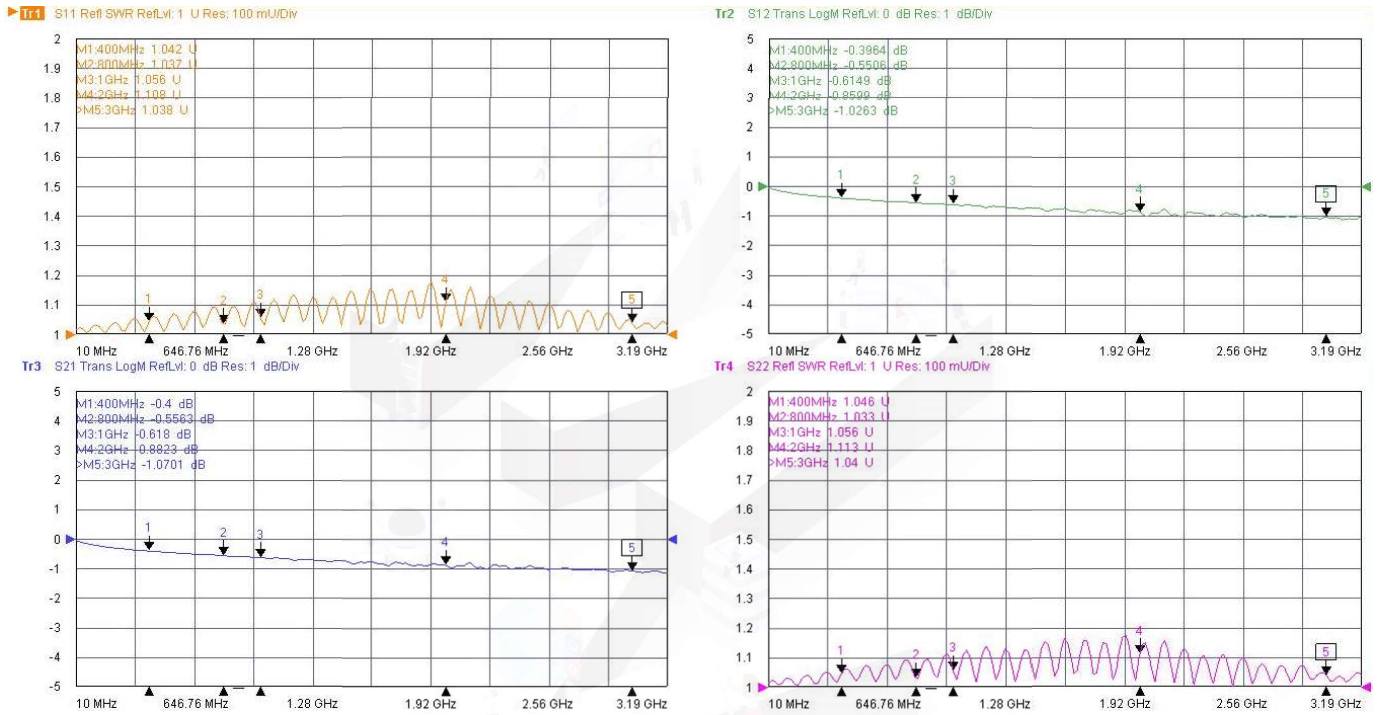
NOTES:

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



Typical Test Result

PART NUMBER	DESCRIPTION
200200.400A.100A	BNC Male To BNC Male, RG400/L:100cm/Brass Tubing





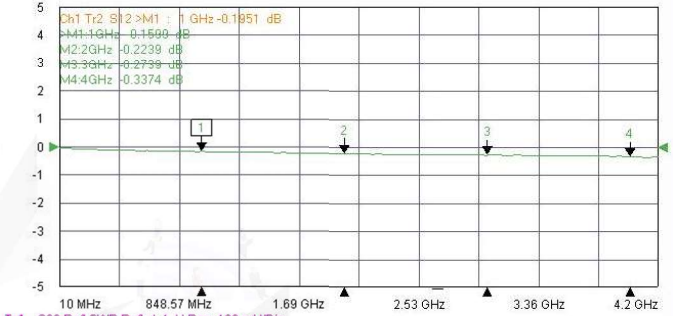
Typical Test Result

PART NUMBER	DESCRIPTION
200280.400A.15A	BNC Male To SMA Male, RG400/L:15cm/Brass Tubing

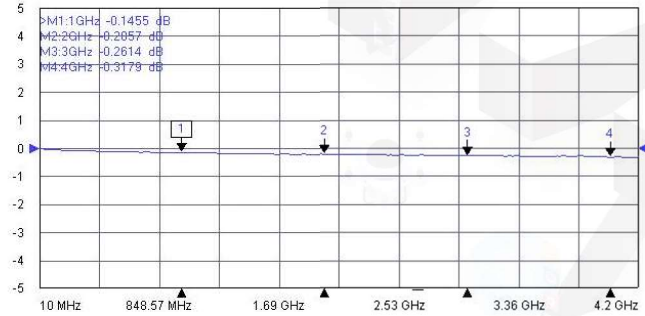
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100mU/Div



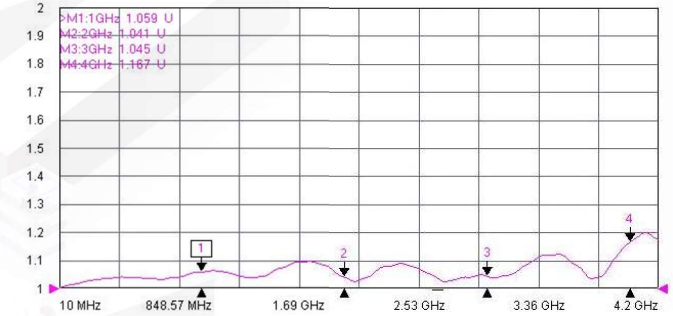
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr4 S22 Refl SWR RefLvl: 1 U Res: 100mU/Div

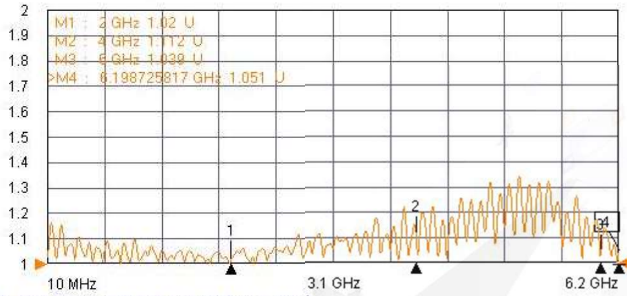




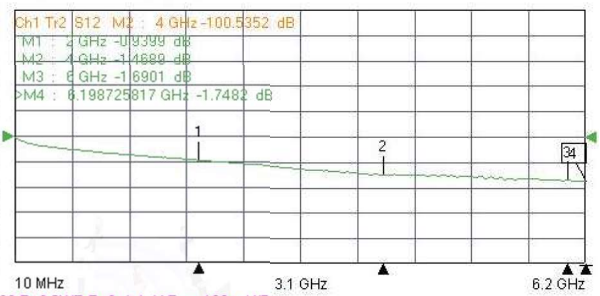
Typical Test Result

PART NUMBER	DESCRIPTION
260260.400A.100C	N Male To N Male, RG400/L:100cm/Rigid Glued Tubing

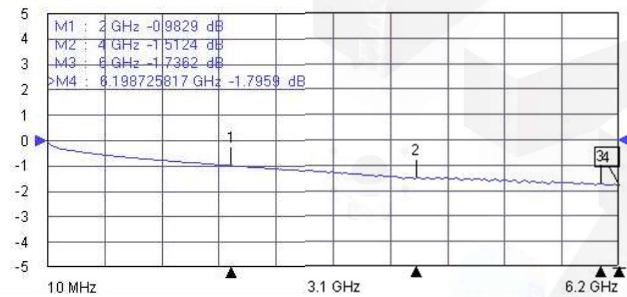
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



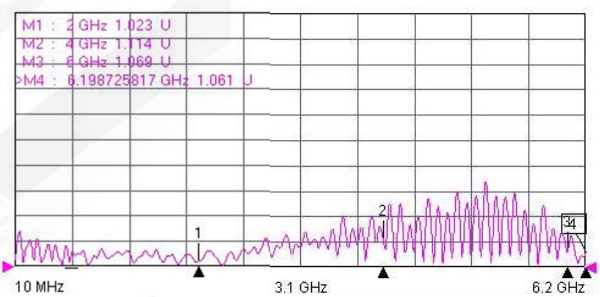
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div

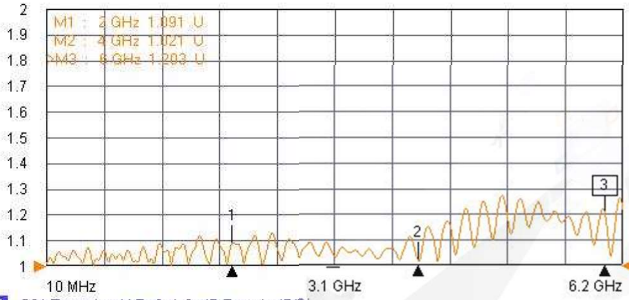




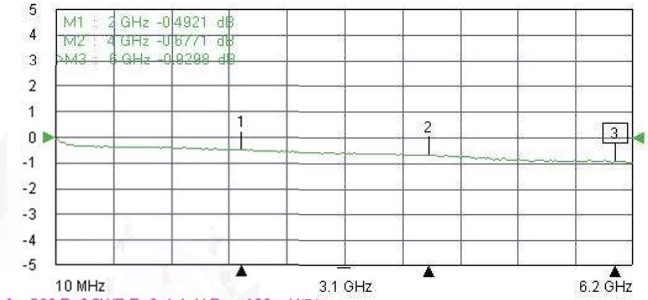
Typical Test Result

PART NUMBER	DESCRIPTION
260270.400A.50A	N Male To N Female, RG400/L:50cm/Brass Tubing

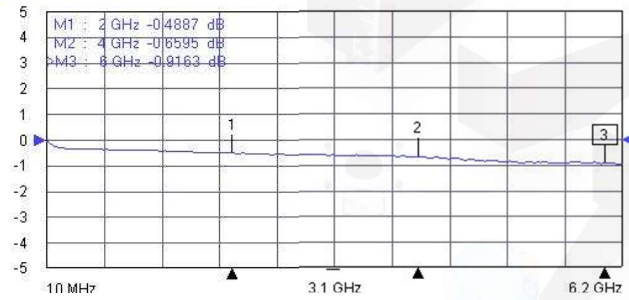
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



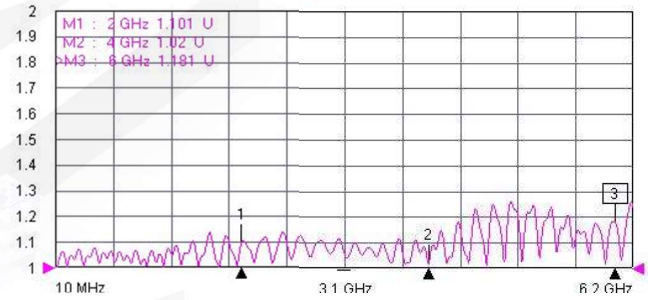
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



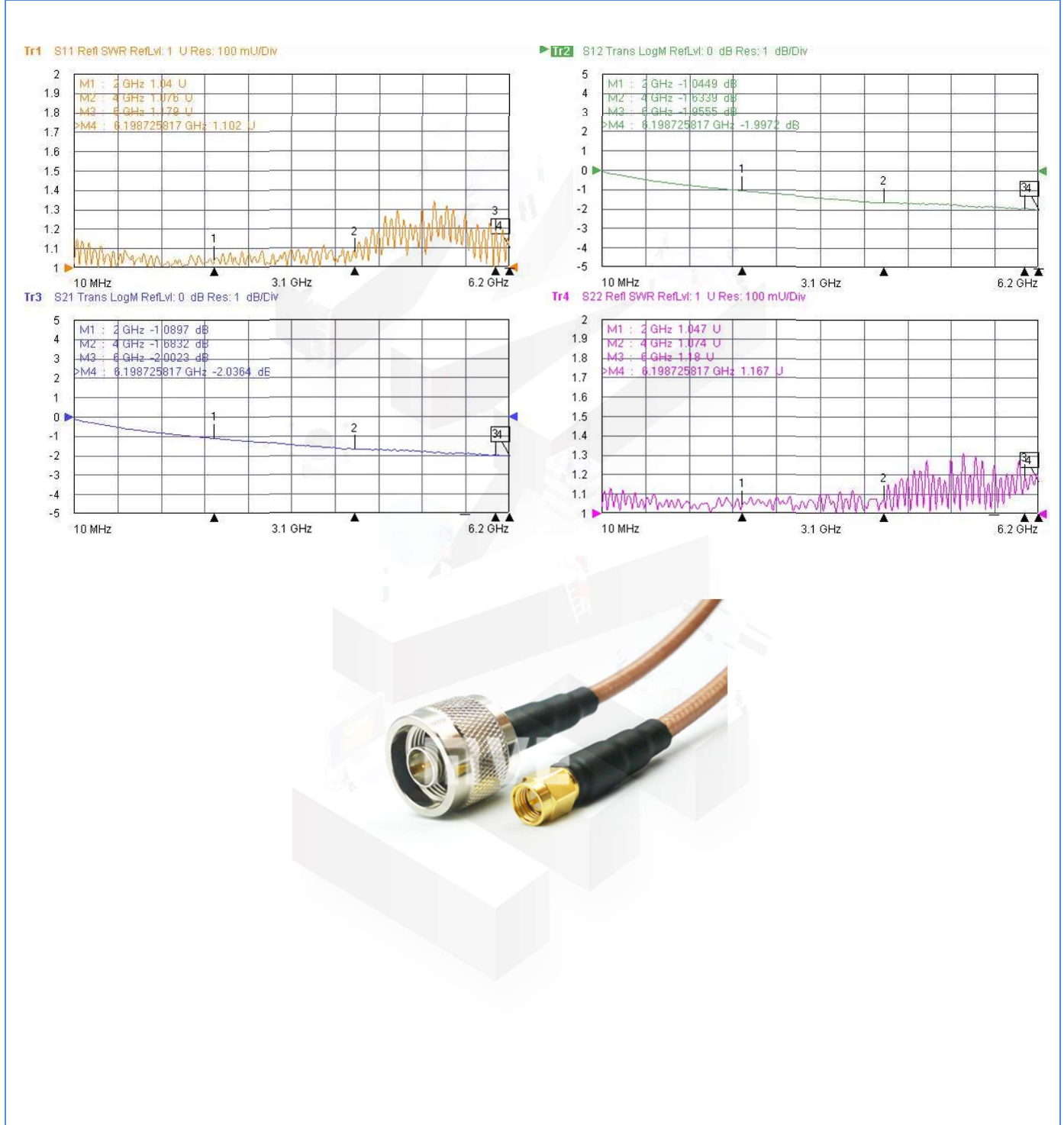
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div





Typical Test Result

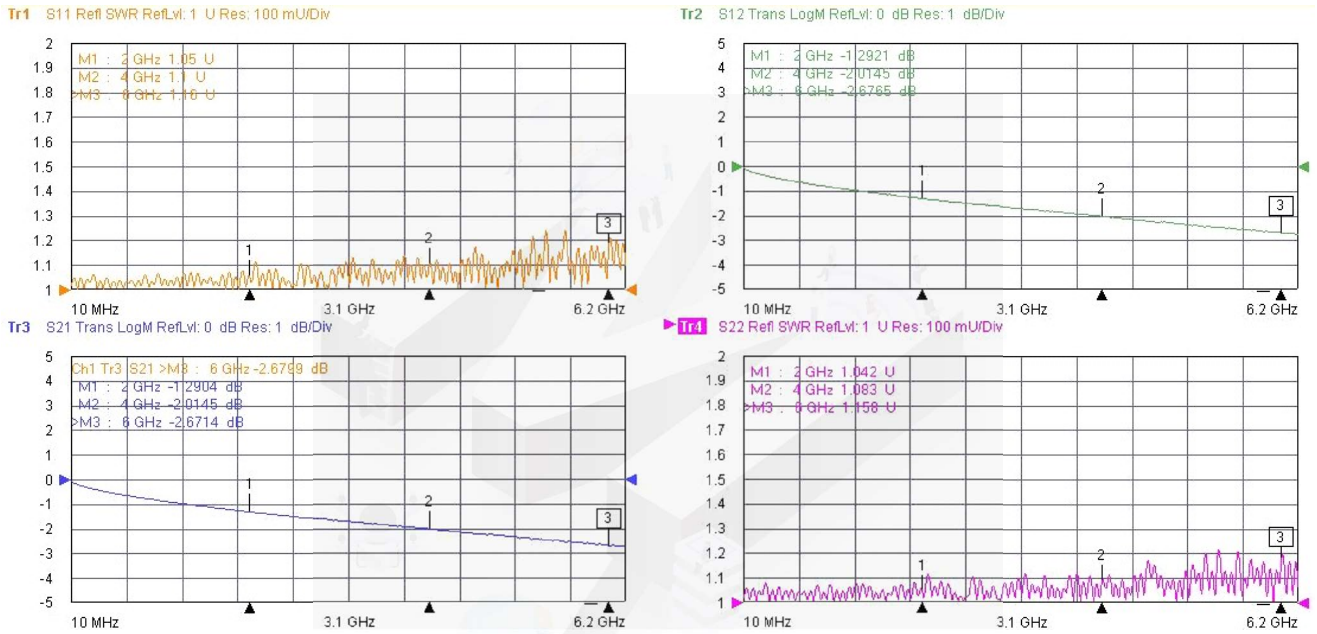
PART NUMBER	DESCRIPTION
260280.400A.120C	N Male To SMA Male, RG400/L:120cm/Rigid Glued Tubing





Typical Test Result

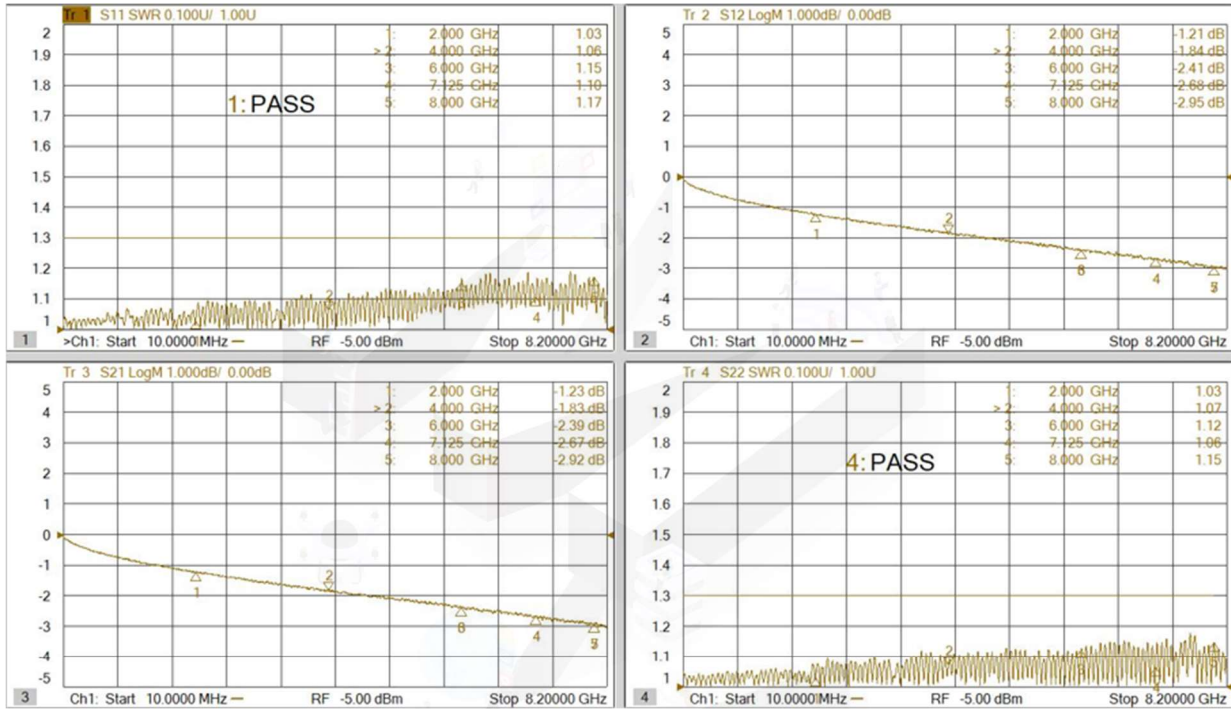
PART NUMBER	DESCRIPTION
280280.400A.150C	SMA Male To SMA Male, RG400/L:150cm/Rigid Glued Tubing





Typical Test Result

PART NUMBER	DESCRIPTION
280280.400A.150C-8G	SMA Male To SMA Male, RG400/L:150cm/Rigid Glued Tubing ; DC-8GHz

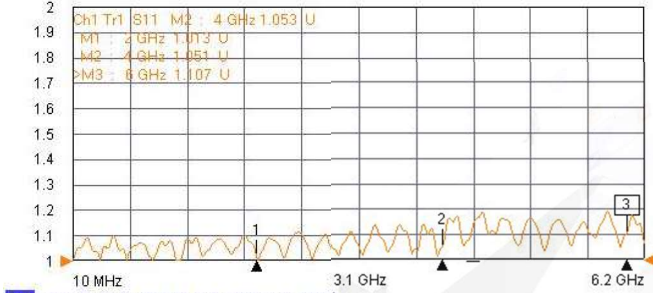




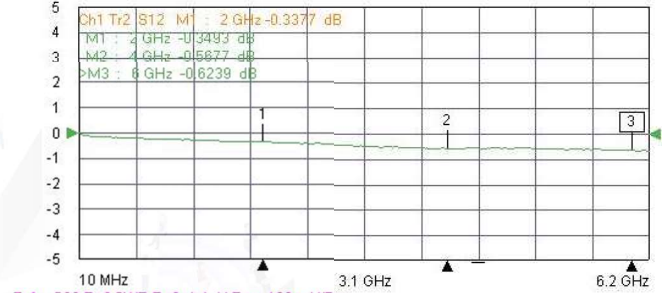
Typical Test Result

PART NUMBER	DESCRIPTION
280282.400A.40A	SMA Male To SMA Male R/A, RG400/L:40cm, Brass Tubing

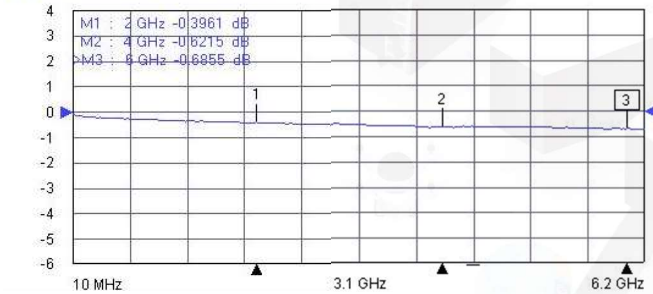
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



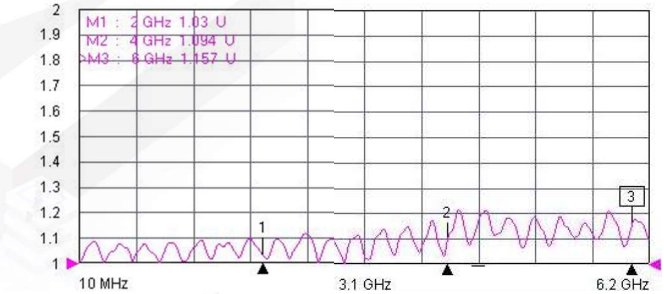
Tr2 S12 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



Tr3 S21 Trans LogM RefLvl: 0 dB Res: 1 dB/Div



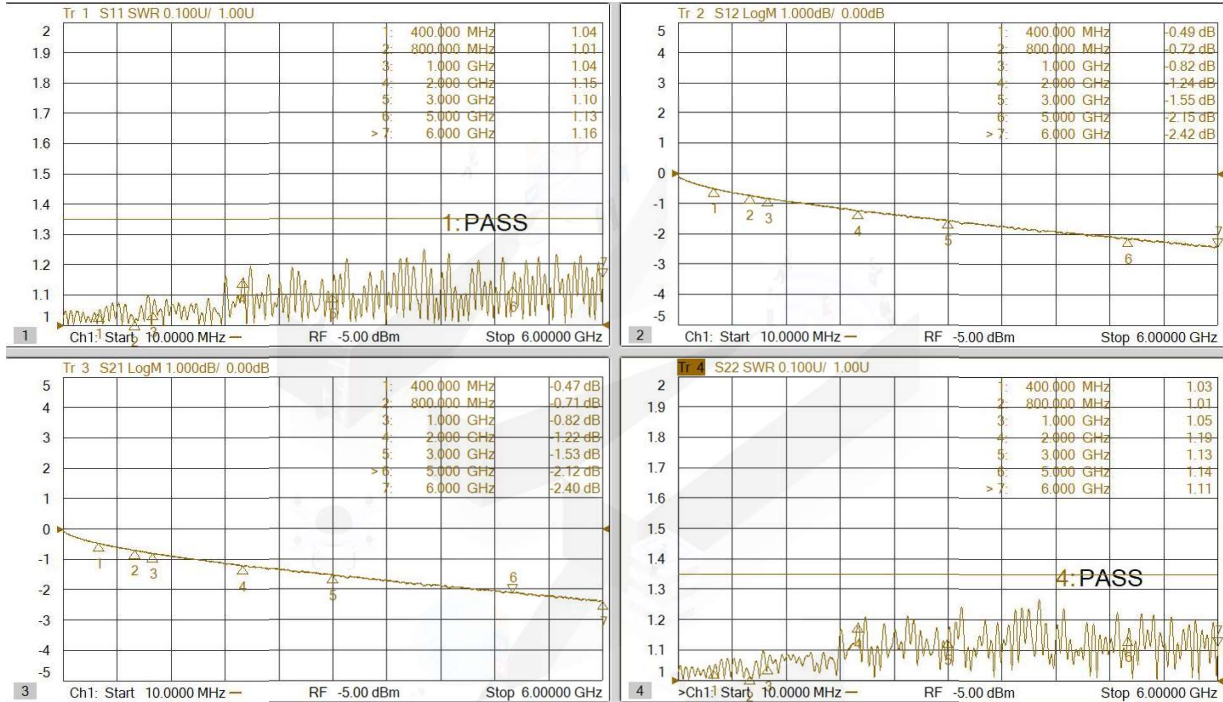
Tr4 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div





Typical Test Result

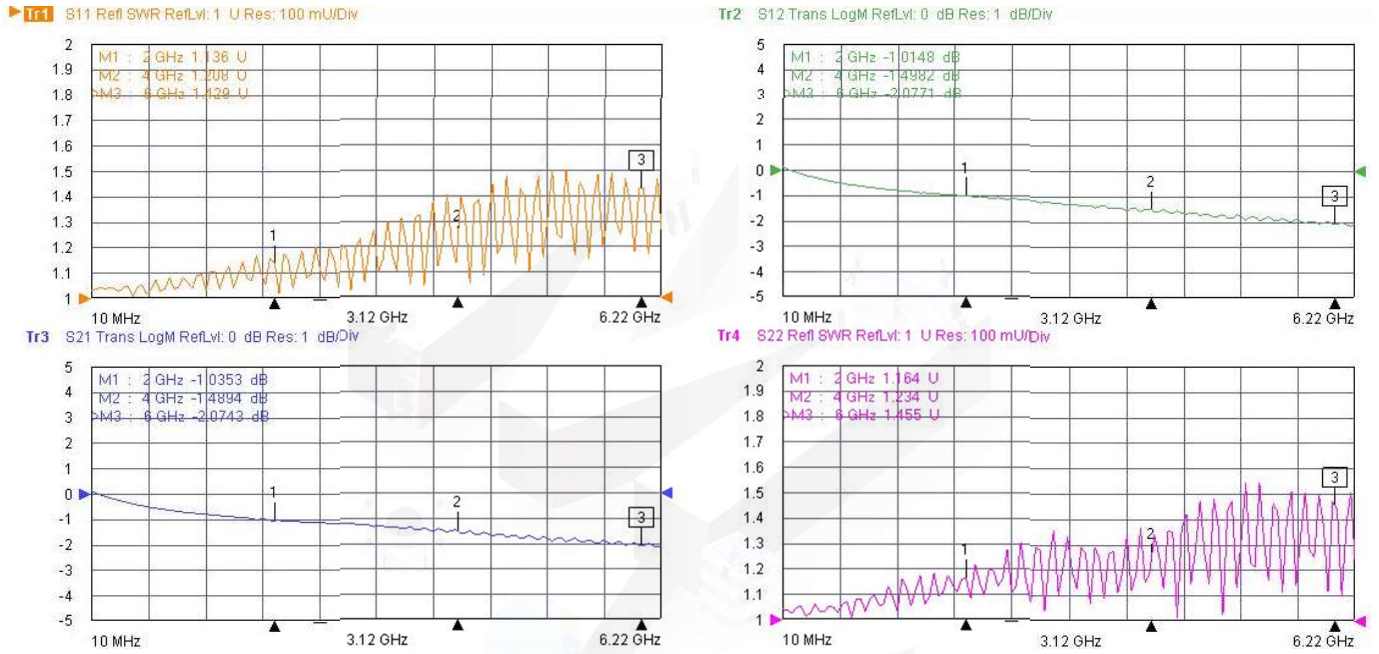
PART NUMBER	DESCRIPTION
280290.400A.160A	SMA Male To SMA Female, RG400/L:160cm/Brass Tubing





Typical Test Result

PART NUMBER	DESCRIPTION
282282.400A.150A	SMA Male R/A To SMA Male R/A, RG400/L:150cm/Brass Tubing





Typical Test Result

PART NUMBER	DESCRIPTION
320320.400A.150A	TNC Male To TNC Male, RG400/L:150cm/Brass Tubing

