



## Chinmore Industry Co., Ltd.

### RG178 Cable Specification

Technical data of product			
Type of cable	RG178		
Item	No	Material and size	
Inner conductor	Material	/	Silver plated copper wire
	Composition	Mm	7/0.102±0.02
	OD	Mm	Φ0.30
Insulation	Material	/	Teflon FEP(200 degrees of fluorinated ethylene propylene resin)
	Thickness	mm	0.275
	OD	mm	Φ0.85±0.05
	Color	/	Transparent color
Outer conductor	Material	/	Silver plated copper wire
	Form	/	Weave
	Density	%	92% (Coding 3*16/0.10)
	OD	mm	Φ1.25±0.05
Jacket	Material	/	Teflon FEP(200 degrees of fluorinated ethylene propylene resin)
	Thickness	mm	0.275
	OD	mm	Φ1.80±0.05
	Color of sheath	/	Transparent color or Brown transparent color(Can also be processed according to customer requirements)

## The cable properties

Test project		Standard value	Note
Rated temperature/voltage		-55°C~+200°C / 30V	/
Insulation resistance		3000MΩ . Km	Resistance tester
Conductor resistance		345 Ω/Km 20°C	/
Pressure		2KV	Withstand voltage tester
Insulation	Unaged	Tensile Strength	2500 PSI MIN(1.76Kg/mm <sup>2</sup> )
		Elongation	200% MIN
	Aged	Tensile Strength	2500 PSI*75%(168HRS/232°C)
		Elongation	200% MIN*75%(168HRS/232°C)
Jacket	Unaged	Tensile Strength	2500 PSI MIN(1.76Kg/mm <sup>2</sup> )
		Elongation	200% MIN
	Aged	Tensile Strength	2500 PSI*75%(168HRS/232°C)
		Elongation	200% MIN*75%(168HRS/232°C)
Characteristic Impedance		50±3Ω	
Capacitance		95.8 PF/M	
Velocity		69.5%	
Propagation Delay		4.8ns/m	
Shielding attenuation		100 dB	
Bending radius		<9mm	
Flame retardant		passed	
Operating temperature		-55°C~+200°C	
Working humidity		<90 %	

## Attenuation of cable

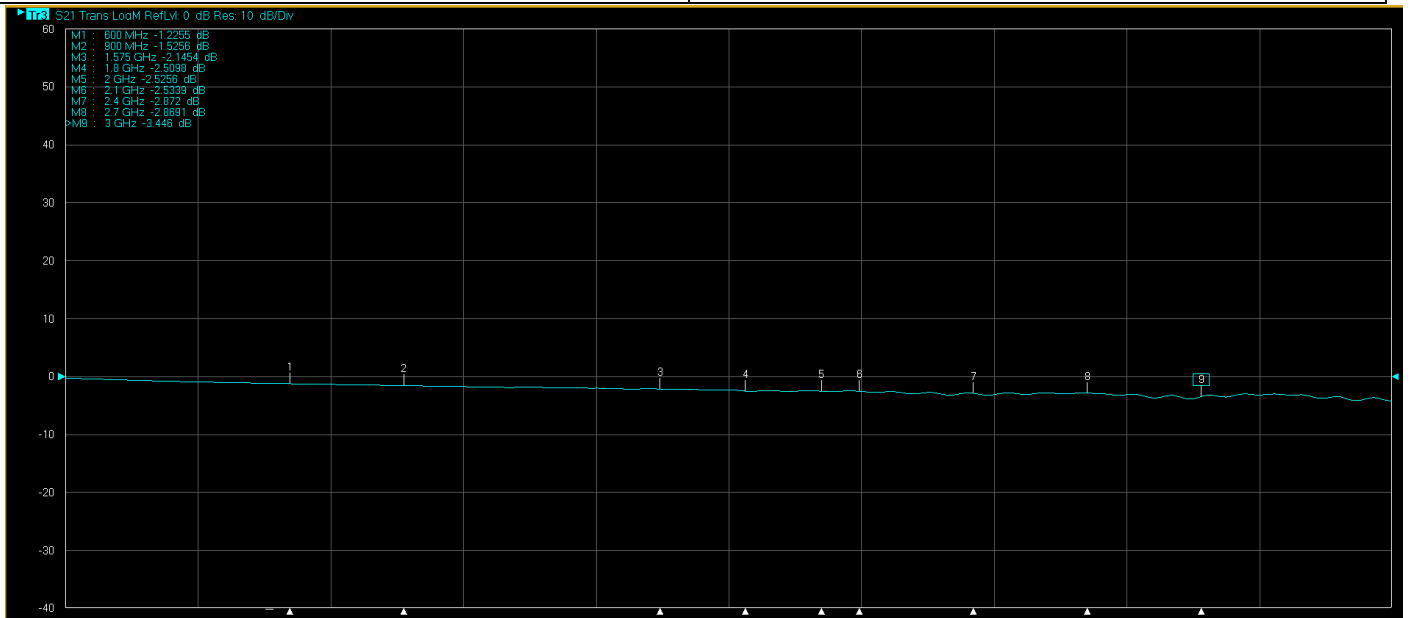
Frequency (MHz)	Attenuation(dB/1M)
600	-1.22
900	-1.52
1575	-2.14
1800	-2.50
2000	-2.52
2100	-2.53
2400	-2.87
2700	-2.86
3000	-3.44

V.S.W.R.

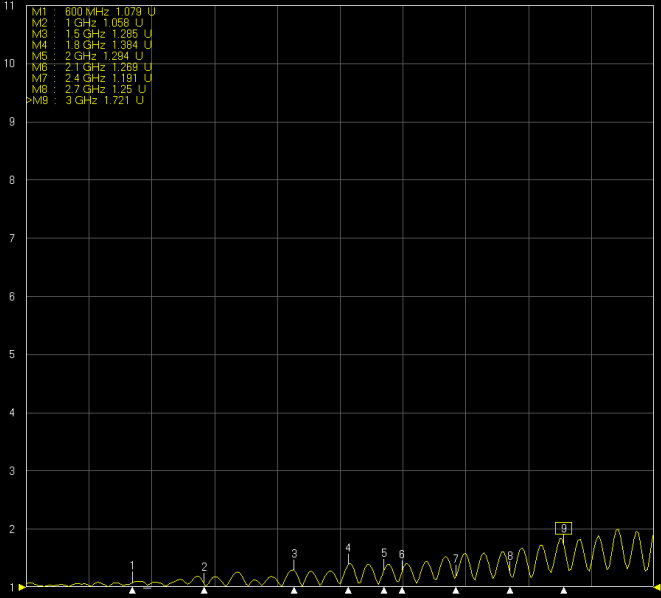
Frequency (MHz)	Attenuation(1M)
600	1.07
900	1.05
1575	1.28
1800	1.38
2000	1.29
2100	1.26
2400	1.19
2700	1.25
3000	1.72

Return Loss

Frequency (MHz)	Attenuation(dB/1M)
600	-1.27
900	-1.71
1575	-2.26
1800	-2.63
2000	-2.65
2100	-2.67
2400	-3.02
2700	-3.03
3000	-3.61



Tr1 S11 Refl SWR RefLvl: 1 U Res: 1 U/Dv



Tr2 S21 Trans LooM RefLvl: 0 dB Res: 10 dB/Dv

