

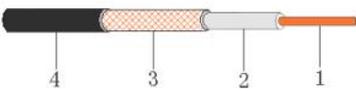
GLOBAL EAST ASIA(Hong Kong) TECHNOLOGY CO.,LTD

1. Product Specification

Product	Assembly cable
P/N	GLC8101
Connector	MCX female to MCX male
Cable	RG174-1m
Environmentally Friendly	ROHS Compliant
Temperature-°C	-40~+85
Humidity-%	5~95

2.RG174 cable

产品技术数据 Technical data of product

电缆名称 Name of cable	实芯聚乙烯绝缘同轴电缆 Solid polyethylene insulated coaxial cables			
电缆型号 Type of cable	RG174-80 铜	执行标准 Standar	MLL-C-17	
一、产品结构图 Structure diagram of product				
				
二、产品规格尺寸 Size of product [?] 识别图				
序号 No.	项目 Item	结构 Structure	材质 Material	颜色 Color
1	内导体 Inner conductor	7/0.16±0.01 mm	裸铜丝 Bare copper	黄色 Yellow
2	绝缘层 Insulation	1.52±0.10mm	聚乙烯 PE	白色 White
3	编织 Wire braid	80*0.10±0.01 mm	裸铜丝 Bare copper	黄色 Yellow
4	外护层 Jacket	2.80±0.10 mm	聚氯乙烯 PVC	黑色 Black
5	标志 Making	RG174 ROHS		
三、产品物理电气性能 Electrical physical and properties of product				
项目 Item	单位 Unit	典型值 Value		
电容 Capacitance	pF/m	100±5		
阻抗 Impedance	Ω	50±2		
速率 Velocity ratio	%	66		
弯曲半径 Bent radius	mm	14		
最大工作电压 Max voltage	VMS	1500		
最大工作频率 Max Frequency	MHz	3000		
温度范围 Temperature scope	°C	-20 ~ +80		
20°C时最大衰减 Attenuation constant at 20°C (Max.)	200MHz	dB/100m	39	
	400MHz	dB/100m	58	
	900MHz	dB/100m	90	
	1500MHz	dB/100m	117	
	1800MHz	dB/100m	128	
	2000MHz	dB/100m	139	
	2500MHz	dB/100m	156	

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2. MCX male

Technical drawing of MCX male connector. The main cross-section shows a ferrule (1) with a diameter of $\phi 3.7$ and a length of 4.2, a body (3) with a diameter of $\phi 2.7$ and a length of 5.5, and a pin (2) with a diameter of $\phi 1.3$ and a length of 7.9. The total length is 15.7. A detail view shows the ferrule with a diameter of $\phi 3.9 \pm 0.1$ and a length of 9.0. The drawing is labeled with 1, 2, 3, and 4.

		Durability(mating)		≥ 500 (cycles)	REMARKS:	REV:	A1	TITLE:			
		VSWR		≤ 1.25		DESIGNED:	Cary	MCX Male ST for RG174 Cable			
		Withstand Voltage		1000V rms		DRAWN:	Cary	ASSEMBLY DRAWING	SCALE:	FIT	
		Working Voltage		335V max		CHECKED:	XXXX	DWG NO.	SHEET SIZE	A4	
4	Ferrule	Brass / nickel plated	1 PCS	Frequency Range	0~6GHz	APPROVAL:	XXXX	DATE	2026/03/06	UNITS	mm
3	Body	Brass / Gold plated	1 PCS	Impedance	50 Ω						
2	Pin	Brass / Gold plated	1 PCS	Temp.range	-65~+165 $^{\circ}$ C						
1	Insulator	PTFE	1 PCS	Performs	Parameter						
ITEM MATERIALS			QTY								
REVISIONS											

3. MCX female

Technical drawing of MCX female connector. The main cross-section shows a ferrule (1) with a diameter of $\phi 2.7$ and a length of 5.5, a body (3) with a diameter of $\phi 5.1$ and a length of 8.7, and a pin (2) with a diameter of $\phi 3.7$ and a length of 4.2. The total length is 16.7. A detail view shows the ferrule with a diameter of $\phi 3.2$ and a length of 9.0. The drawing is labeled with 1, 2, 3, and 4.

		Durability(mating)		≥ 500 (cycles)	REMARKS:	REV:	A1	TITLE:			
		VSWR		≤ 1.25		DESIGNED:	Cary	MCX Female ST for RG174 Cable			
		Withstand Voltage		1000V rms		DRAWN:	Cary	ASSEMBLY DRAWING	SCALE:	FIT	
		Working Voltage		335V max		CHECKED:	XXXX	DWG NO.	SHEET SIZE	A4	
4	Ferrule	Brass / nickel plated	1 PCS	Frequency Range	0~6GHz	APPROVAL:	XXXX	DATE	2026/03/06	UNITS	mm
3	Body	Brass / Gold plated	1 PCS	Impedance	50 Ω						
2	Pin	Brass / Gold plated	1 PCS	Temp.range	-65~+165 $^{\circ}$ C						
1	Insulator	PTFE	1 PCS	Performs	Parameter						
ITEM MATERIALS			QTY								
REVISIONS											

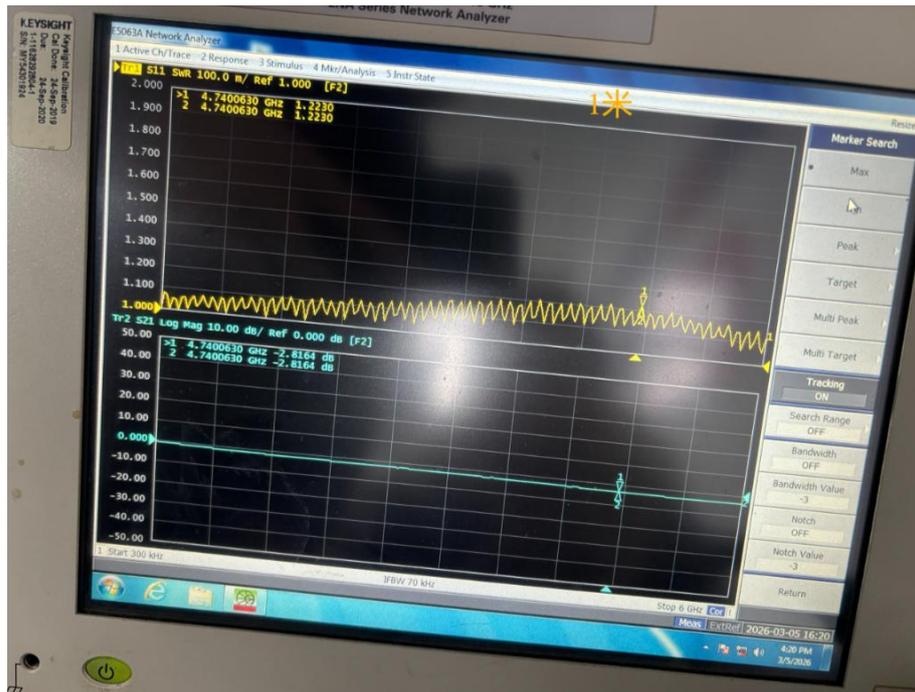
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3. Testing VSWR and S21 between 0-6GHz



4. RG174 tensile strength: 17KGS

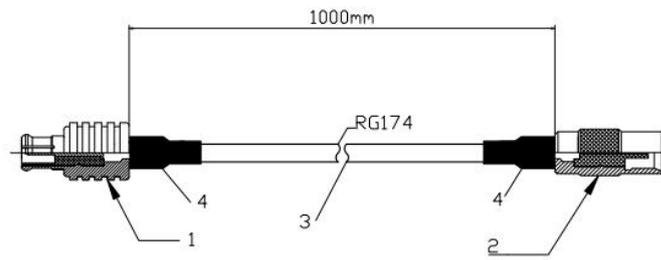


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5. Drawing for whole cable



1. MCX Male Crimp RG174 Cable Connector,Au
2. MCX Female Crimp RG174 Cable Connector,Au
3. RG174 Coaxial Cable/Black
4. Heat Shrink / PVC

Durability	≥500 (cycles)	NO	QTY	NAME	PART'S NO.	DESCRIPTION	REMARK
VSWR	≤1.30±0.002F	THIRD ANGLE PROJECTION		DRAWING SYMBOL			
Withstand Voltage	1000V rms	THIRD ANGLE PROJECTION		DRAWING SYMBOL			
Working Voltage	335V max	THIRD ANGLE PROJECTION		DRAWING SYMBOL			
Frequency Range	0~6GHz	No dedicated phase X ±0.0		CUSTOMER: /			
Impedance	50 Ω	One dedicated phase X ±1.0		PART NAME: MCXm-MCXf-RG174 Coaxial Cable,L=1m			
Temp.range	-65~+155℃	Two dedicated phase XX ±0.5		mm: A4 / mm			
Property	Parameter	Diameter XX N/A		mm: I : I			
		Angle ±1.0°		mm: I : I			

6. Product Outline



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