

RG316D

Low Cost

Features:

* Low Cost

Applications:

* Telecom

* Interconnect between equipment

Electrical

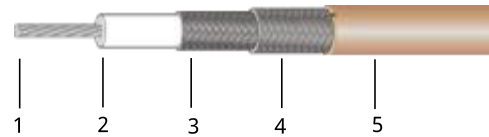
Frequency:	DC~6GHz
Impedance:	50±2Ω
Velocity of Propagation:	70%
VSWR:	1.20 max. @DC~3GHz
Voltage Withstand:	1200V DC
Capacitance:	95pF/m

Mechanical

Bend Radius(installation):	15mm min.
Bend Radius(repeated):	50mm min.

Environmental

Temperature:	-55~+200°C
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Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	0.51	Silverplated copper Wire
2	Dielectric	1.52	PTFE
3	Outer Conductor1	1.95	Silverplated copper Wire
4	Outer Conductor2	2.4	Silverplated copper Wire
5	Jacket	2.9	FEP

Attenuation

Frequency (GHz)	0.1	0.4	1	3	5	6
Attenuation(dB/100m)	26.2	53.1	85.6	153.2	208	226

Calculate Cable Attenuation: Attenuation (dB/100m) = $2.577759 * \sqrt{F} \text{ (MHz)} + 0.004024 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$
How To Order
RG316D-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a RG316D cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RG316D-3-SSF-0.8.

Connector naming rules:

S - SMA (6GHz, VSWR 1.4)

X - MMCX (6GHz, VSWR 1.4)

M - MCX (6GHz, VSWR 1.4)

B - BNC (4GHz, VSWR 1.4)

D - SMB (4GHz, VSWR 1.4)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)

Mating Connector

QCG-FB-086-1

SSMP female, Beryllium copper



QCG-FRB-086-2

SSMP female, Right angle, Beryllium copper



QCK-MG-086-3

2.92mm male, Stainless steel



QCK-FB-086-1

2.92mm female, Brass



QCK-FL2G-A220-1

2.92mm female, 2-hole flange mount, Stainless steel

QCK-FL4G-A220-1

2.92mm female, 4-hole flange mount, Stainless steel

QCP-FB-086-3

SMP female, Beryllium copper

QCP-FRB-086-1

SMP female right angle, Beryllium copper



QCP-FRB-086-2

SMP female right angle, Beryllium copper



QCA-MG-086-2

SSMA male, Stainless steel

QCA-FHB-086-1

SSMA female bulk head, Brass

QCS-FL2B-086-1

SMA female, 2-hole flange mount, Brass

QCS-FL4B-086-1

SMA female, 4-hole flange mount, Gold plated beryllium copper

QCS-FHB-086-2

SMA female bulk head, Gold plated brass



QCN-MB-086-1

N male, Nickel plated brass



QCN-FB-086-1

N female, Nickel plated brass



QCX-MB-086-1

MMCX male, Gold plated brass



QCX-MRB-086-1

MMCX male right angle, Gold plated brass



QCX-FB-086-1

MMCX female, Gold plated brass

QCM-MB-086-1

MCX male, Gold plated brass



QCM-MRB-086-2

MCX male right angle, Gold plated brass/beryllium copper



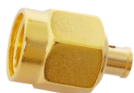
QCM-FB-086-1

MCX female, Gold plated brass

Flexible RF Cables & Assemblies

QCS-MB-086-4

SMA male, Gold plated
brass

**QCS-MG-086-3**

SMA male, Stainless steel

**QCS-MRG-086-1**

SMA male right angle,
Stainless steel

**QCS-MRB-086-1**

SMA male right angle, Gold
plated brass

**QCS-FB-086-2**

SMA female, Gold plated
brass

**QCB-MB-086-1**

BNC male, Ternary alloy
plated brass

**QCD-MB-086-1**

SMB male, Gold plated
brass

QCD-MRB-086-1

SMB male right angle, Gold
plated brass

QCD-FB-086-1

SMB female, Gold plated
brass

QCD-FRB-086-1

SMB female right angle,
Gold plated brass