

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

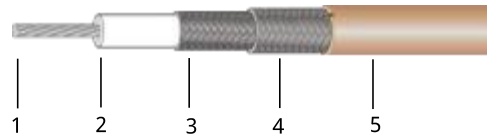
Mechanical

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

NCG-FCB-RG316-1

SSMP female, Beryllium copper, Crimp



PCG-FCB-RGHF-1

SSMP female, Right angle, Beryllium copper, Crimp



NCK-MG-RGHF-3

2.92mm male, Stainless steel



NCK-FCB-RGHF-1

2.92mm female, Brass, Crimp



NCK-FL2G-RGHF-1

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

NCK-FL4G-RGHF-1

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

NCP-FCB-RGHF-3

SMP female, Beryllium copper, Crimp

NCP-FRCB-RGHF-1

SMP female right angle, Beryllium copper, Crimp



NCP-FRCB-RGHF-2

SMP female right angle, Beryllium copper, Crimp



NCA-MG-RGHF-2

SSMA male, Stainless steel

NCA-FHCB-RGHF-1

SSMA female bulk head, Brass, Crimp

NCS-FL2CB-RGHF-1

SMA female, 2-hole flange mount, Brass, Crimp

PCS-FL4CB-RGHF-1

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

NCS-FHCB-RGHF-2

SMA female bulk head, Gold plated brass, Crimp



NCN-MCB-RGHF-1

N male, Nickel plated brass, Crimp



NCN-FCB-RGHF-1

N female, Nickel plated brass, Crimp



NCX-MCB-RGHF-1

MMCX male, Gold plated brass, Crimp



NCX-MRCB-RGHF-1

MMCX male right angle, Gold plated brass, Crimp



NCX-FCB-RGHF-1

MMCX female, Gold plated brass, Crimp

NCM-MCB-RGHF-1

MCX male, Gold plated brass, Crimp



NCM-MRCB-RGHF-2

MCX male right angle, Gold plated brass / beryllium copper, Crimp



NCM-FCB-RGHF-1

MCX female, Gold plated brass, Crimp

Flexible RF Cables & Assemblies

PCS-MCB-RGHF-1

SMA male, Gold plated brass, Crimp



PCS-MG-RGHF-1

SMA male, Stainless steel



PCS-MRG-RGHF-1

SMA male right angle, Stainless steel



PCS-MRCB-RGHF-1

SMA male right angle, Gold plated brass, Crimp



NCS-FCB-RGHF-2

SMA female, Gold plated brass, Crimp



PCS-RPMC-RGHF-1

SMA male, Gold plated brass, Crimp



PCB-MCB-RGHF-1

BNC male, Ternary alloy plated brass, Crimp



PCO-MCB-RGHF-1

SMB male, Gold plated brass, Crimp

PCO-MRCB-RGHF-1

SMB male right angle, Gold plated brass, Crimp

PCO-FCB-RGHF-1

SMB female, Gold plated brass, Crimp

NCD-FRCB-RGHF-1

SMB female right angle, Gold plated brass, Crimp