

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 |

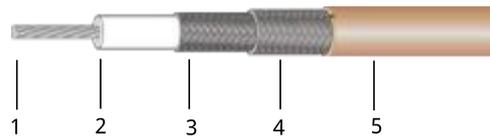
Mechanical

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

Environmental

Temperature: -55~+200°C

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



NCG-FRCB-RGHF1-3

SSMP female, Right angle, Beryllium copper, Crimp



NCK-MG-RGHF1-3

2.92mm male, Stainless steel



NCK-FCB-RGHF1-1

2.92mm female, Brass, Crimp



NCK-FL2G-RGHF1-1

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

NCK-FL4G-RGHF1-1

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

NCP-FCB-RGHF1-3

SMP female, Beryllium copper, Crimp

NCP-FRCB-RGHF1-1

SMP female right angle, Beryllium copper, Crimp



NCP-FRCB-RGHF1-2

SMP female right angle, Beryllium copper, Crimp



NCA-MG-RGHF1-2

SSMA male, Stainless steel

NCA-FHCB-RGHF1-1

SSMA female bulk head, Brass, Crimp

NCS-FL2CB-RGHF1-1

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

NCS-FL4CB-RGHF1-1

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

NCS-FHCB-RGHF1-2

SMA female bulk head, Gold plated brass, Crimp



NCN-MCB-RGHF1-1

N male, Nickel plated brass, Crimp



NCN-FCB-RGHF1-1

N female, Nickel plated brass, Crimp



NCX-MCB-RGHF1-1

MMCX male, Gold plated brass, Crimp



NCX-MRCB-RGHF1-1

MMCX male right angle, Gold plated brass, Crimp



NCX-FCB-RGHF1-1

MMCX female, Gold plated brass, Crimp

NCM-MCB-RGHF1-1

MCX male, Gold plated brass, Crimp



NCM-MRCB-RGHF1-2

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



NCM-FCB-RGHF1-1

MCX female, Gold plated brass, Crimp

Flexible RF Cables & Assemblies

PCS-MC-BRGHFI-2

SMA male, Gold plated brass, Crimp



PCB-MC-BRGHFI-2

BNC male, Ternary alloy plated brass, Crimp



PCS-MG-BRGHFI-2

SMA male, Stainless steel



PCO-MC-BRGHFI-2

SMB male, Gold plated brass, Crimp

PCS-MRG-BRGHFI-2

SMA male right angle, Stainless steel



PCO-MRC-BRGHFI-2

SMB male right angle, Gold plated brass, Crimp

PCS-MRC-BRGHFI-2

SMA male right angle, Gold plated brass, Crimp



PCO-MC-BRGHFI-2

SMB female, Gold plated brass, Crimp

NCS-FCB-RGHFI-2

SMA female, Gold plated brass, Crimp



NCD-FRCB-RGHFI-1

SMB female right angle, Gold plated brass, Crimp

PCS-RPMC-BRGHFI-2

SMA male, Gold plated brass, Crimp

