# R2-BNCMBNCM-L

## R Series Semi-flexible Cable Assemblies

### R2/BNC Male /BNC Male/DC-3 GHz

### Features:

- Max Frequency 3 GHz
- VSWR max of 1.30
- Velocity of Propagation of 70%

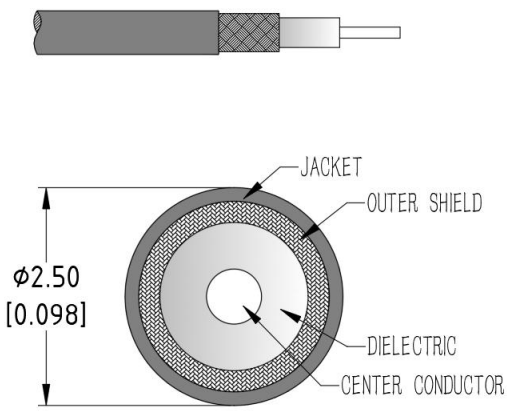
### Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | 1.25 | 1.3 | :1 |
| Velocity of propagation | | 70% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | | 81 | pF/m |

### Cable Cross Section:




### Envrionmental And Physical Characteristics:

| Description | Parameter | Units |
|---|---|---|
| Cable Diameter | 2.5 | mm |
| Cable Jacket | FEP | |
| Min. Bending Radius | 11 | mm |
| Typical Flex life | 50000 | |
| Operating Temerature | -55 to +125 | ℃ |
| Storage Temerature | -55 to +165 | ℃ |

### Cable Performance By Frequency

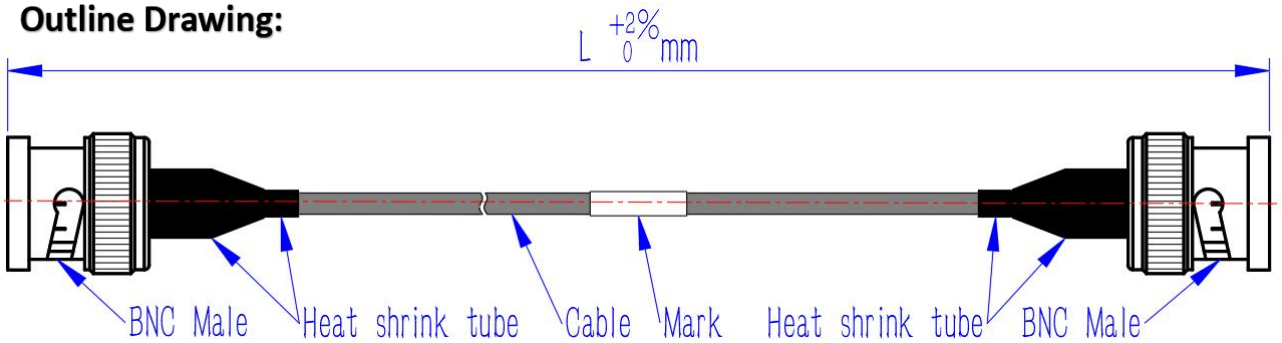
| Frequency | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 12 GHz | 16 GHz | 18 GHz |
|---|---|---|---|---|---|---|---|
| Insertion Loss (dB/m Max ) | 1.00 | 1.46 | 1.84 | 2.16 | 2.74 | 3.24 | 3.48 |
| RF Power CW (W Max.) | 69 | 47 | 38 | 32 | 25 | 21 | 20 |

# R2-BNCMBNCM-L

## Connectors:

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | BNC Straight Male | BNC Straight Male |
| Contact Matericl And Plating | Brass,Gold | Brass,Gold |
| Dielectric Type | PTFE | PTFE |
| Body Matericl And Plating | Beryllium Copper&Brass,Nikel | Beryllium Copper&Brass,Nikel |
| Insertion Loss (dB Max) | 0.05*Sqrt(f_GHz) | 0.05*Sqrt(f_GHz) |

## Outline Drawing:




## Ordering Information:

| Base Number | Lenth (Unit meters) | Phase/delay Matched |
|---|---|---|
| **R2-BNCMBNCM** | **-L** | **LEAVE BLANK**(NOT REQUIRED)<br>**-XXPS**(≤±XX PS)<br>**-XX°**(±XX°) |

## Typical Performance Data:

**Model:R2-BNCMBNCM-1m**

| Frequency | 0.5 GHz | | 1 GHz | | 2 GHz | | 3 GHz | |
|---|---|---|---|---|---|---|---|---|
| | Typ | Max | Typ | Max | Typ | Max | Typ | Max |
| Insertion Loss （dB） | 0.52 | 0.55 | 0.74 | 0.79 | 1.07 | 1.14 | 1.34 | 1.42 |
| VSWR | 1.05 | 1.1 | 1.15 | 1.20 | 1.20 | 1.25 | 1.25 | 1.30 |