

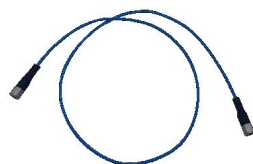
## Ultra Low Loss Phase Stable Flexible Cable

A12/0.8 Male /0.8 Male/DC-145 GHz

Model: A12-0.8M0.8M-L

### Features:

- Max Frequency 145 GHz
- VSWR:1.40 Typ
- Velocity of Propagation of 76%



**A12-0.8M0.8M-L**  
(WITHOUT ARMOR)



**A12-0.8M0.8M-L-A**  
(WITH 4.8MM  
DIAMETER ARMOR)

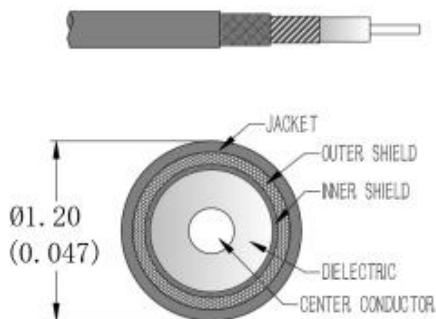
### Applications:

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

### Electrical Characteristics:

| Parameter               | Min | Typ  | Max  | Units |
|-------------------------|-----|------|------|-------|
| Frequency Range         | DC  |      | 145  | GHz   |
| VSWR                    |     | 1.40 | 1.80 | :1    |
| Velocity of propagation |     | 76%  |      |       |
| Shielding Effectiveness | 90  |      |      | dB    |
| Capacitance             |     |      | 81   | pF/m  |
|                         |     |      |      |       |
|                         |     |      |      |       |

### Cable Cross Section:



### Envrionmental And Physical Characteristics:

| Description           | Parameter   | Units |
|-----------------------|-------------|-------|
| Cable Diameter        | 1.20        | mm    |
| Cable Jacket          | FEP         |       |
| Min. Bending Radius   | 6           | mm    |
| Typical Flex life     | 50000       |       |
| Operating Temperature | -55 to +165 | °C    |
| Storage Temperature   | -10 to +30  | °C    |

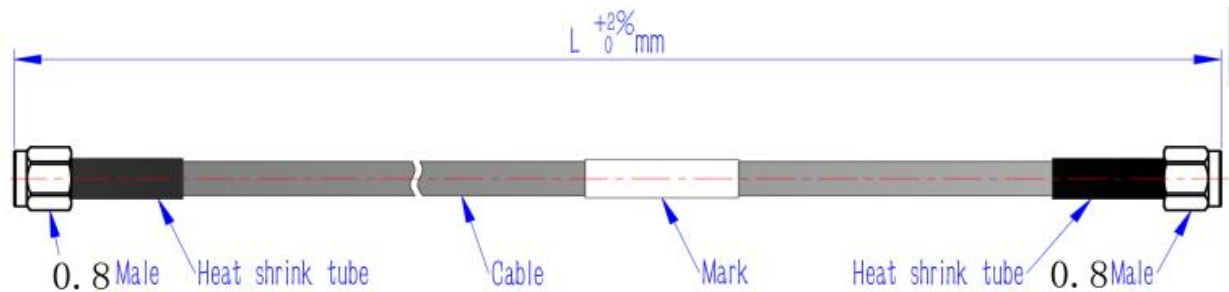
### Cable Performance By Frequency

| Frequency                  | 1 GHz | 2 GHz | 4 GHz | 8 GHz | 18 GHz | 26.5 GHz | 40 GHz | 50GHz | 67 GHz | 110GHz | 150GHz |
|----------------------------|-------|-------|-------|-------|--------|----------|--------|-------|--------|--------|--------|
| Insertion Loss (dB/m Max ) | 1.57  | 2.23  | 3.16  | 4.49  | 6.78   | 8.27     | 10.23  | 11.48 | 13.37  | 17.35  | 20.46  |
| RF Power CW (W Max.)       | 23    | 16    | 12    | 8     | 5      | 4        | 4      | 3     | 3      | 2      | 2      |

### Connectors:

| Description                  | Connector 1                | Connector 2                |
|------------------------------|----------------------------|----------------------------|
| Type                         | 0.8mm Straight Male        | 0.8mm Straight Male        |
| Contact Material And Plating | Beryllium Copper,Gold      | Beryllium Copper,Gold      |
| Dielectric Type              | PEI                        | PEI                        |
| Body Material And Plating    | Passivated Stainless Steel | Passivated Stainless Steel |
| Insertion Loss (dB Max)      | $0.06 * \sqrt{f\_GHz}$     | $0.06 * \sqrt{f\_GHz}$     |

### Outline Drawing:



### Ordering Information:

| Base Number  | Lenth<br>(Unit meters) | Armour                                      |  |
|--------------|------------------------|---------------------------------------------|--|
| A12-0.8M0.8M | -L                     | LEAVE BLANK(NOT REQUIRED)<br>-A(with Armor) |  |