

Flexible Ultra Low Loss Coax Cable Assembly

A22/2.92mm Male /2.92mm Male/DC-40 GHz

Model: A22-2.92M2.92M-L



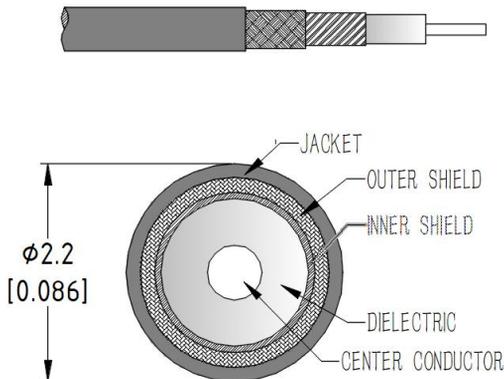
Features:

- Max Frequency 40 GHz
- VSWR max of 1.30
- Velocity of Propagation of 82%

Applications:

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

Cable Cross Section:



Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---------------------------------------|-----|------------|-----|------------|
| Frequency Range | DC | | 40 | GHz |
| VSWR | | 1.25 | 1.3 | :1 |
| Velocity of propagation | | 82% | | |
| Shielding Effectiveness | 90 | | | dB |
| Capacitance | | | 81 | pF/m |
| Phase Stability Vs. Flexure@40GHz | | ± 3 | | $^{\circ}$ |
| Amplitude Stability Vs. Flexure@40GHz | | ± 0.03 | | dB |
| Phase Stability Vs. Temperature | | | 550 | PPM |

Environmental And Physical Characteristics:

| Description | Parameter | Units |
|-----------------------|-------------|--------------------|
| Cable Diameter | 2.2 | mm |
| Cable Jacket | FEP | |
| Min. Bending Radius | 11 | mm |
| Typical Flex life | 50000 | |
| Operating Temperature | -55 to +125 | $^{\circ}\text{C}$ |
| Storage Temperature | -55 to +165 | $^{\circ}\text{C}$ |

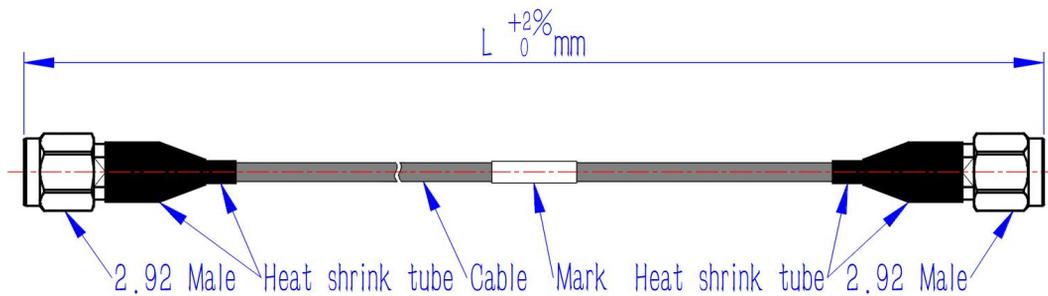
Cable Performance By Frequency

| Frequency | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 12 GHz | 18 GHz | 26.5 GHz | 40GHz |
|-----------|-------|-------|-------|-------|--------|--------|----------|-------|
| | | | | | | | | |

Connectors:

| Description | Connector 1 | Connector 2 |
|------------------------------|----------------------------|----------------------------|
| Type | 2.92mm Straight Male | 2.92mm 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) | $0.05 * \sqrt{f_GHz}$ | $0.05 * \sqrt{f_GHz}$ |

Outline Drawing:



Ordering Information:

| Base Number | Lenth | Armour (optional) | Phase/delay Matched (optional) |
|--------------------|-------|--|--------------------------------|
| A22- 2.92M2.92M | -L | -A(Black nylon woven armor)  | |
| | | -AP(PUR water proof armor)  | -XXPS($\leq \pm XX$ PS) |
| | | -AS(Stainless steel armor)  | -XX°($\pm XX$ °) |
| | | -AT(Transparent armor)  | |

Typical Performance Data:

Model:A22-2.92M2.92M-1m

| Frequency | 2 GHz | | 6 GHz | | 12 GHz | | 18 GHz | | 26.5 GHz | | 40GHz | |
|----------------|-------|------|-------|------|--------|------|--------|------|----------|------|-------|------|
| | Typ | Max | Typ | Max | Typ | Max | Typ | Max | Typ | Max | Typ | Max |
| Insertion Loss | 0.98 | 1.05 | 1.73 | 1.85 | 2.48 | 2.66 | 3.08 | 3.29 | 3.80 | 4.05 | 4.76 | 5.07 |
| VSWR | 1.03 | 1.05 | 1.05 | 1.10 | 1.10 | 1.15 | 1.15 | 1.20 | 1.20 | 1.25 | 1.25 | 1.30 |

