



# A40-2.92M2.92WM-L

## Flexible Ultra Low Loss Coax Cable Assembly

A40/2.92 Male / 2.92 Right Angle Male/DC-40 GHz



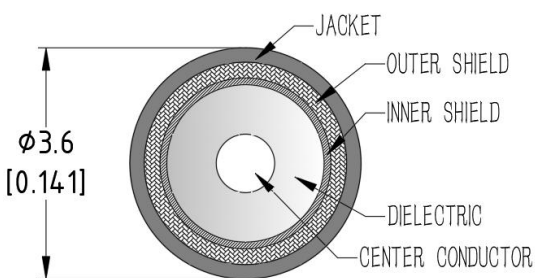
### Features:

- 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     |     | ±5    | ±8    | °     |
| Amplitude Stability Vs. Flexure |     | ±0.08 | ±0.15 | dB    |
| Phase Stability Vs. Temperature |     |       | 550   | PPM   |

### Environmental And Physical Characteristics:

| Description           | Parameter   | Units |
|-----------------------|-------------|-------|
| Cable Diameter        | 3.6         | mm    |
| Cable Jacket          | FEP         |       |
| Min. Bending Radius   | 18          | mm    |
| Typical Flex life     | 50000       |       |
| Operating Temperature | -55 to +125 | °C    |
| Storage Temperature   | -55 to +125 | °C    |

### Cable Performance By Frequency

| Frequency                  | 2 GHz | 4 GHz | 6 GHz | 8 GHz | 10 GHz | 12 GHz | 16 GHz | 18 GHz | 26.5 GHz | 40GHz |
|----------------------------|-------|-------|-------|-------|--------|--------|--------|--------|----------|-------|
| Insertion Loss (dB/m Max ) | 0.53  | 0.76  | 0.94  | 1.09  | 1.22   | 1.35   | 1.57   | 1.67   | 2.05     | 2.56  |
| RF Power CW (W Max.)       | 359   | 255   | 204   | 176   | 157    | 142    | 122    | 115    | 94       | 75    |

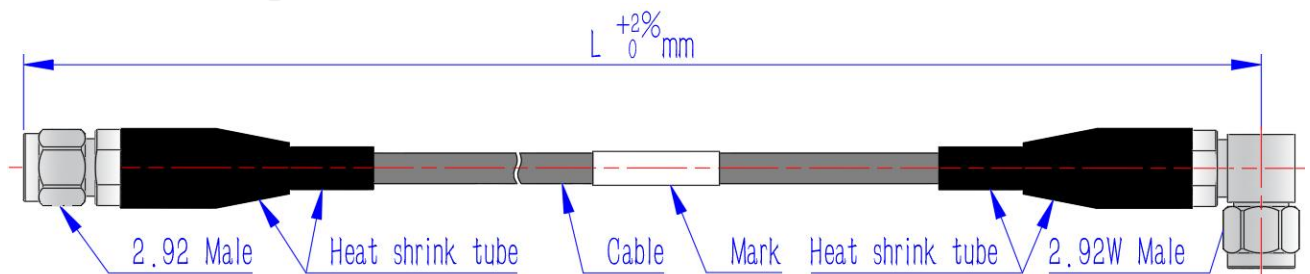


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## Connectors:

| Description                  | Connector 1                | Connector 2                |
|------------------------------|----------------------------|----------------------------|
| Type                         | 2.92mm Straight Male       | 2.92mm Right Angle 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)      | $0.05 * \sqrt{f\_GHz}$     | $0.07 * \sqrt{f\_GHz}$     |

## Outline Drawing:



## Ordering Information:

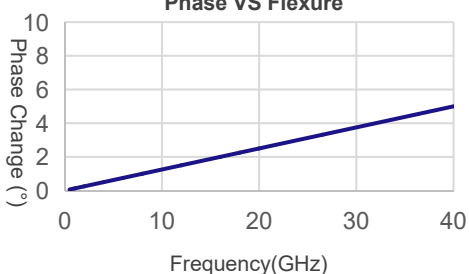
| Base Number     | Lenth (Unit meters) | Armour  | Phase/delay Matched  |
|-----------------|---------------------|---|--|
| A40-2.92M2.92WM | -L                  | <b>LEAVE BLANK(NOT REQUIRED)</b><br>-A(默认黑色尼龙铠甲)<br>-AS(不锈钢铠甲)<br>-AP(PUR防水铠甲)<br>-AT(透明铠甲) | <b>LEAVE BLANK(NOT REQUIRED)</b><br>-XXPS( $\leq \pm XX$ PS)<br>-XX°( $\pm XX^\circ$ ) |

## Typical Performance Data:

Model:A40-2.92M2.92WM-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 | 0.60  | 0.67 | 1.06  | 1.18 | 1.52   | 1.69 | 1.88   | 2.09 | 2.09     | 2.35 | 2.60  | 2.87 |
| VSWR           | 1.05  | 1.1  | 1.08  | 1.15 | 1.1    | 1.2  | 1.2    | 1.3  | 1.2      | 1.3  | 1.25  | 1.3  |

A40  
Phase VS Flexure



A40-2.92M2.92WM-1m  
INSERTION LOSS

