

## SMA M CRIMP for BT3002 Cable

P/N: AT3S5D-6S

### Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Crimp
- Cable : BT3002
- Application : General Purpose/Telecom etc

The **SMA Male Crimp Connector for BT3002 coaxial cable** is a precision RF connector engineered to interface seamlessly with high-performance digital telecom cabling. Delivering excellent electrical performance and low signal loss up to 6 GHz, its robust crimp termination provides a highly stable, vibration-resistant mechanical bond. BT3002 is widely recognized for its high-density shielding in central offices and exchange systems. Consequently, this connector is **primarily used for interconnecting digital telephone exchange transmission systems, central office telecom infrastructure, networking equipment racks, and data distribution frames** where reliable, low-attenuation signal routing is vital.



### Electrical Specifications

| Parameter                       | Value       | Unit                 |
|---------------------------------|-------------|----------------------|
| Characteristic Impedance        | 75          | $\Omega$             |
| Frequency Range                 | DC ~ 6      | GHz                  |
| VSWR                            | $\leq 1.15$ | @DC-3 GHz            |
|                                 | $\leq 1.25$ | @3-5 GHz             |
| Insertion Loss                  | $\leq 0.2$  | @DC-4 GHz            |
| Insulation Resistance           | $\geq 5000$ | M $\Omega$           |
| Dielectric Withstanding Voltage | $\geq 1.0$  | kVrms (at sea level) |
| Inner Conductor Resistance      | $\leq 3.0$  | m $\Omega$           |
| Outer Conductor Resistance      | $\leq 2.0$  | m $\Omega$           |
| Power Handling                  | 350         | W @1GHz              |
| RF Leakage                      | $\leq -60$  | dB @1GHz             |



## Technical Data Sheet

| <b>Material &amp; Plating</b> |                 |                |
|-------------------------------|-----------------|----------------|
| <b>Component</b>              | <b>Material</b> | <b>Plating</b> |
| Center Conductor              | Brass           | Gold           |
| Outer Conductor/Body          | Brass           | Gold/ Nickel   |
| Coupling Nut                  | Brass           | Gold/ Nickel   |
| Ferrule                       | Copper Alloy    | Nickel         |
| Dielectric                    | Teflon/PTFE     | -              |
| Gasket                        | Silicone rubber | -              |

| <b>Mechanical &amp; Environmental Specifications</b> |              |             |
|--|--------------|-------------|
| <b>Parameter</b>                                     | <b>Value</b> | <b>Unit</b> |
| Durability (Matings)                                 | ≥ 500 min.   | -           |
| Fastening Type                                       | 1/4-36       | -           |
| Contact Captivation                                  | ≥ 27         | N           |
| Coupling Nut Retention Force                         | ≥ 270        | N           |
| Cable Type Compatibility                             | BT3002 Cable | -           |
| Operating Temperature                                | -50 ~ 125    | °C          |
| Compliance   | ROHS         | -           |