

# TA150

## Low Loss Phase Stable Cable Assembly DC~40GHz



### Features

- Low Loss
- High Phase Stability
- Excellent Performance
- Well Durability
- Suitable for All Kinds of Harsh Environment

### Applications

- Laboratory
- Wireless Communications
- Phased Array Radar
- Avionics

### Specifications

#### Electrical

|                         |                      |
|-------------------------|----------------------|
| Operating Frequency     | DC~40GHz             |
| Cutoff Frequency        | 128GHz               |
| Impedance               | 50Ω                  |
| Velocity of Propagation | 75%                  |
| Screening Effectiveness | 90dB min             |
| PIM                     | -155dBc              |
| Voltage Rating          | 400V, DC             |
| Phase Stability         | <1000ppm@-55°C~+85°C |

#### Environmental & Mechanical

|                             |              |
|-----------------------------|--------------|
| Operating Temperature       | -55°C~+125°C |
| Min Bending Radius/Single   | 8.00 mm      |
| Min Bending Radius/Repeated | 15.00 mm     |
| Weight                      | 5.4g/m       |

#### Attenuation@25°C & Power@40°C(sea level)

| Frequency(GHz)       | 1     | 2     | 3     | 6     | 8   | 10  | 12.4  | 18    | 26.5  | 40    |
|----------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|
| Attenuation(dB/100m) | 113.7 | 161.6 | 198.5 | 282.9 | 328 | 368 | 411.3 | 499.3 | 611.5 | 760.4 |
| Average Power(W)     | 39    | 27    | 22    | 16    | 14  | 12  | 11    | 9     | 7     | 6     |

#### Construction

|                 |                            |         |
|-----------------|----------------------------|---------|
| Inner Conductor | Solid Silver-plated Copper | 0.30 mm |
| Dielectric      | Low Density PTFE           | 0.88 mm |
| Inner Shield    | Silver-plated Copper Tape  | 1.00 mm |
| Outer Shield    | Silver-plated Copper Braid | 1.18 mm |
| Jacket          | PFA                        | 1.50 mm |

#### Outline



#### Ordering Information

TA150 - 40 - KKF - 1

Cable

Operating Frequency(GHz)

RF Connectors(K:2.92mm)

KK: 2.92mm male to 2.92mm male

KKF: 2.92mm male to 2.92mm female

KFKF: 2.92mm female to 2.92mm female

Overall Length(meter(s))