



# RG401 Semi-rigid High Temperature Cable



## CONSTRUCTION

|                 |                      |                               |
|-----------------|----------------------|-------------------------------|
| Inner conductor | Silver-plated Copper | $\Phi 1.63 \pm 0.02\text{mm}$ |
| Insulation      | Solid PTFE           | $\Phi 5.27 \pm 0.10\text{mm}$ |
| Outer conductor | Copper tube          | $\Phi 6.35 \pm 0.15\text{mm}$ |

## MECHANICAL PROPERTIES

|                        |    |          |
|------------------------|----|----------|
| Minimum Bending Radius | mm | 22.23    |
| Operation Temperature  | °C | -55~+200 |

## ELECTRICAL PROPERTIES

|                                 |                   |       |
|---------------------------------|-------------------|-------|
| Impedance                       | $\Omega$          | 50±2  |
| Capacitance                     | pF/m              | 97.09 |
| Propagation velocity            | %                 | 69.5  |
| Operating Voltage               | kV <sub>RMS</sub> | 3.0   |
| Dielectric Withstanding Voltage | kV <sub>RMS</sub> | 7.5   |
| Corona Extinction Voltage       | kV <sub>RMS</sub> | 3.0   |
| Max. operating Frequency        | GHz               | 18    |

## TRANSMISSION PROPERTIES

|           |                  |
|-----------|------------------|
| Frequency | Nom. attenuation |
| MHz       | @20°C, dB/m      |
| 500       | 0.16             |
| 1000      | 0.23             |
| 5000      | 0.58             |
| 10000     | 0.89             |

Maximum attenuation value shall be 105% of the nominal attenuation value

## STANDARDS

|            |           |
|------------|-----------|
| 2011/65/EU | Compliant |
|------------|-----------|