



## Semi-rigid cable .141 (Tinned copper)



**P/N: ST291862005**

### APPLICATION NOTE

Due to the outer conductor coating (tin), this cable will be used instead of RG402 for applications requiring high corrosion resistance and improved solderability.

This cable is also an economical alternative to .141 silvered copper.

## CONSTRUCTION / DIMENSIONS

|                  | Material                   | mm   | Inches |
|------------------|----------------------------|------|--------|
| Center conductor | Solid SPCCS <sup>(1)</sup> | 0.92 | 0.036  |
| Dielectric       | Solid PTFE <sup>(2)</sup>  | 2.98 | 0.117  |
| Inner shield     | TPC <sup>(3)</sup>         | 3.58 | 0.141  |
| Outer shield     | -                          | -    | -      |
| Jacket           | -                          | -    | -      |

## ELECTRICAL CHARACTERISTICS

|                           |                   |            |
|---------------------------|-------------------|------------|
| Characteristic impedance  | 50Ω ± 1Ω          |            |
| Operating frequency range | DC - 20 GHz       |            |
| Shielding effectiveness   | 110 dB            |            |
| Voltage withstanding      | 5 000 V rms       |            |
| Peak power                | 3.4 kW            |            |
| Capacitance               | 89 pF / m         | 27 pF / ft |
| Velocity of propagation   | 70 % (4.8 ns / m) |            |