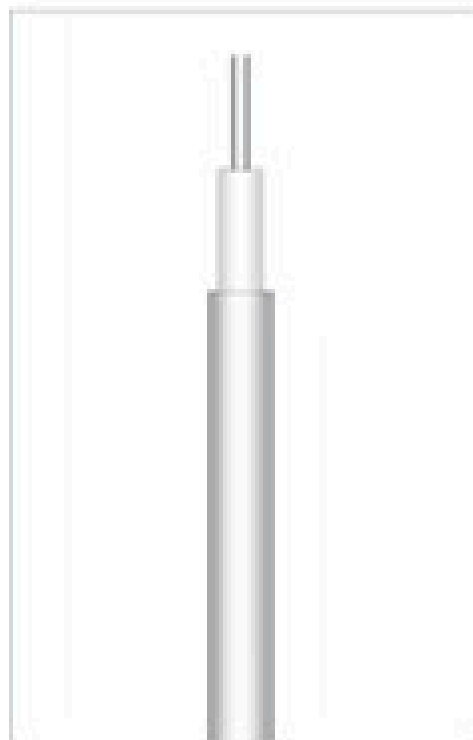




## Semi-rigid cable .085 (Aluminum)



P/N: ST291 844 187

### APPLICATION NOTE

Based on RG405 standard, this cable will be selected for application requiring easy conformability and/or application requiring reduced weight.

Due to the aluminum outer conductor, this cable can be hand formed with exceptional ease with no spring back effect.

The cable can be reshaped, eliminating the need for costly drawings.

The outer conductor material (aluminum) slightly increases the attenuation compared to standard RG405.

## CONSTRUCTION / DIMENSIONS

|                  | Material                   | mm   | Inches |
|------------------|----------------------------|------|--------|
| Center conductor | Solid SPCCS <sup>(1)</sup> | 0.51 | 0.020  |
| Dielectric       | Solid PTFE <sup>(2)</sup>  | 1.68 | 0.066  |
| Inner shield     | TPAI <sup>(2)</sup> tubing | 2.20 | 0.087  |
| 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                | 1.9 kW            |            |
| Capacitance               | 100 pF / m        | 30 pF / ft |
| Velocity of propagation   | 70 % (4.8 ns / m) |            |