

# High Performance Flexible Cable

## Cable Type 141A

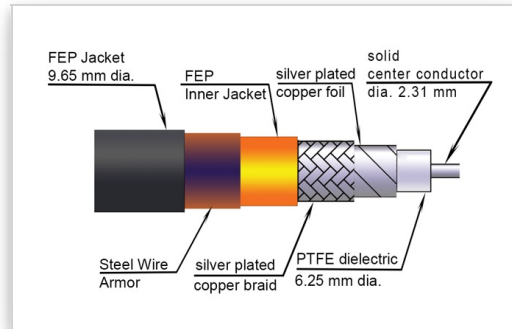
### Ultimate Performance DC - 19.00 GHz

#### Specifications

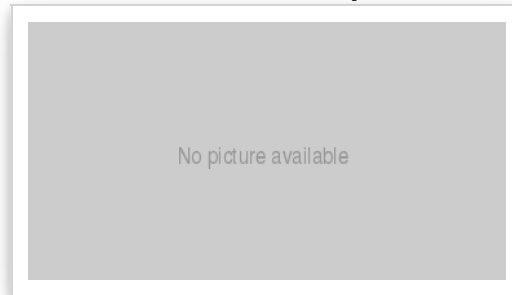
| Cable Code   | Standard  | 141A                        |
|--|---|-----------------------------|
|  | Armored   | Armored                     |
| Frequency Range  | DC - 19.00 GHz  |                             |
| Outer Diameter [mm]  | 9.65  |                             |
| Impedance [Ohms]<br>(@ sea level and +25°C)                          | 50 ± 2  |                             |
| Velocity of Propagation<br>[% , ± 2%]                                | 83.00   |                             |
| Capacitance [pF/m]   | 79.00   |                             |
| Dielectric Strength<br>(60 Hz) [KV rms]                              | -   |                             |
| Max. Operating Voltage<br>(60 Hz, @ sea level) [KV rms]              | -   |                             |
| Nominal Insertion Loss vs. Frequency<br>[dB/m]                       | 2.00 GHz  | 0.21                        |
|  | 4.00 GHz  | 0.30                        |
|  | 6.00 GHz  | 0.37                        |
|  | 8.00 GHz  | 0.43                        |
|  | 12.00 GHz   | 0.53                        |
|  | 14.00 GHz   | 0.60                        |
|  | 16.00 GHz   | 0.62                        |
|  | 18.00 GHz   | 0.66                        |
| Nominal CW Power vs. Frequency<br>(@ sea level and +20°C)<br>[Watts] | 2.00 GHz  | 1350.00                     |
|  | 4.00 GHz  | 900.00                      |
|  | 6.00 GHz  | 750.00                      |
|  | 8.00 GHz  | 650.00                      |
|  | 12.00 GHz   | 580.00                      |
|  | 14.00 GHz   | 550.00                      |
|  | 16.00 GHz   | 525.00                      |
|  | 18.00 GHz   | 450.00                      |
| RF Leakage @ 9.5 GHz   | >100 @ 18.0 GHz dbC                                   |                             |
| Operating Temperature Range  | -65 to +165   |                             |
| Center Conductor   | Material  | Solid Copper, silver-plated |
|  | Diameter [mm]   | 2.30                        |
| Dielectric   | Material  | Low-density EPTFE           |
|  | Diameter [mm]   | 6.25                        |
|  | Dielectric Constant                                   | 1.5                         |
| Outer Conductor Construction   | silver-plated copper foil, silver-plated copper braid |                             |
| Outer Jacket   | FEP   |                             |
| Weight [grams/m]   | 230.00  |                             |
| Connector Retention Force [N]  | 130.00  |                             |
| Minimum Bend Radius, Inside, Static [mm]                             | 40.00   |                             |
| Minimum Bend Radius, Inside, Dynamic [mm]                            | 450.00  |                             |

#### Characteristics:

#### Cross Section View:



#### Attenuation & Power Graph:



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Specifications are subject to change without notice.