

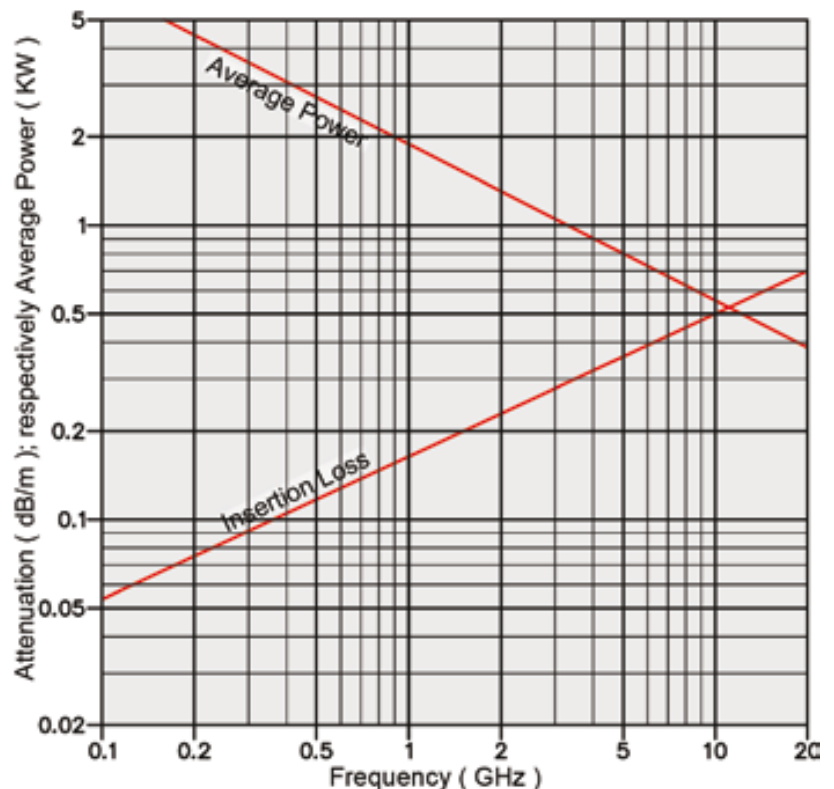
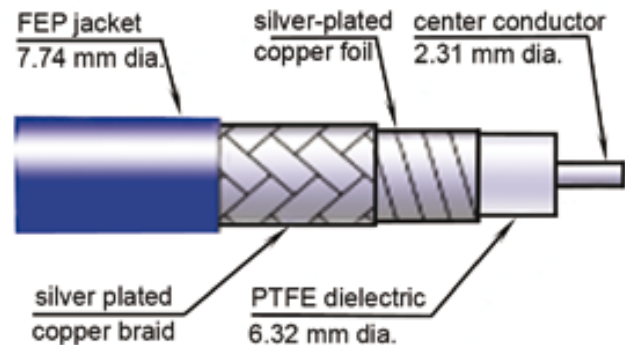
Cable -Type 141 Ultra Low Loss to 19.5 GHz

Cables of Types 141 and 143 are identical with the exception of the shielding and O.D.

| SPECIFICATION | | Type 141 |
|---|--|---|
| Cable Code | Standard | 141 |
| | Armored | 141x |
| | X: Please find Armor & Ruggedizing Options in Section S. | |
| Frequency Range | | DC to 19.5 GHz |
| Outer Diameter in mm | Standard | 7.74 |
| Impedance in Ohms at Sea Level and +25°C | | 50 ± 2 |
| Velocity in %, ± 2% | | 84 |
| Capacitance in pF/m | | 79 |
| Dielectric Strength (60 Hz) in KV rms | | 6.0 |
| Max. Operating Voltage at Sea Level, in KV rms, 60 Hz | | 1.5 |
| Nominal Insertion Loss in dB/m vs. Frequency | 1.0 GHz | 0.16 |
| | 2.0 GHz | 0.23 |
| | 4.0 GHz | 0.32 |
| | 8.0 GHz | 0.45 |
| | 12.4 GHz | 0.54 |
| | 18.0 GHz | 0.66 |
| Nominal CW-Power in Watts, vs. Frequency, at Sea Level and + 20°C | 1 GHz | 1900 |
| | 2.0 GHz | 1306 |
| | 4.0 GHz | 900 |
| | 8.0 GHz | 618 |
| | 12.4 GHz | 496 |
| | 18.0 GHz | 400 |
| RF - Leakage at 18.0 GHz | | -90 dBC |
| Operating Temperature Range | | -65°C to +200°C |
| Outer Conductor Construction | | Silver Plated Copper Foil, Silver Plated Copper Braid |
| Outer Jacket | | FEP |
| Dielectric Diameter in mm | | 6.32 |
| Dielectric Material | | Low Density EPTFE |
| Dielectric Constant | | 1.4 |
| Center Conductor Material | | Copper, Silver Plated |
| Center Conductor Dia. in mm | | 2.31 |
| Weight in Grams/Meter | | 116 |
| Connector Retention Force (N) | | 200 |
| Minimum Bend Radius, Inside, Static (mm) | | 44 |
| Minimum Bend Radius, Inside, Dynamic (mm) | | 400 |

Characteristics:

- * Excellent Performance to 19.5 GHz.
- * Very Rugged Construction.
- * Meets the very highest Quality Standard, as needed for crucial applications in harsh environment
- * Procurement for completely terminated assemblies, fully tested. The test documentation for VSWR and Insertion Loss will be supplied with the cable assembly.
- * Available connectors: 7mm, N, SMA, SBX, SBY, BQ-, CQ-, IQ-, RQ-, SQ- TQ-Series and TNC.. For Connector Outline Drawings please refer to Section Q.
- * For Connector Code details please refer to Section S.
- * For information on armor please refer to Section S as well.
- * For ordering information please refer to Section A.



Specifications are subject to change without notice.