

# Phase King Cable

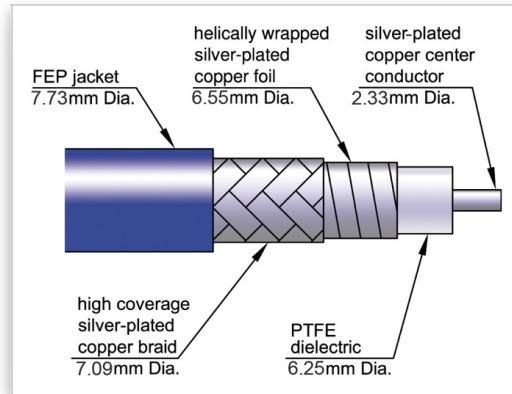
## Cable Type P300

DC - 18.00 GHz

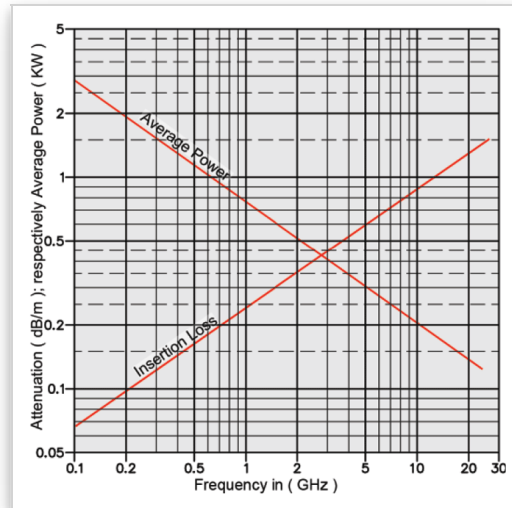
| Specifications   |  |                            |
|--|--|----------------------------|
| Cable Code   | Standard   | 30P                        |
|  | Armored  | 30Px                       |
| Frequency Range  | DC - 18.00 GHz   |                            |
| Outer Diameter [mm]  | 7.73   |                            |
| Impedance [Ohms]<br>(@ sea level and +25°C)                          | 50 ± 2   |                            |
| Velocity of Propagation<br>[% , ± 2%]                                | 84.60  |                            |
| Capacitance [pF/m]   | 78.70  |                            |
| 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]                       | 1.00 GHz   | 0.18                       |
|  | 2.50 GHz   | 0.25                       |
|  | 10.00 GHz  | 0.52                       |
|  | 18.00 GHz  | 0.72                       |
| Nominal CW Power vs. Frequency<br>(@ sea level and +20°C)<br>[Watts] | 1.00 GHz   | 1600.00                    |
|  | 2.50 GHz   | 1000.00                    |
|  | 10.00 GHz  | 540.00                     |
|  | 18.00 GHz  | 340.00                     |
| RF Leakage @ 9.5 GHz   | - dBc  |                            |
| Operating Temperature Range  | -54 to +125  |                            |
| Center Conductor   | Material   | Solid silver-plated copper |
|  | Diameter [mm]  | 2.33                       |
| Dielectric   | Material   | EPTFE                      |
|  | Diameter [mm]  | 6.25                       |
|  | Dielectric Constant  | 1.5                        |
| Outer Conductor Construction   | Helically -wrapped silver-plated copper foil, high-coverage silver-plated copper braid |                            |
| Outer Jacket   | FEP  |                            |
| Weight [grams/m]   | 130.00   |                            |
| Connector Retention Force [N]  | 330.00   |                            |
| Minimum Bend Radius, Inside, Static [mm]                             | 40.00  |                            |
| Minimum Bend Radius, Inside, Dynamic [mm]                            | 80.00  |                            |

### Characteristics:

#### Cross Section View:



#### Attenuation & Power Graph:



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Specifications are subject to change without notice.