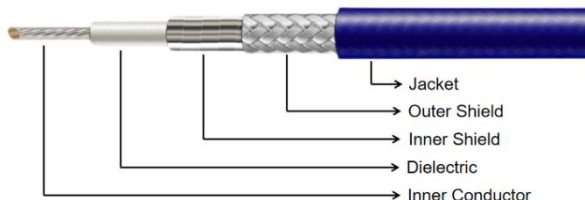


## FS600Z

26.5GHz, 50 Ohm,  $\Phi$ 6.0mm, PUR Jacket, Ultra Flexible Cable, Stranded Inner Conductor

### Structure:



### Structure Details:

| Cable Type      | Dia.(mm) | Material                   |
|-----------------|----------|----------------------------|
| Inner Conductor | 1.44     | Silver plated Copper       |
| Dielectric      | 4.15     | Low Density PTFE           |
| Inner Shield    | 4.35     | Silver Plated Copper Strip |
| Outer Shield    | 4.80     | Silver Plated Copper Braid |
| Jacket          | 6.00     | PUR                        |

### Electrical Specifications:

Operating Freq.: 26.5 GHz

Cut-off Freq.: 29.5 GHz

Impedance: 50  $\Omega$

Velocity of Propagation: 76%

Shielding Effectiveness: >90 dB

Dielectric Withstanding Voltage: 1700 V DC

### Mechanical Specifications:

Static Bending Radius: 30 mm

Dynamic Bending Radius: 60 mm

Weight: 72 g/m

### Environmental Specifications:

Temperature: -55~+85 °C

### Typical Attenuation(dB/100m) and Power handling (W)

| Freq.(GHz)                 | 1    | 2    | 3    | 4    | 6    | 8  | 10   | 12.4  | 18    | 26.5  |
|----------------------------|------|------|------|------|------|----|------|-------|-------|-------|
| Attenuation <sup>1</sup>   | 28.7 | 41.2 | 50.9 | 59.3 | 73.6 | 86 | 97.1 | 109.2 | 134.3 | 167.2 |
| Avg. Power <sup>2</sup>    | 175  | 122  | 99   | 85   | 68   | 59 | 52   | 46    | 37    | 30    |
| K1: 0.880600, K2: 0.000900 |      |      |      |      |      |    |      |       |       |       |

1: Typical value@+25 °C,VSWR=1.0;

2: Typical value@+40 °C,atmospheric pressure;

3: Typical Cable Attenuation Calculation, Formula:  $K1 \cdot \sqrt{F(\text{MHz})} + K2 \cdot F(\text{MHz})$ ;

4: Typical Connector Attenuation Calculation, Formula:  $0.03 \cdot \sqrt{F(\text{GHz})}$  .

### Cable Assemblies Naming Rule:

PN: Cable-Max. Freq.-Conn.1-Conn.2-Length(m)

Eg.: FS600Z-26.5-SM-SF-1 means FS600Z cable, DC-26.5GHz, SMA(m)-SMA(f), 1m.