

YSUFCLL-360GF

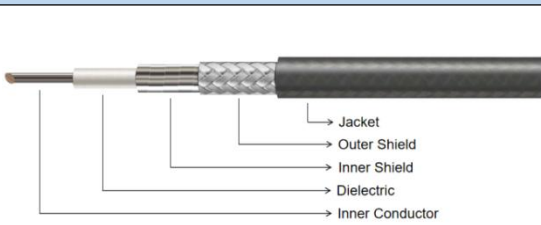
18 GHz, ϕ 4.00 mm Cost-Effective Ultra-Flexible Low-Loss RF Cable Assembly

Key Features

- Ultra-Flexible Design
- Low VSWR
- Low Insertion Loss
- Excellent Bendability
- High Cost Performance

Applications

- Cabinet Interconnections
- Base Station Jumper Cables
- Compact RF Systems
- Indoor RF Routing
- Flexible RF Installations

| Cable Construction | | | | | | | | |
|---|-------------|------------|-----------------|------------------------------|---------------------------|------------|-------|-------|
|  | | | Cable Type | Dia.(mm) | Material | | | |
| | | | Inner Conductor | ϕ 0.91 | Silver plated Copper | | | |
| | | | Dielectric | ϕ 2.65 | Low Density PTFE | | | |
| | | | Inner Shield | ϕ 2.78 | Bonded Aluminum Foil | | | |
| | | | Outer Shield | ϕ 3.15 | Silver-Plated Copper Wire | | | |
| | | | Jacket | Φ 4.00 | PUR | | | |
| Electrical Specifications | | | | Mechanical Specifications | | | | |
| Operating Freq. | 18 GHz | | | Static Bending Radius | 20 mm | | | |
| Cut-off Freq. | 40 GHz | | | Dynamic Bending Radius | 40 mm | | | |
| Impedance | 50 Ω | | | Weight | 29 g/m | | | |
| Velocity of Propagation | 76% | | | Environmental Specifications | | | | |
| Shielding Effectiveness | >70 dB | | | Operating Temperature | -55 to +85°C | | | |
| Dielectric Withstanding Voltage | 1500 VDC | | | | | | | |
| Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C) | | | | | | | | |
| Freq.(GHz) | 1 | 2 | 3 | 6 | 8 | 10 | 12.4 | 18 |
| Attenuation | 44.7 | 63.6 | 78.2 | 111.7 | 129.6 | 145.5 | 162.8 | 198.0 |
| Avg. Power | 407 | 286 | 233 | 163 | 140 | 125 | 112 | 92 |
| Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=1.395308, K2=0.000600$ | | | | | | | | |
| Connectors Options | | | | | | | | |
| Connectors | Freq.(Max) | VSWR (Max) | | Connectors | Freq.(Max) | VSWR (Max) | | |
| SMA (S) | 27 GHz | 1.25:1 | | N(N) | 18 GHz | 1.25:1 | | |
| | | | | | | | | |

Cable Assemblies Naming Rule:

PN: Cable-Length(M)-Connector 1-Connector 2

Eg.: YSUFCLL-360GF-1M-SM-SF means YSUFCLL-360GF cable, L=1M, SMA(M)-SMA(F).

Add "R" for Right-Angle Connector, Add "H" for Bulkhead Connector (e.g., SMR, SFH).