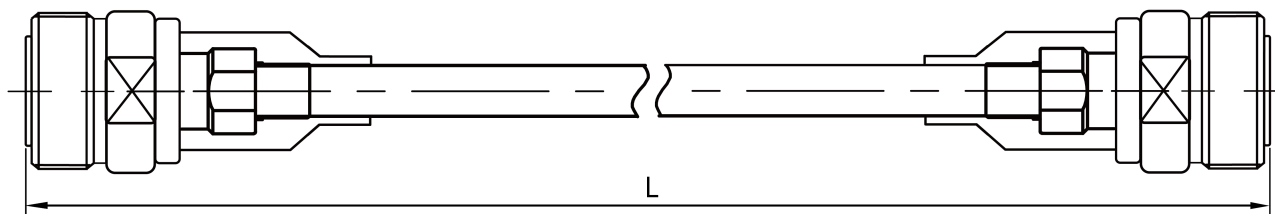


## Ultra-Low Loss Phase Stable Cable Assembly, RCA800-DFDF-L L29 Female to L29 Female, DC-7.5GHz, $\varnothing 7.8\text{mm}$

### Dimensions(mm) Tolerance $\pm 1\%$



### Electrical & Environmental

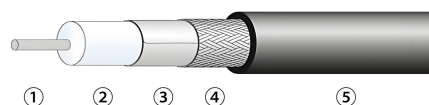
|                         |                          |
|-------------------------|--------------------------|
| Frequency Range         | DC-7.5GHz, 50 Ohms       |
| Avg Power@25°C          | 637W @7.5GHz, 716W @6GHz |
| Insertion Loss@1M       | 0.62 dB Max @7.5GHz      |
| VSWR                    | 1.2 Max                  |
| Dielectric Constant     | 1.45                     |
| Capacitance             | 80 pF/m                  |
| Inductance              | 0.17 uH/m                |
| Velocity of Propagation | 83%                      |
| Shielding Effectiveness | 90dB Min                 |
| Withstand Voltage       | 2500V@DC                 |
| Temperature Phase       | 750 PPM Max              |
| OT                      | -40~+125°C               |

### Product Information

|                        |                                            |
|------------------------|--------------------------------------------|
| Product Number         | RCA800-DFDF-L                              |
| Product Type           | Ultra-Low Loss Phase Stable Cable Assembly |
| Cable                  | RCA800                                     |
| Connector              | L29 Female to L29 Female                   |
| Connector Body         | Ternary alloy plated brass                 |
| Center Contact         | Gold plated brass                          |
| Bend Radius            | 39.00mm                                    |
| Bend Radius (Repeated) | 78.00mm                                    |

Customized services: including connectors, length, phase matching/tracking, time delay, and better electrical performance.

### RCA800 Structure Characteristics



| Structure          | Material                           | $\Phi D(\text{mm})$ |
|--------------------|------------------------------------|---------------------|
| 1.Center Conductor | Single-core Silver-plated Copper   | 2.30                |
| 2.Dielectric       | LD-PTFE                            | 6.30                |
| 3.Inner shield     | Silver-plated Copper Tape Wrapping | 6.60                |
| 4.Outer Shield     | Silver-plated Copper Wire Braiding | 7.15                |
| 5.Jacket           | Gray FEP                           | 7.80                |

### Product Selection and Loss Index @25°C

| RFTOP P/N        | 3GHz    | 5GHz    | 7.5GHz  |
|------------------|---------|---------|---------|
| RCA800-DFDF-1M   | 0.46 dB | 0.55 dB | 0.62 dB |
| RCA800-DFDF-1.5M | 0.59 dB | 0.72 dB | 0.83 dB |
| RCA800-DFDF-2M   | 0.72 dB | 0.89 dB | 1.04 dB |