

## Economical Low Loss Coaxial Cable, RCM240S

### DC-8GHz, ø6.1mm, E-Grade, Super Soft



Dimensions(mm) Tolerance±1%



### Electrical & Environmental

|                       |                       |
|-----------------------|-----------------------|
| Frequency Range       | DC-8GHz               |
| Impedance             | 50 Ohms               |
| CW power@25°C         | 60W @8GHz, 102W @3GHz |
| Attenuation@Length 1m | 0.95 dB Max @8GHz     |
| Capacitance           | 79.4 pF/m             |
| VOP                   | 84%                   |
| SE                    | 90dB Min              |
| Voltage               | 1500V@DC              |
| OT                    | -40~+85°C             |

### Product Information

|                     |                                   |
|---------------------|-----------------------------------|
| Product Number      | RCM240S, E-Grade                  |
| Product Type        | Economical Low Loss Coaxial Cable |
| Bend Radius (Inst.) | 19.10mm                           |
| Bend Radius (Rep.)  | 61.00mm                           |
| Net Weight          | About 50.0g per meter             |

### RFTOP P/N and Packaging

| RFTOP P/N   | Length | Packaging  |
|-------------|--------|------------|
| RCM240S-10M | 10 m   | Sealed bag |

### RCM240S Structure Characteristics

| Structure                                                                                  | Material                            | Diameter     |
|--------------------------------------------------------------------------------------------|-------------------------------------|--------------|
| 1.Center Conductor                                                                         | Stranded Bare Copper Wire           | 1.42 mm      |
| 2.Dielectric                                                                               | Foam PE                             | 3.81 mm      |
| 3.Inner shield                                                                             | Aluminum Foil Longitudinal Wrapping | mm           |
| 4.Outer Shield                                                                             | Tin-plated Copper Wire Braiding     | 4.52 mm      |
| 5.Jacket                                                                                   | Black TPE                           | 6.10 mm      |
| Frequency(MHz)                                                                             | ATTEN(dB/100M)                      | Avg Power(W) |
| 50                                                                                         | 6.80                                | 840          |
| 100                                                                                        | 9.65                                | 592          |
| 200                                                                                        | 13.72                               | 416          |
| 500                                                                                        | 21.91                               | 261          |
| 800                                                                                        | 27.91                               | 205          |
| 1000                                                                                       | 31.34                               | 182          |
| 2000                                                                                       | 45.02                               | 127          |
| 2450                                                                                       | 50.11                               | 114          |
| 3000                                                                                       | 55.80                               | 102          |
| 4000                                                                                       | 65.07                               | 88           |
| 5000                                                                                       | 73.39                               | 78           |
| 6000                                                                                       | 81.02                               | 71           |
| $\text{dB}/100\text{M}=\text{K1} \times \sqrt{\text{FMHz}} + \text{K2} \times \text{FMHz}$ |                                     |              |
| $\text{K1}=0.953, \text{K2}=0.0012, \text{P3}=5712$                                        |                                     |              |