

## RF CABLE ASSEMBLY

### SMA Male Straight to SMA Male Straight - LMR240

| SPECIFICATION             |                 |
|---------------------------|-----------------|
| RF Series 1               | SMA             |
| Gender                    | Plug (Male)     |
| Orientation 1 (Body)      | Straight        |
| RF series 2               | SMA             |
| Gender 2                  | Plug (Male)     |
| Orientation 2 (Body)      | Straight        |
| Body Finish               | Gold            |
| Body Material             | Brass           |
| Contact Finish            | Gold            |
| Contact Material          | Phosphor Copper |
| Cable Type                | LMR240          |
| Cable Center Conductor    | Solid BC        |
| Cable Dielectric Material | Foam PE         |
| Cable Outer Conductor     | Aluminium Tape  |
| Cable Overall Braid       | Tinned Copper   |
| Jacket                    | PE              |
| Cable Colour              | Black           |

PART No: TE-RFCA-SMA-MST-MST-LMR240-5M



#### Key Applications:

- Antenna feeder runs
- Inter/intra cabinet jumpers
- Internal component equipment wiring
- GPS system wiring

| ELECTRICAL PROPERTIES        |                |
|------------------------------|----------------|
| Frequency                    | DC - 6 GHz     |
| Impedance                    | 50 Ohm         |
| VSWR                         | ≤1.40          |
| Max Insertion Loss/mtr (dB)  | 0.73 @ 900 MHz |
|                              | 0.89 @ 2.5 GHz |
|                              | 1.17 @ 5.8 GHz |
| Capacitance (pF/m)           | 79.4           |
| Velocity of Propagation      | 83%            |
| Shielding Effectiveness      | > 90 dB        |
| Voltage Withstand (Volts DC) | 1500           |

#### TE TECH SOLUTION

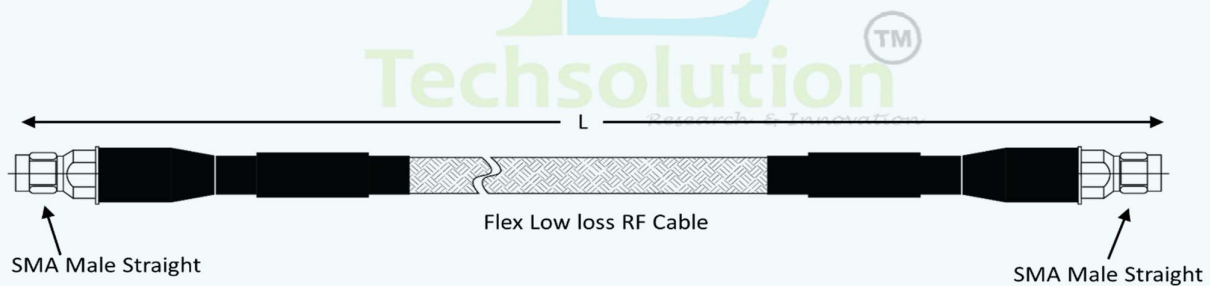
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### Mechanical Properties

|                      |                      |      |
|----------------------|----------------------|------|
| Length               | 5 mtr.               |      |
| Length Tolerance     | ±1%                  |      |
| Weight               | 300gm (Max)          |      |
| Durability (matings) | ≥ 500                |      |
| Min. Bending Radius  | Static               | 19.1 |
|                      | Dynamic              | 60.0 |
| Outer Diameter (Max) | 6mm                  |      |
| Marker Position      | Centre and both Side |      |

### Environmental Properties

|                   |             |
|-------------------|-------------|
| Temperature Range | -40 to 85°C |
|-------------------|-------------|



CAD drawing shown is for reference only and may differ slightly from the actual RF cable assembly.

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