

**X38 – A94081-084****50 ohms Coaxial Cable**

| <b>TECHNICAL DATASHEET RECORD LIST</b> |             |                                       |
|--|-------------|---------------------------------------|
| <b>Issue</b>                           | <b>Date</b> | <b>Reasons for revision</b>           |
| 03                                     | 18/10/2018  | Add value for shielding effectiveness |
| 04                                     | 10/06/2019  | Correction temperature range          |
| 05                                     | 20/03/2020  | Logo Modification                     |

### Construction

|    |                 |   |                                   |                            |
|----|-----------------|---|-----------------------------------|----------------------------|
| 1. | Inner Conductor | : | Solid                             | ∅ = 0,92 mm (0,036 inches) |
| 2. | Dielectric      | : | PTFE                              | ∅ = 2,98 mm (0,117 inches) |
| 3. | Outer Conductor | : | Seamless copper tubing tin plated | ∅ = 3,58 mm (0.141 inches) |

### Electrical Specifications

|                         |   |                   |
|-------------------------|---|-------------------|
| Impedance               | : | 50 Ohms           |
| Operating Frequency     | : | DC to 33 GHz      |
| Cut-off Frequency       | : | N.A               |
| Shielding effectiveness | : | 120dB up to 18GHz |
| Capacitance             | : | N.A               |
| Velocity of propagation | : | 69,5 %            |
| Time Delay              | : | 4,79 ns/m         |

### Mechanical / Environmental Specifications

|                             |   |                                   |
|-----------------------------|---|-----------------------------------|
| Weight                      | : | 52,10 g/m                         |
| Static Bend Radius          | : | 6,40 mm (0,25 inches)             |
| Operating Temperature Range | : | -55°C to +125°C (-67°F to +257°F) |

### Connectors

Compatible with SMA, N, TNC, 3.5mm, 2.92mm interfaces

### Spécifications

- RoHS Compliant
- MIL-C-17

| FREQUENCY (MHz) | ATTENUATION (dB/m max.) | Average POWER (W) |
|-----------------|-------------------------|-------------------|
| 1000            | 0,37                    | 450               |
| 5000            | 0,91                    | 180               |
| 10000           | 1,37                    | 120               |
| 20000           | 2,12                    | 70                |
| 33000           | 2,95                    | N.A               |