



## Specifications

| Models          | C158C (Stand Cable)  | C158C-Z (Fire-retardant Cable) |
|-----------------|--|--------------------------------|
| Inner Conductor | Material: Helical Corrugated Copper Tube / Diameter: 17.3±0.2 (mm) |                                |
| Insulation      | Material: Foamed PE / Diameter: 42.5±0.5 (mm)                      |                                |
| Outer Conductor | Material: Annular Corrugated Copper Tube / Diameter: 46.5±0.3 (mm) |                                |
| Jackiet         | Material: LLDPE or Fire-retardant PE / Diameter: 49.5±0.3 (mm)     |                                |

### MECHANICAL SPECIFICATIONS

|                       |                                       |                                  |
|-----------------------|---------------------------------------|----------------------------------|
| Bending Radius        | 280mm/Single Bend 500mm/Repeated Bend |                                  |
| Tensile Strength      | 3000N                                 |                                  |
| Weight                | 1100kg/km   2425lb/km                 |                                  |
| Operating Temperature | -55°C to +85°C   -67°F to +185°F      | -30°C to +80°C   -22°F to +176°F |
| Storage Temperature   | -70°C to +85°C   -94°F to +185°F      | -30°C to +80°C   -22°F to +176°F |

### ELECTRICAL SPECIFICATIONS

|                               |   |  |
|-------------------------------|---|--|
| Inner Conductor DC Resistance | 1.52Ω/km  |  |
| Outer Conductor DC Resistance | 0.55Ω/km  |  |
| Impedance                     | 50±1.0Ω   |  |
| Capacitance                   | 76pF/m  |  |
| Velocity                      | 88%   |  |
| Dielectric Strength           | 15.0kv  |  |
| Insulation Resistance         | >1×10 <sup>4</sup> MΩ/km                        |  |
| Peak Power Rating             | 310KV   |  |
| Peak Voltage                  | 5600V   |  |
| Cut-off Frequency             | 2.7GHz  |  |
| VSWR                          | 1.15 @ 800MHz-1000MHz<br>1.20 @ 1700MHz-2700MHz |  |

### ATTENUATION

| Frequency (MHz) | Attenuation (dB/100m) @ 20°C | Average Power (Kv) |
|-----------------|------------------------------|--------------------|
| 200             | 0.99                         | 11.80              |
| 450             | 1.57                         | 7.45               |
| 800             | 2.19                         | 5.33               |
| 900             | 2.35                         | 4.97               |
| 1800            | 3.58                         | 3.26               |
| 2000            | 3.82                         | 3.05               |
| 2200            | 4.05                         | 2.80               |
| 2400            | 4.30                         | 2.69               |
| 2500            | 4.42                         | 2.64               |
| 2700            | 4.70                         | 2.43               |