

DATA SHEET



RF Cable

HCTAY(YZ)-50-22(7/8")



Description

| | |
|----------------------------|--------------|
| Standard cable | |
| 7/8" PE jacket | HCTAY-50-22 |
| Fire retardant cable | |
| 7/8" Fire retardant jacket | HCTAYZ-50-22 |

| | | |
|-------------|-----------------|--------|
| Return Loss | 87-108MHz | ≤-26dB |
| | 470-862MHz | ≤-26dB |
| | 1700MHz-1900MHz | ≤-24dB |
| | 1900MHz-2200MHz | ≤-24dB |
| | 2200MHz-2500MHz | ≤-24dB |

Mechanical Performance

| | | |
|-------------------------------|----------------------------|---------------|
| Inner conductor | Cu tube | 9.05±0.05mm |
| Dielectric | Foamed PE | nom. 22.4mm |
| Outer conductor | Annular Corrugated Cu tube | 24.9±0.2mm |
| Outer Jacket | PE | 27.5±0.30mm |
| | FRNC | 27.5±0.30mm |
| Min. Bending Radius(single) | | 140mm |
| Min. Bending Radius(multiple) | | 250mm |
| Number of bends(minimum) | | 15 |
| Tensile strength | | 1500N |
| Operating temperature | PE | -55°C ~ +85°C |
| | FRNC | -40°C ~ +85°C |
| Installation temperature | PE | -40°C ~ +65°C |
| | FRNC | -25°C ~ +60°C |
| Storage Temperature | PE | -70°C ~ +85°C |
| | FRNC | -40°C ~ +85°C |

Attenuation and Average Power

| Frequency (MHz) | Attenuation (dB/100m) | Average Power (kw) |
|-----------------|-----------------------|--------------------|
| 87 | 1.101 | 8.080 |
| 108 | 1.228 | 7.260 |
| 450 | 2.644 | 3.410 |
| 500 | 2.782 | 3.220 |
| 600 | 3.069 | 2.910 |
| 700 | 3.337 | 2.670 |
| 800 | 3.594 | 2.480 |
| 824 | 3.653 | 2.440 |
| 960 | 4.031 | 2.240 |
| 1000 | 4.079 | 2.190 |
| 1800 | 5.693 | 1.560 |
| 2000 | 6.089 | 1.480 |
| 2400 | 6.733 | 1.300 |
| 3000 | 7.525 | 1.160 |

Electrical Performance

| | |
|---------------------------------|---|
| Impedance | 50±1Ω |
| Cutoff Frequency | 5.2GHz |
| Velocity of Propagation | 88% |
| Peak Power | 91kW |
| Insulation resistance | >3000MΩ·km |
| Dielectric strength | 6000V |
| Capacitance | 76pF/m |
| Inductnce | 0.19μH/m |
| DC resistance inner conductor | 1.50Ω/km |
| DC resistance outer conductor | 1.60Ω/km |
| Intermodulation (IM3, 2 x 20 W) | ≤ -155 dBc |
| | @ 910MHz and 1800MHz (static & dynamic) |

Standard Conditions:

Typical attenuation at sea level with 20°C, maximum value shall be 105% of the nominal attenuation value / Power rate at 40°C

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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