

7/8" FLEXIBLE FORM DIELECTRIC CABLE

HCTAY-50-22/ HCTAY-50-22ZR



Specification of the 7/8" Form Dielectric Feeder Cable (Model: HCTAY-50-22/ HCTAY-50-22ZR):

Cable Construction:

| Item | Diameter | Material |
|-----------------|----------|--|
| Inner Conductor | 9.0 mm | Copper Tube |
| Insulator | 22.3 mm | Foamed polyethylene |
| Outer Conductor | 25.0 mm | Annular corrugated copper tube |
| Jacket | 27.6 mm | Polyethylene or Low Smoke Halogen Free |

Mechanical Characteristics:

| Item | Specification | Remarks |
|--------------------------------|---------------|---------------------|
| Static Minimum Bending Radius | 90 mm | Single bend |
| Dynamic Minimum Bending Radius | 250 mm | Repeat for 15 times |
| Tensile Strength | 1470 N | |
| Cable Weight | 550kg/km | |

Electrical Characteristics:

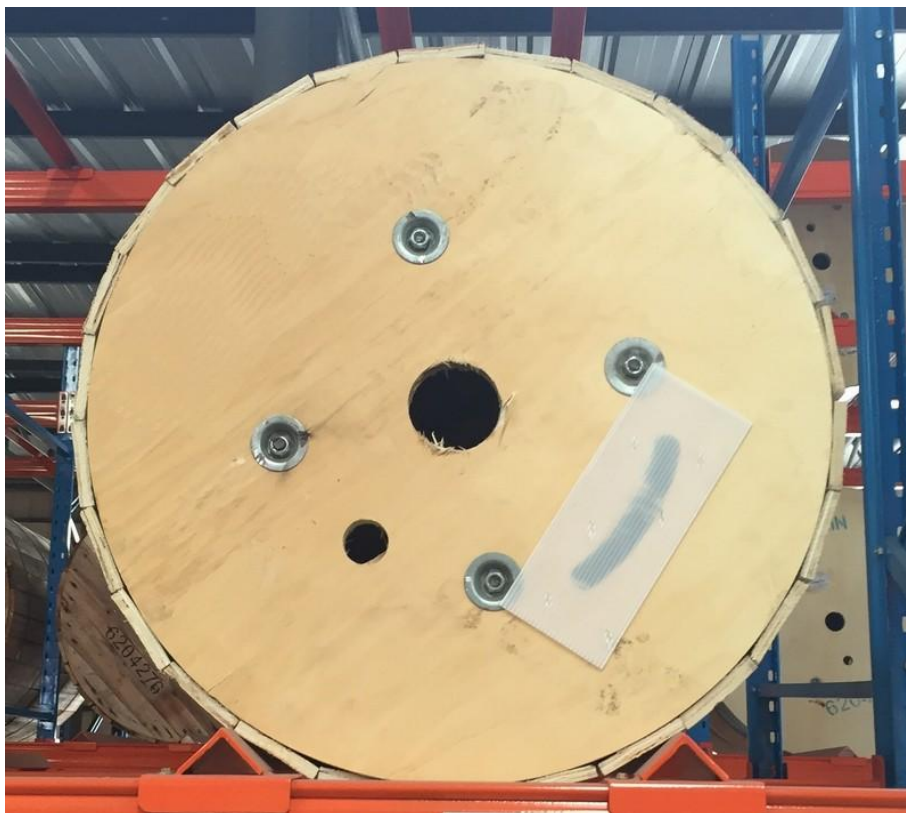
| Item | Specification | Remarks |
|-------------------------------|---------------|----------------|
| Characteristic Impedance | 50Ω | |
| Velocity | 89% | Nominal value |
| Minimum Insulation Resistance | 5000MΩ.km | DC500V 1minute |
| Capacitance | 75.0pF/m | Nominal value |
| Dielectric Strength | DC10000V | 1 minute |
| Inner Conductor DC Resistance | 1.04Ω/km | At 20°C |
| Outer Conductor DC Resistance | 1.05Ω/km | At 20°C |
| Peak Power Rating | 91kW | |
| RF Peak Voltage | 3000V | |
| VSWR Typical Value | 1.10 | 800M-2200MHz |
| | 1.13 | 2200M-2700MHz |
| | 1.20 | 2700M-4000MHz |

Attenuation & Average Power Rating:

| Frequency MHz | Attenuation dB/100m | Average Power kw | Frequency MHz | Attenuation dB/100m | Average Power kw |
|---------------|---------------------|------------------|---------------|---------------------|------------------|
| 100 | 1.19 | 8.62 | 1800 | 5.73 | 1.79 |
| 150 | 1.47 | 7.20 | 2000 | 6.09 | 1.68 |
| 280 | 2.05 | 4.94 | 2500 | 6.78 | 1.50 |
| 450 | 2.64 | 3.88 | 2700 | 7.22 | 1.31 |
| 800 | 3.62 | 2.83 | 3000 | 7.68 | 1.22 |
| 900 | 3.87 | 2.65 | 3400 | 8.35 | 1.12 |
| 1000 | 4.10 | 2.50 | 4000 | 10.56 | 1.0 |
| 1500 | 5.16 | 1.99 | 5000 | 10.90 | 0.86 |



7/8" Standard type RF Cable Picture



7/8" Feeder Cable Packing Picture (500 Meter)

