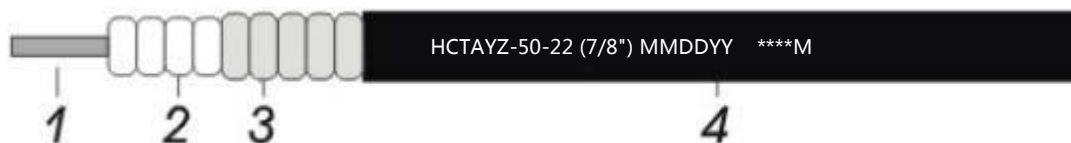


7/8" Corrugated Copper Tube Coaxial Cable



1 Product Materials

	Designation	Materials	Diameter (mm)
1	Inner Conductor	Copper Tube	9.10±0.10
2	Insulation	Foam Polyethylene (PE)	Nom. 22.4
3	Outer Conductor	Regular Corrugated Copper Tube	24.90±0.30
4	Jacket	Halogen Free, Flame Retardant Polyolefin (FR), Black	27.30±0.50
5	Marking	HCTAYZ-50-22 (7/8") MMDDYY ****M	

*MMDDYY: Product Month Date Year and Time

2 Electrical Specifications

Impedance	50 Ohm	
Operating Frequency Band	0 - 5000 MHz	
Velocity	88 %	
Capacitance	76 pF/m	
Inductance	0.184 µH/m	
RF Peak Power Rating	≥ 91 KW	
RF Peak Voltage	≥ 6000 V	
Jacket Spark Test (RMS)	≥ 8000 V	
Dielectric Resistance	≥ 5000 MOhm / Km	
Return Loss (VSWR)	Typical	Max
0 - 5000 MHz	≤ -21.7 dB (1.18)	≤ -20.8 dB (1.20)
698 - 960 MHz	≤ -24.3 dB (1.13)	≤ -23.1 dB (1.15)
1710 - 2170 MHz	≤ -24.3 dB (1.13)	≤ -23.1 dB (1.15)
2300 - 2400 MHz (Optional)	≤ -24.3 dB (1.13)	≤ -23.1 dB (1.15)
2496 - 2690 MHz (Optional)	≤ -24.3 dB (1.13)	≤ -23.1 dB (1.15)
3300 - 5000 MHz (Optional)	≤ -21.7 dB (1.18)	≤ -20.8 dB (1.20)
3 rd Order Intermodulation (2x43 dBm)	≤ -160 dBc (-117dBm)	≤ -155 dBc (-112dBm)

3 Attenuation and Average Power

Frequency (MHz)	Attenuation*1*2 (dB/100m)	Average Power*3 (KW)	Frequency (MHz)	Attenuation*1*2 (dB/100m)	Average Power*3 (KW)
200 MHz	1.58	6.27	1800 MHz	5.21	1.61
450 MHz	2.44	3.44	2000 MHz	5.53	1.52
700 MHz	3.09	2.72	2100 MHz	5.68	1.48
800 MHz	3.33	2.53	2200 MHz	5.83	1.44
824 MHz	3.38	2.49	2300 MHz	6.00	1.40
900 MHz	3.55	2.38	2500 MHz	6.27	1.34
960 MHz	3.67	2.29	3000 MHz	7.30	1.27
1000 MHz	3.76	2.24	5000 MHz	9.80	1.05

*1) Attenuation Test Temperature 20 °C; *2) Max attenuation value shall be 110% of nominal attenuation value.

*3) Average Power Test Temperature 20 °C, Inner Conductor Temperature 100 °C.

5 Mechanical Requirements

Tensile Strength	1450 N (315 lb)
Bending moment	19.0 Nm (14.0 ft.lb)
Min Bend Radius, Single Bend	125 mm (5 in)
Min Bend Radius, Multiple Bends	250 mm (10 in)
Number of Bends, Minimum (Typical)	15 (30)
Flat Plate Crush Strength	20 N/mm (110.0 lb/in)
Cable Weight	360 Kg/Km

6 Environment Specifications

Installation Temperature	-40°C ~ +60°C
Operating Temperature	-55°C ~ +85°C
Storage Temperature	-70°C ~ +85°C

7 Product Package

Product No.	Qty.	Packaging	Size
C78N_06/5	500 m ⁵⁾	Drum	TBD

8 Transport Package

According to the Packaging Specifications

9 Label Requirements

According to the Packaging Specifications

10 Reference

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11 Banned and Restricted Substances

RoHS 2022/95/EC	Compliant
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12 Document Revision Information

Revision	Description
A0	First revision
B0	Changed the Forums
B1	Frequency of Attenuation added; Transport Package added; Label Requirements added
C0	Tolerance added; Cable Net Weight added