

C78N_06_41060026

7/8" Corrugated Copper Tube Coaxial Cable, Black Fire-retardant Jacket



1 Product Materials

	Designation	Materials	Diameter (mm)
1	Inner Conductor	Copper Tube	9.30±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	KINGSIGNAL HCTAYZ-50-22 (7/8") MMDDYY-TTTT-N ****M	

*MMDDYY-TTTT: Product Month Date Year and Time; N: Operator No.; H=3.5mm;

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		
DC Resistance (Ω/km) Inner	≤ 1.5		
DC Resistance (Ω/km) Outer	≤ 1.34		
Return Loss (VSWR)	Typical	Max	
	0 - 3000 MHz	≤ -23.1 dB (1.15)	≤ -21.7 dB (1.18)
	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)
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)
400 MHz	2.29	3.67	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	2600 MHz	6.42	1.31
1000 MHz	3.76	2.24	2700 MHz	6.56	1.28

*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 Net Weight	≥ 410 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_06/3	305 m ⁴⁾	Drum	TBD
C78N_06/5	500 m ⁵⁾	Drum	TBD

*4) The tolerance on the delivery length is: ± 5%; 5) The tolerance on the delivery length is: ± 10%;

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 2002/95/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