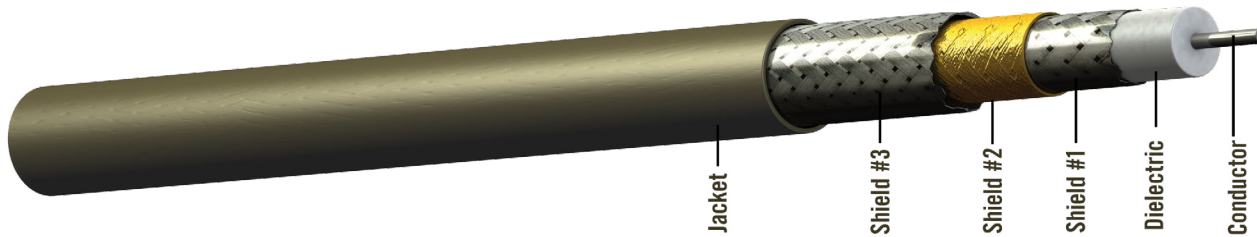


HT77210F



CABLE CONSTRUCTION

Conductor: Silver-Plated Copper

Dielectric: PTFE

Shield #1: Silver-Plated Copper Flat Strip Braid

Shield #2: Aluminum/Polyimide Foil

Shield #3: Silver-Plated Copper Braid

Jacket: Extruded FEP, Olive Drab

HT77210F is a 50-Ohm microwave coaxial cable designed for high-frequency applications on the Ku band and X band. HT77210F microwave cables are designed to optimize performance and give system designers flexibility. Our products give you superior signal integrity, low insertion loss, less RF interference, and a robust yet easy-to-install design.

PHYSICAL DATA

Conductor:	16 AWG Solid SPC
Temperature Range:	-55 to +200°C
Outer Diameter: in (mm)	0.208 (5.28)
Minimum Bend Radius: in (mm)	1 (25.4)
Weight: lbs/100 ft (kg/100 m)	4.5 (6.7)

ENVIRONMENTAL DATA

Skydrol Resistant:	SAE AS4373E, Method 601
RoHS Compliant:	RoHS Directive 2002/95/EC
Flame / Smoke Requirements:	FAR Part 25.869 (a) App. F, Part 1, (a)(3)
Berry Specialty Metals Compliance:	DFARS 252.225-7014, Alt 1

ELECTRICAL DATA

Impedance:	50 ohms
Capacitance: pF/ft (m)	26.5 (86.9)
Velocity of Propagation:	76.5%
Time Delay: ns/ft (m)	1.33 (4.36)
Shielding Effectiveness: dB/min	-90
DC Resistance: ohms/1000 ft (m)	3.9 (12.8)

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max dB/100 m
@6.0 GHz	20.0/22.0	(65.6/72.2)
@12.0 GHz	29.5/32.5	(96.8/106.6)
@18.0 GHz	37.3/40.1	(122.4/131.6)
@26.0 GHz	46.2/50.9	(151.6/167.0)

Formula for Attenuation:
 $(K1 \times \sqrt{F(\text{MHz})}) + (K2 \times F(\text{MHz}))$

K Values (nom loss):
 K1 = 0.232 K2 = 0.00034

All values nominal, unless otherwise noted

HT77210F HIGH FREQUENCY COAX CABLE

CONTACTS/CONNECTORS FOR HT77210F

M39012 CONNECTORS

PART #	CONNECTOR TYPE
120508	TNC Straight Plug
120509	TNC 90° Plug
120521	TNC Bulkhead Jack
120510	N Straight Plug
120511	N 90° Plug
120514	SMA Straight Plug
120515	SMA 90° Plug
120534	BMB Jack Snap Mount

**For quality assurance, this cable is sold in an assembly only.*