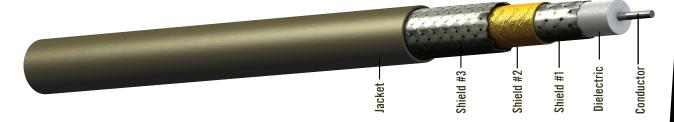
HT77300F



Jacket:

CABLE CONSTRUCTION

Conductor: Silver-Plated Copper

Dielectric: PTFE

Shield #1: Silver-Plated Copper Flat Strip **Shield #2** Aluminum/Polyimide Foil

HT77300F is a 50-0hm microwave coaxial cable designed for high-frequency applications on the Ku band and X band. HT77300F microwave cables give you superior signal integrity, low insertion loss, less RF interference, and a robust yet easy-to-install design. These are designed to optimize performance and give system designers flexibility.

PHYSICAL DATA

Conductor: 12 AWG Solid SPC
Temperature Range: -55 to +200°C
Outer Diameter: in (mm) 0.300 (7.62)
Minimum Bend Radius: in (mm) 1.5 (38.1)
Weight: lbs/100 ft (kg/100 m) 8.8 (13.1)

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: 77%
Time Delay: ns/ft (m) 1.33 (4.36)
Shielding Effectiveness: dB min
DC Resistance: ohms/1000 ft (m) 1.4 (4.6)

Shield #3: Silver-Plated Copper Braid

Extruded FEP, Olive Drab

ATTENUATION DATA

	Nom / Max	Nom / Max
Frequency	dB/100 ft	(dB/100 m)
@12.0 GHz	19.5/21.5	(64.0/70.5)
@15.0 GHz	22.2/24.4	(72.8/80.1)
@18.0 GHz	24.7/27.2	(81.0/89.2)

Formula for Attenuation:

 $(K1 \times \sqrt{F(MHz)} + (K2 \times F(MHz))$

K Values (nom loss):

K1 = 0.15 K2 = 0.000255

All values nominal, unless otherwise noted





CONTACTS/CONNECTORS FOR HT77300F

M39012 CONNECTORS

PART #	CONNECTOR TYPE	
120208	TNC Straight Plug	
120209	TNC 90° Plug	
120221	TNC Bulkhead Jack	
120210	N Straight Plug	
120211	N 90° Plug	
120214	SMA Straight Plug	
120215	SMA 90° Plug	

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

