# PIC MATES • 50 OHM COAXIAL CABLE

# HH85295F



#### **CABLE CONSTRUCTION**

Conductor: Silver-Plated Copper Dielectric: PTFE Shield #1: Silver-Plated Copper Flat Spiral Shield #2:Silver-Plated Copper BraidJacket:Extruded ETFE, Olive Drab

HH85295F is a 50-Ohm microwave coaxial cable designed for high-frequency applications on the Ku band and X band. HH85295F provides superior signal integrity, low insertion loss, less RF interference, and a robust yet easy-to-install design. The HH85295F coaxial cable is a 100% shielded construction, incorporating a flat spiral-wrapped shield that achieves -110 dB shielding effectiveness, the same as a solid copper tube. The inner spiral shield conforms to the lowloss PTFE dielectric for superior uniformity and stability of all operation parameters, initially and over time.

#### **PHYSICAL DATA**

Conductor: Temperature Range: Outer Diameter: in (mm) Minimum Bend Radius: in (mm) Weight: lbs/100 ft (kg/100 m)

#### 11 AWG Solid SPC -55 to +200°C 0.291 (7.39) 1.5 (38.1) 7.9 (11.8)

#### **ENVIRONMENTAL DATA**

Skydrol Resistant:SAE AS4373E, Method 601RoHS 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)	24 (78.7)
Velocity of Propagation:	83%
Time Delay: ns/ft (m)	1.21 (3.97)
Shielding Effectiveness: dB/min	-110
DC Resistance: ohms/1000 ft (m)	1.3 (4.1)

## **ATTENUATION DATA**

	Nom / Max	Nom / Max
Frequency	dB/100 ft	(dB/100 m)
@12.0 GHz	15.4/17.0	(50.5/55.8)
@15.0 GHz	17.7/19.5	(58.1/64.0)
@18.0 GHz	19.7/21.8	(64.6/71.5)

#### Formula for Attenuation:

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

#### K Values (nom loss):

K1 = 0.111 K2 = 0.00027



# CONTACTS/CONNECTORS FOR HH85295F

## M39012 CONNECTORS

PART #	CONNECTOR TYPE	
120608	TNC Straight Plug	
120609	TNC 90° Plug	
120621	TNC Bulkhead Jack	
120610	N Straight Plug	
120611	N 90° Plug	
120622	N Bulkhead Jack	
120614	SMA Straight Plug	
120615	SMA 90° Plug	

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



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