

# HITACHI CABLE AMERICA

## Customer Specification

HCM - 40137/1

**RFQ #:** 47469

**ITEM DESCRIPTION:** 75 OHM MINI COAX CABLE, CONSISTING OF SINGLE CONDUCTOR, 30 AWG, DUAL BRAID SHIELDED WITH AN FEP JACKET. (UL) 1943

**COMPONENT:**

**CONDUCTOR:** 30 AWG 7/38 SILVER COPPER  
.012" NOM OD

**INSULATION:** FEP  
.060" NOM OD  
.024" AVG WALL

COPPER DIAMETER CONVERSION: 0.304 MM

PRIMARY DIAMETER CONVERSION: 1.524 MM

**BRAID SHIELD:**

**CONDUCTOR:** 5 ENDS 38 AWG SILVER COPPER  
95% MIN. COVERAGE

**BRAID SHIELD:**

**CONDUCTOR:** 6 ENDS 38 AWG SILVER COPPER  
93% MIN. COVERAGE

**OVERALL JACKET:**

FEP BROWN  
.120" +/- .003" NOM OD  
.014" AVG WALL

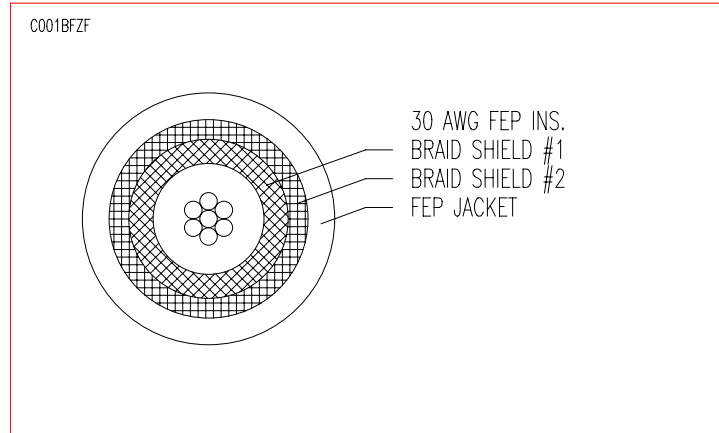
JACKET DIAMETER CONVERSION: 3.048 +/- 0.0762 MM

HITACHI CABLE AMERICA 900 Holt Avenue-East Industrial Park Manchester, N.H. 03109 (603) 669-4347	Drawn By: DSA Date: 05/15/98 Checked By: MGR Date: 05/15/98 Issued By: MGR Date: 05/15/98	REV# I
	THIS PRODUCT MADE IN THE U.S.A.	
ITEM: 40137-0001-998-XXX-100-S-01000-4862-00	PAGE 1 of 3 Approved By: Date:	


# HITACHI CABLE AMERICA

## Customer Specification

HCM - 40137/1



### MARKING:

THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT LEGEND:  
**HITACHI CABLE AMERICA - HCM 40137 75 OHM 30 AWG -  AWM  
STYLE 1943 30V 105C VW-1 - ZZ/DD/YY HR:MN (XXXX)**

**WHERE: ZZ = MONTH OF MFG.**

**DD = DATE OF MFG.**

**YY = YEAR OF MFG.**

**HR = HOUR (MILITARY)**

**MN = MINUTE**

**XXXX = JOB NUMBER**

### AGENCY APPROVALS:

U.L. RECOGNIZED AWM STYLE 1943, 105C, 30V.

USE: FOR INTERNAL WIRING OF ELECTRONIC EQUIPMENT.

ENVIRONMENTAL COMPLIANCE\*

ROHS (RECAST) EU DIRECTIVE 2011/65/EU

REACH - EU REGULATION 1907/2006

\*ALLOWABLE LIMITS SUBJECT TO CHANGE - COMPLIANT ON  
DATE OF LATEST REVISION OF HITACHI SPECIFICATION

# HITACHI CABLE AMERICA

## Customer Specification

HCM - 40137/1

### TYPICAL ELECTRICAL CHARACTERISTICS:

TDR measurement parameters...

Sample Length: 10 feet

Rise Time: 70 ps

Impedance:

Capacitance:

DC Resistance:

Time Delay:

Velocity of Propagation:

Dielectric Strength (no breakdown):

Voltage Rating:

Temperature Rating:

75 ± 3 Ohms (Avg of 2 & 4ns pts.)

65 pF/m nom @ 1 kHz

0.326 Ohms/m @ 20°C max

4.75 ns/m nom

70% nom

500 VDC for 1 minute

30 Volt

-70°C to +150°C

S-parameter set-up...

Sample Length: 5 meter

Sweep Range: 100 MHz to 1000 MHz

Frequency step: 0.56 MHz

Attenuation (S21)...

Frequency (MHz)

100

200

300

400

500

700

1000

dB/meter (max)

0.28

0.40

0.50

0.60

0.69

0.86

1.07

Rev	Revision	Date	By	Appvd	PAGE 3 of 3
G	RFQ DETAILS	11/04/10	JME	JME	
H	ADDED METRIC CONVERSION & UPDATED ELECTS	06/13/11	KDA	KDA	
I	REVISED PRINT & JACKET WALL THICKNESS	06/24/13	KDA	KDA	