

### MATERIAL(S):

End2 connector:  
See TM7S-H2S-9MS-031 specification sheet.

Core HC2 connector:  
Front Body, Rear Body:  
BeCu Alloy per ASTM B-196  
Spring Pin:  
BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze  
Ground Slider & Nut:  
Brass Alloy C3604B  
Insulator: TPX / PTFE  
Dielectric: Ultem/TPX  
Spring: Music Wire  
Shell: LCP Vectra E130i  
Dowel Pin, Screw & Clip: Stainless Steel.  
Cable: UFC092D

### ELECTRICAL(S):

Impedance: 50 Ohms Nominal  
Frequency Range: DC to 40 GHz  
VSWR: 1.25:1 DC to 26 GHz  
1.40:1 26 to 40 GHz  
Insertion Loss:  
1.60 dB DC to 26 GHz  
2.04 dB 26 to 40 GHz  
Working Voltage: 335 Vrms max @ Sea Level  
Test Voltage: 500 Vrms  
Insulation Resistance: 5000 MegOhms min.  
Contact Current: 1A DC max.  
Contact Resistance:  
Center Contact: 100 mΩ  
Phase: Matched In Pairs @ 2.0 pS.

### MECHANICAL(S):

Mating Characteristics:  
2.92mm Interface per MIL-STD-348  
CORE HC2 Interface per CarlisleIT

Force to Engage:  
2.92mm: 2 In-lbs max  
CoreHC2 (Individual): .5 Lbs Typ.

Connector Durability:  
2.92mm: 500 Cycles @ 12 cycles/min. max  
CoreHC2: 20,000 Cycles @ 12 cycles/min. max

Permeability: Less than 2.0 mu.

Coupling Proof Torque:  
2.92mm: 15 in-lb

### ENVIRONMENTAL(S):

Temperature Range: -65°C to +150°C  
Thermal Shock:  
MIL-STD-202, Method 107, Test Condition F

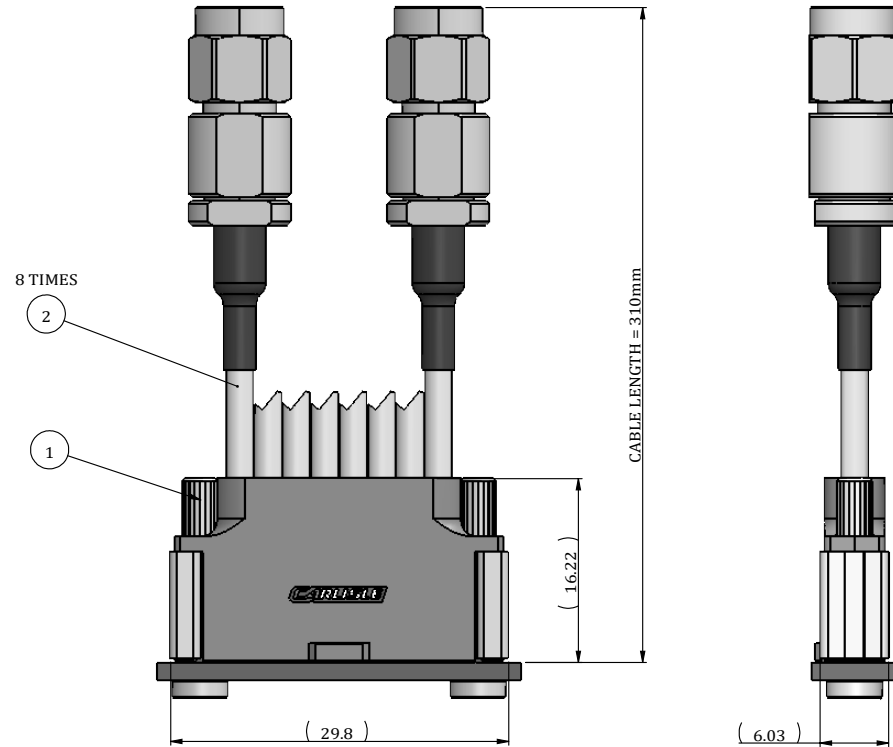
Moisture Resistance:  
MIL-STD-202, Method 106, Insulation resistance  
at least 200 MegaOhms within 5 minutes after  
removal from humidity.

Corrosion:  
MIL-STD-202, Method 101, Test Condition C

Vibration:  
MIL-STD-202, Method 204, Test Condition A,  
except 5g Peak

Shock:  
MIL-STD-202, Method 213, Test Condition I,  
except 10g Peak

REV.	REGION	DESCRIPTION	DATE	BY
A		PRELIMINARY RELEASED	14.May.19	Falcon



#### NOTE(S):

1. NUTS TO BE PACKED AND SHIPPED UN-ASSEMBLED WITH FULLY ASSEMBLED CABLE ASSEMBLY.
2. NUTS TO BE PRESS FIT INTO PCB ON CUSTOMER SIDE .
3. CUSTOMER NEED TO USE THUMB SCREW TO LOCK CONNECTOR WITH PCB TIGHTLY .
4. NOMINAL TOLERANCE REFER TO ISO2768-F.
5. CABLE LENGTH TOLERANCE REFER TO ISO2768-V, AND TOLERANCE VALUE MULTIPIED BY 2.

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QTY
2	TM7S-H2S-9MS-031	COREHC 2.5MM TO 2.92(M) ON 079 CABLE , 31CM	N/A	8
1	TM7S-SH28S	HOUSING BUCKET	N/A	1

ISO2768-V (mm)					
6~30	30-120	120~400	400~1K	1K~2K	>2K
±1	±1.5	±2.5	±4	±6	±8
ISO2768-F (mm)					
0.5~3	3~6	6~30	30~120	120~400	400~1000
±0.05	±0.05	±0.1	±0.1	±0.2	±0.3

☆ KEY DIMENSION NEED 100% INSPECTION  (XX) REF. DIMENSION FOR REF. ONLY	DRAWN: Falcon	Dongguan City,Guangdong P.R. China 523533	
	CHECKED:		
	APPROVED:		
INFORMATION CONTAINED ON THIS DRAWING IS CONFIDENTIAL AND MAY ALSO CONTAIN PROPRIETARY CARLISLE/CUSTOMER INFORMATION. DRAWING CONTENT IS ONLY INTENDED FOR USE OF THE ABOVE CUSTOMER IF YOU ARE NOT THE INTENDED RECIPIENT OR AUTHORIZED EMPLOYEE OF ABOVE COMPANY NAME, YOU ARE HEREBY NOTIFIED ANY USE, DUPLICATION, RECONSTRUCTION, OR DISTRIBUTION OF DRAWING INFORMATION IS STRICTLY PROHIBITTED.		MATERIAL:  PROJECT NAME: CoreHC 079 Assy, 1xRow HC2 8CH to 2.92mm(M), 31cm	
PART NUMBER: TM7S-SH28S-9MS-031	SIZE A4	PART NAME: FINISHED GOODS ASSY	REVISION: A DATA: 14.May.19
SCALE 2:1	DO NOT SCALE DRAWING		SHEET 1 OF 1