

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 m Ω
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

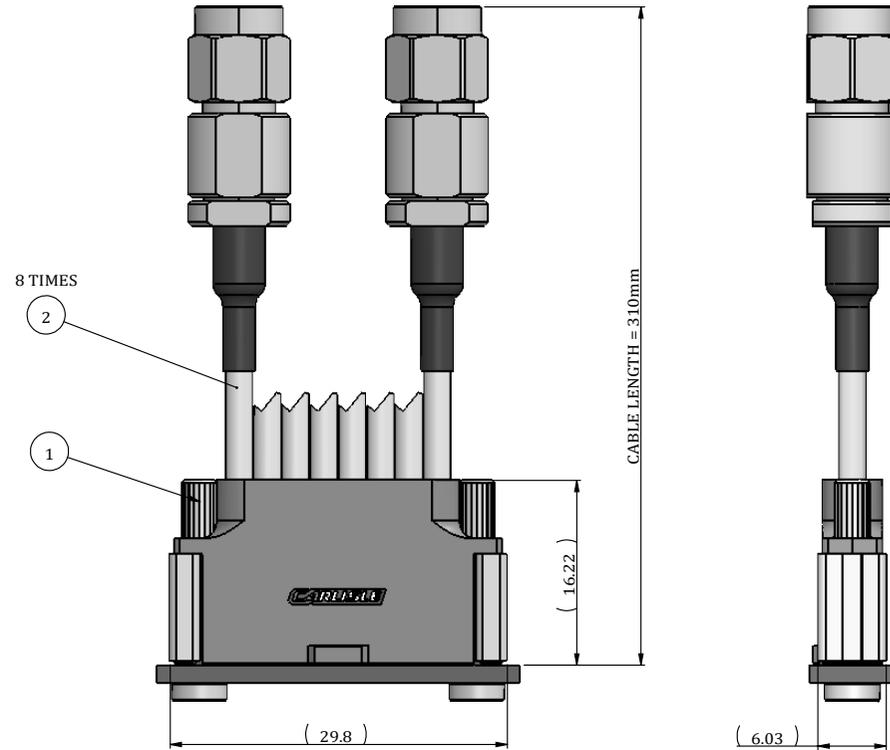
Moisture Resistance:
MIL-STD-202, Method 106, Insulation resistance
at least 200 MegaOhms within 5 minutes after
removal from humidity.

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

★ KEY DIMENSION NEED 100% INSPECTION (XX) REF. DIMENSION FOR REF. ONLY	DRAWN: Falcon	CARLISLE INTERCONNECT TECHNOLOGIES	Dongguan City,Guangdong P.R. China 523533		
	CHECKED:		PROJECT NAME: CoreHC 079 Assy, 1xRow HC2 8CH to 2.92mm(M), 31cm		
APPROVED:		MATERIAL:	PART NUMBER: TM7S-SH28S-9MS-031		
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		SCALE 2:1		DO NOT SCALE DRAWING	
				SHEET 1 OF 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