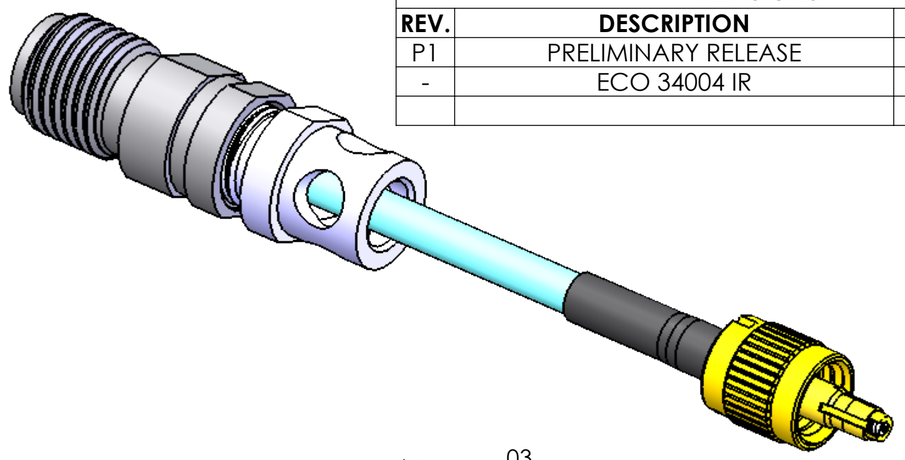
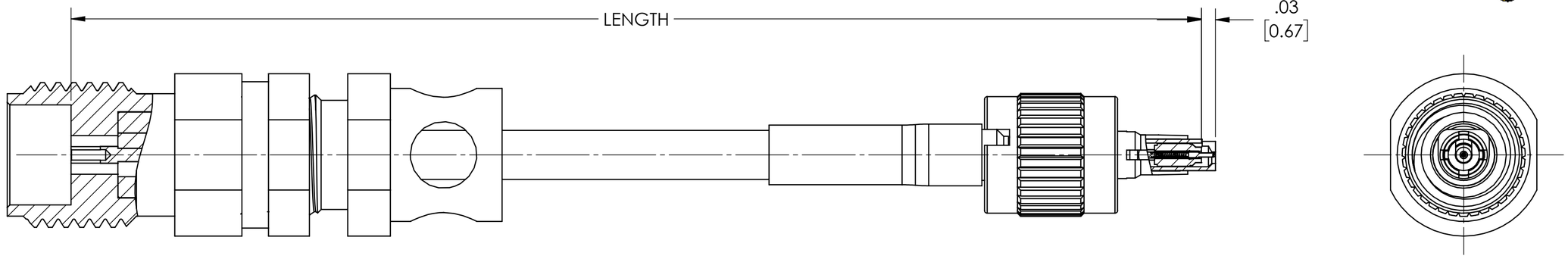
SECURE THREAD CABLE P/N [1]	PHASE MATCHING (pS max)	PART NUMBER WITH CABLE LENGTH ORDERING INFORMATION
1V8H1492HAXX	2.0	SEE SHEET 2
1V8H1492HBXX	5.0	
1V8H1492HCXX	10.0	

REVISIONS			
REV.	DESCRIPTION	DATE	BY
P1	PRELIMINARY RELEASE	07.23.18	HT
-	ECO 34004 IR	08.06.18	SM





NOTE(S):

[1] "XX" IN PART NO SPECIFIES CABLE LENGTH. SEE SHEET 2 FOR STANDARD LENGTHS.

MATERIAL(S):

1.85mm connector:
See TM092C-8F specification sheet.
Core HC connector:
Front Body, Rear Body & Retaining Ring:
BeCu Alloy per ASTM B-196
Spring Pin:
BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze
Ground Slider & Coupling Nut:
Brass Alloy C3604B
Insulator: TPX / PTFE
Dielectric: Ultem/ TPX
Spring: Music Wire
Cable: UFC092D

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 65 GHz
VSWR: 1.25:1 DC to 26 GHz
1.40:1 26 to 40 GHz
1.60:1 40 to 65 GHz
Insertion Loss: See table
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: See Configurations Matched Pairs

MECHANICAL(S):

Mating Characteristics:
1.85mm Interface per CarlisleIT
CORE HC2 Interface per CarlisleIT
Force to Engage:
1.85mm: 2 In-lbs max
CoreHC2 (Individual): .5 Lbs Typ.
Connector Durability:
1.85mm: 500 Cycles @ 12 cycles/min. max
CoreHC2: 20,000 Cycles @ 12 cycles/min. max
Permeability: Less than 2.0 mu.

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

FINISH(ES):

CoreHC2 Body, Ground Slider, Coupling Nut & Spring Pin:
Gold plate per ASTM B-488 over Nickel underplate per SAE AMS-QQ-N-290.
Spring & Retaining Ring:
Nickel Plating

APPLICABLE CARLISLE IT DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA
-		

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32
1. MACHINE FINISH: 63 RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

-	-	-
MATERIAL	SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	HT	07.23.18
CHECKED BY	-	-
TEST ENGR	-	-
QUALITY	-	-
DESIGN ENG	HT	08.01.18
MFG. ENGR	-	-
ECO APPRV	HT	08.08.18

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: HC2 (2.5mm), CPW, SECURE THREAD TO 1.85mm (F), Ø.079 DIA. CABLE ASSEMBLY

SCALE	SUB-DIRECTORY/	SHEET
4:1	_OUTLINE\	1 OF 2

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	1V8H1492H	-

ENG-SW REV. E

SECURE THREAD CABLE P/N	LENGTH inch (mm) ±0.25 (±6)		INSERTION LOSS dB max	PHASE, pS max	Cable PN, Ref.
1V8H1492HA06	6.00	(152)	1.62	2.0	1V8H2492HA06
1V8H1492HA12	12.00	(305)	2.71		1V8H2492HA12
1V8H1492HA18	18.00	(457)	3.81		1V8H2492HA18
1V8H1492HA24	24.00	(610)	4.90		1V8H2492HA24
1V8H1492HA30	30.00	(762)	6.00		1V8H2492HA30
1V8H1492HA36	36.00	(914)	7.09		1V8H2492HA36
1V8H1492HA42	42.00	(1067)	8.19		1V8H2492HA42
1V8H1492HA48	48.00	(1219)	9.28		1V8H2492HA48
1V8H1492HB06	6.00	(152)	1.62	5.0	1V8H2492HB06
1V8H1492HB12	12.00	(305)	2.71		1V8H2492HB12
1V8H1492HB18	18.00	(457)	3.81		1V8H2492HB18
1V8H1492HB24	24.00	(610)	4.90		1V8H2492HB24
1V8H1492HB30	30.00	(762)	6.00		1V8H2492HB30
1V8H1492HB36	36.00	(914)	7.09		1V8H2492HB36
1V8H1492HB42	42.00	(1067)	8.19		1V8H2492HB42
1V8H1492HB48	48.00	(1219)	9.28		1V8H2492HB48
1V8H1492HC06	6.00	(152)	1.62	10.0	1V8H2492HC06
1V8H1492HC12	12.00	(305)	2.71		1V8H2492HC12
1V8H1492HC18	18.00	(457)	3.81		1V8H2492HC18
1V8H1492HC24	24.00	(610)	4.90		1V8H2492HC24
1V8H1492HC30	30.00	(762)	6.00		1V8H2492HC30
1V8H1492HC36	36.00	(914)	7.09		1V8H2492HC36
1V8H1492HC42	42.00	(1067)	8.19		1V8H2492HC42
1V8H1492HC48	48.00	(1219)	9.28		1V8H2492HC48

SCALE	SUB-DIRECTORY/	SHEET 2 OF 2
3:1	_OUTLINE\	
SIZE C	CAGE CODE 30990	DRAWING NO. 1V8H1492H
		REV. -

ENG-SW REV. E