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4		3		2		1		
				REVISION HISTORY				
				ECO	REV.	DESCRIPTION	DRAWN BY	DATE
					P1	PREMINARY RELEASE	HTRAN	10.09.25
					P2	ADD TABLE & UPDATE NOTES	HTRAN	10.15.25
				204811	A	INITIAL RELEASE	HTRAN	10.20.25
				205028	B	P/n CHANGE: TM4CXXXXXXXXXXXXX-X (ADD -X CODE: COUNTRY OF ORIGIN-C.O.O.)	HTRAN	11.20.25
TABLE 1: CABLE P/N MATRIX: TM XX X XXX XXX XXX X X -X								
①②③④⑤⑥⑦⑧⑨								
①	②	③	④	⑤	⑥	⑦	⑧	⑨
PREFIX; TM	CABLE TYPE: XX	HST TYPE: X	CONNECTOR 1 XXX	CONNECTOR 2 XXX	LENGTH: XXX	PHASE MATCHED X	ORIENTATION (Cryo BOTH END) X	CONTRY OF ORIGIN (C.O.O.) -X
TM	4C- Cryo (NM) 0.047"	S- HEATSHRINK SHORT M-HEATSHRINK MEDIUM L-HEATSHRINK LONG X-NO HEATSHRINK	SEE TABLE 2	SEE TABLE 3	3 DIGITS ALWAYS EG: 3cm=003 15cm=015 120cm=120	C +/- 2ps (PAIR) (AS STANDARD) D +/- 1ps (PAIR) E +/- 0.5ps (PAIR) F +/- 2ps (LOT) G +/- 1ps (LOT) H +/- 0.5ps (LOT)	1: OPPOSITE 2: SAME	NULL: C.O.O. CN: BUILD TO FG (CN) -U: C.O.O. USA: BUILD FG LEVEL ONLY (USA) -Y: MAKE IN USA: BUILD TO FG (USA)

TABLE 2: CONNECTOR 1		
CONNECTOR CODE	PART #	DESCRIPTION
C2S	TM14-0189-01	CoreCryo, Straight, Ø.047 Cable, CPW
S2S	TM14-0189-02	CoreCryo, Straight, Ø.047 Cable, Stripline (Optional)

TABLE 3: CONNECTOR 2		
CONNECTOR CODE	PART #	DESCRIPTION
C2S	TM14-0189-01	CoreCryo, Straight, Ø.047 Cable, CPW
S2S	TM14-0189-02	CoreCryo, Straight, Ø.047 Cable, Stripline (Optional)
2MS	TM14-0338-00	SMA(M), Straight, Ø.047 Cable
2FS	TM14-0339-00	SMA(F), Straight, Ø.047 Cable
PFS	TM14-0340-00	SMP(F), Straight, Ø.047 Cable
MFS	TM14-0341-00	SMPPM(F), Straight, Ø.047 Cable

NOTE(S):
1. CABLE P/N IS DEFINED IN TABLES 1, TABLE 2 & TABLE 3.

RoHS 3
Compliant
EU 2015/863

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DIMENSIONS ARE IN MILLIMETERS [INCHES]
± TOLERANCES UNLESS OTHERWISE NOTED

X ± 0.3mm [.012"] XX ± 0.15mm [.006"]
XXX ± 0.050mm [.002"] XXXX ± 0.010mm [.0004"]
ANGLE ± 0.5°

THIRD ANGLE PROJECTION

-		-		-	
MATERIAL		APPROVAL	INITIALS	DATE	
DRAWN BY	HT			10.09.25	
CHECKED BY					
TEST ENG					
QUALITY					
DESIGN ENG	HT			10.09.25	
MFG ENG	LC			11.25.25	
ECO APPRV	HT			11.21.25	

SPECIFICATION		PROCUREMENT	
Amphenol		12900 Alondra Blvd. Cerritos, CA 90703	
TITLE CoreCryo to CoreCryo/PRECISION CONNECTOR, 047 CABLE ASSEMBLY (NON-MAGNETIC)			
SCALE 4:1	SUB-DIRECTORY/ TMXX\		SHEET 1 OF 6
SIZE C	CAGE CODE 30990	DRAWING NO. TM4CXXXXXXXXXXXXX-X	REV. B

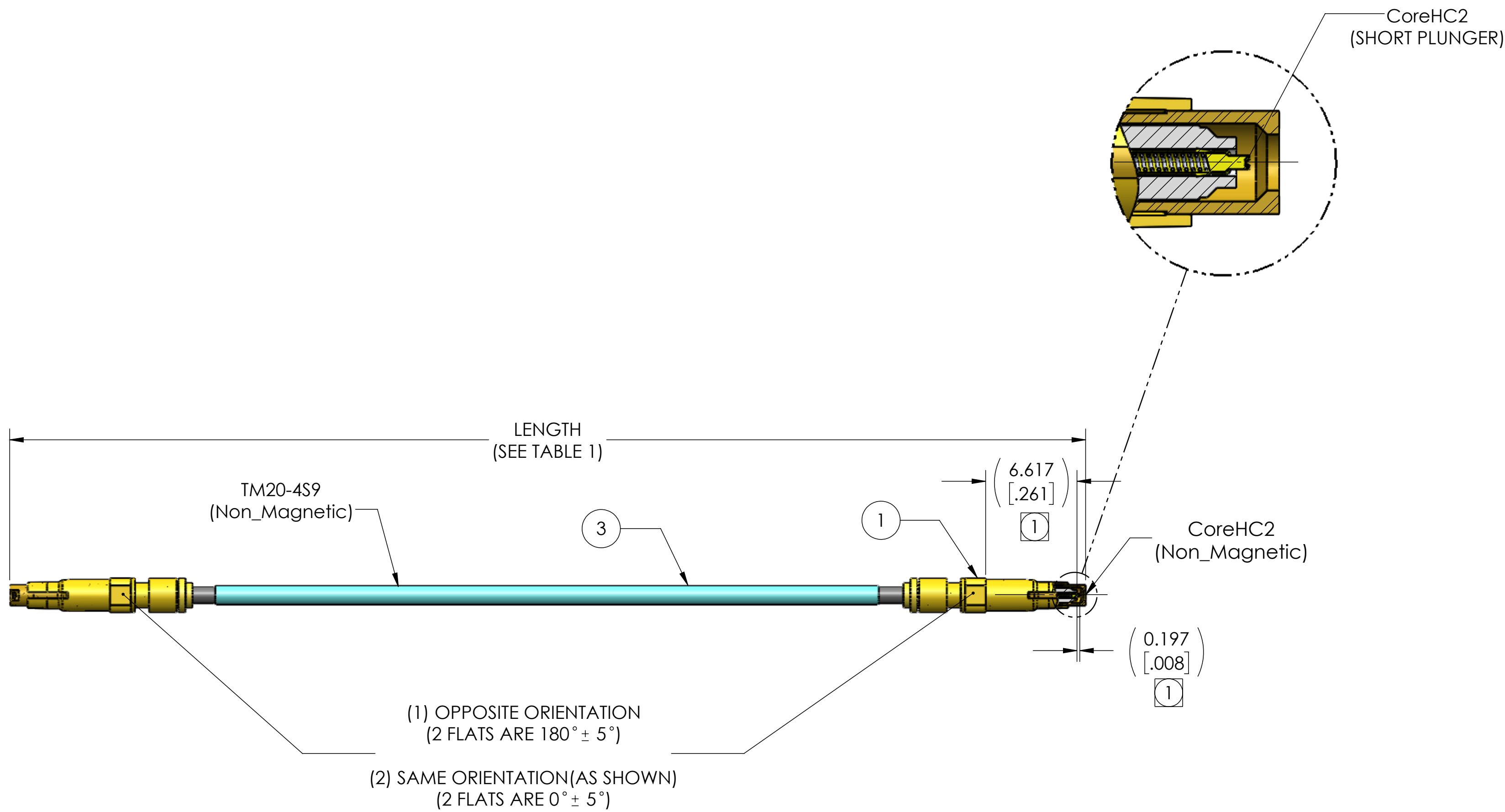
ENG-SW REV. K

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1



NOTE(S)

1. CoreCryo INTERFACE PER DRAWING TM14-0189-01/-02
2. SOLDER PER IPC J-STD-001, USING LEAD FREE SOLDER.
3. ELECTRICAL PERFORMANCE: SEE TABLE

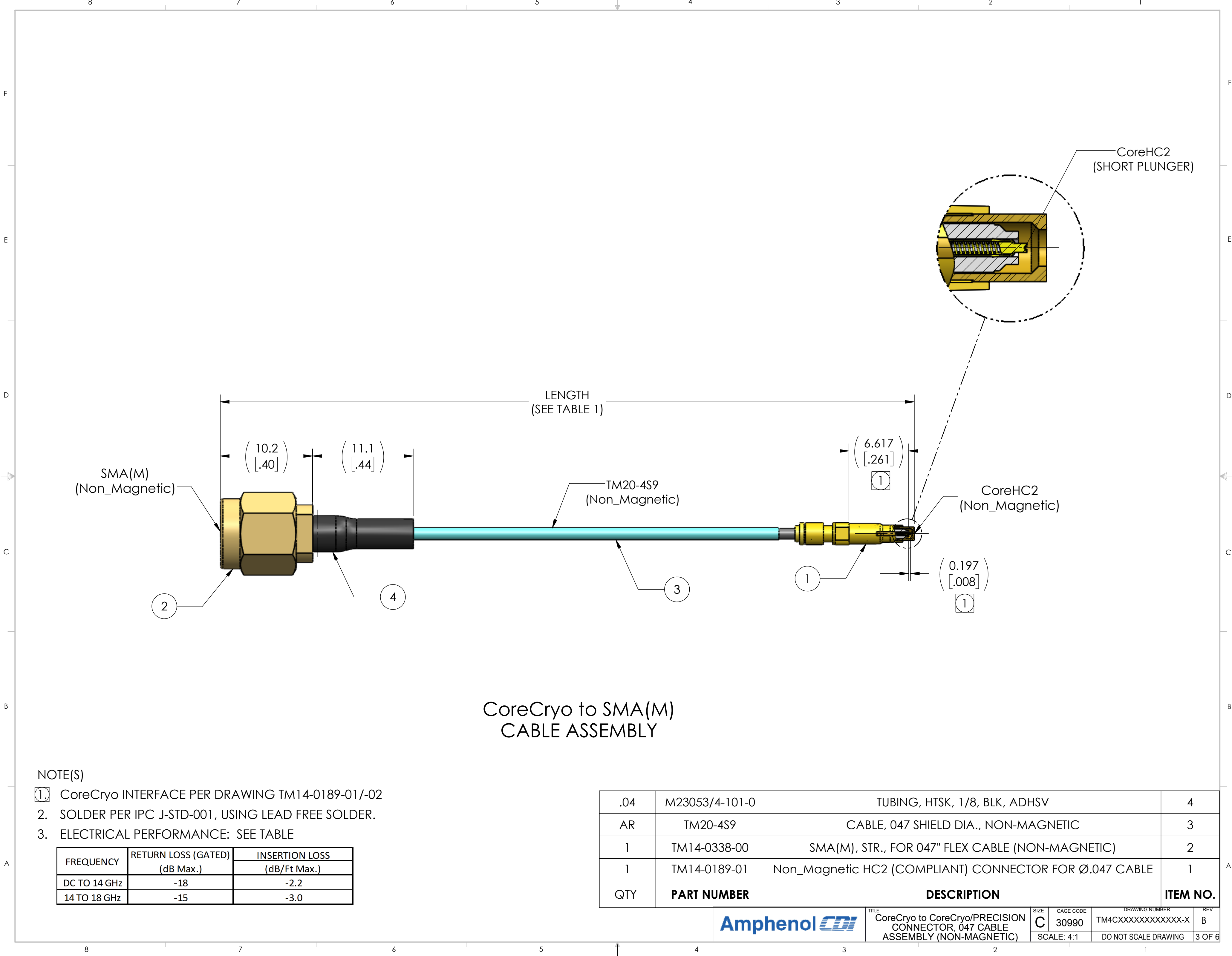
FREQUENCY	RETURN LOSS (GATED) (dB Max.)	INSERTION LOSS (dB Max.) (L = 310mm) (12.2")
DC TO 14 GHz	-18	-2.2
14 TO 26 GHz	-15	-3.0

CoreCryo to CoreCryo
CABLE ASSEMBLY

AR	TM20-4S9	CABLE, 047 SHIELD DIA., NON-MAGNETIC	2
2	TM14-0189-01	Non_Magnetic HC2 (COMPLIANT) CONNECTOR FOR Ø.047 CABLE	1
QTY	PART NUMBER	DESCRIPTION	ITEM NO.

Amphenol **CDI**

TITLE	SIZE	CAGE CODE	DRAWING NUMBER	REV
CoreCryo to CoreCryo/PRECISION CONNECTOR, 047 CABLE ASSEMBLY (NON-MAGNETIC)	C	30990	TM4CXXXXXXXXXXXX-X	B
SCALE: 4:1	DO NOT SCALE DRAWING	2 OF 6		

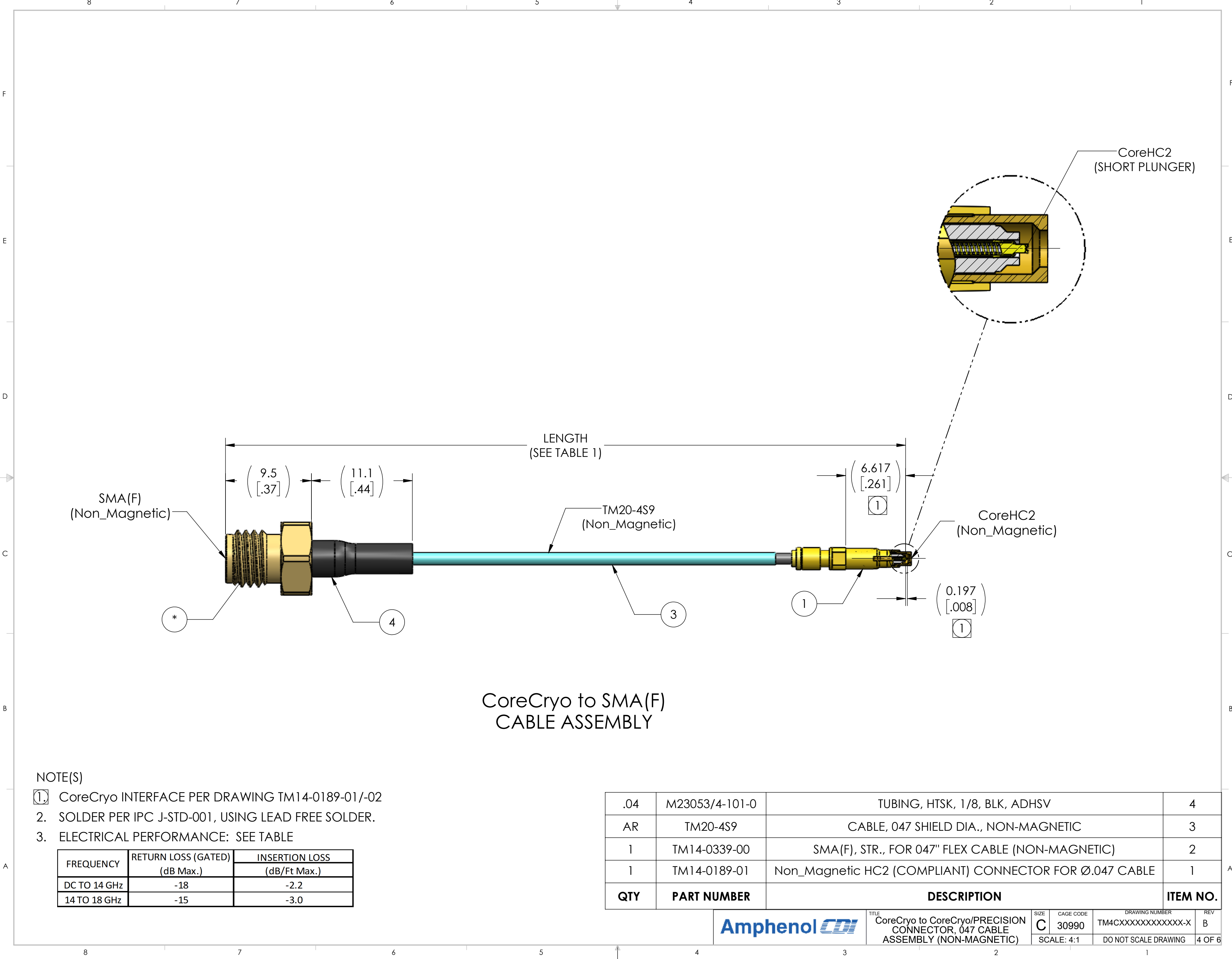


NOTE(S)

- 1. CoreCryo INTERFACE PER DRAWING TM14-0189-01/-02
- 2. SOLDER PER IPC J-STD-001, USING LEAD FREE SOLDER.
- 3. ELECTRICAL PERFORMANCE: SEE TABLE

FREQUENCY	RETURN LOSS (GATED)	INSERTION LOSS
	(dB Max.)	(dB/Ft Max.)
DC TO 14 GHz	-18	-2.2
14 TO 18 GHz	-15	-3.0

.04	M23053/4-101-0	TUBING, HTSK, 1/8, BLK, ADHSV	4
AR	TM20-4S9	CABLE, 047 SHIELD DIA., NON-MAGNETIC	3
1	TM14-0338-00	SMA(M), STR., FOR 047" FLEX CABLE (NON-MAGNETIC)	2
1	TM14-0189-01	Non_Magnetic HC2 (COMPLIANT) CONNECTOR FOR Ø.047 CABLE	1
QTY	PART NUMBER	DESCRIPTION	ITEM NO.

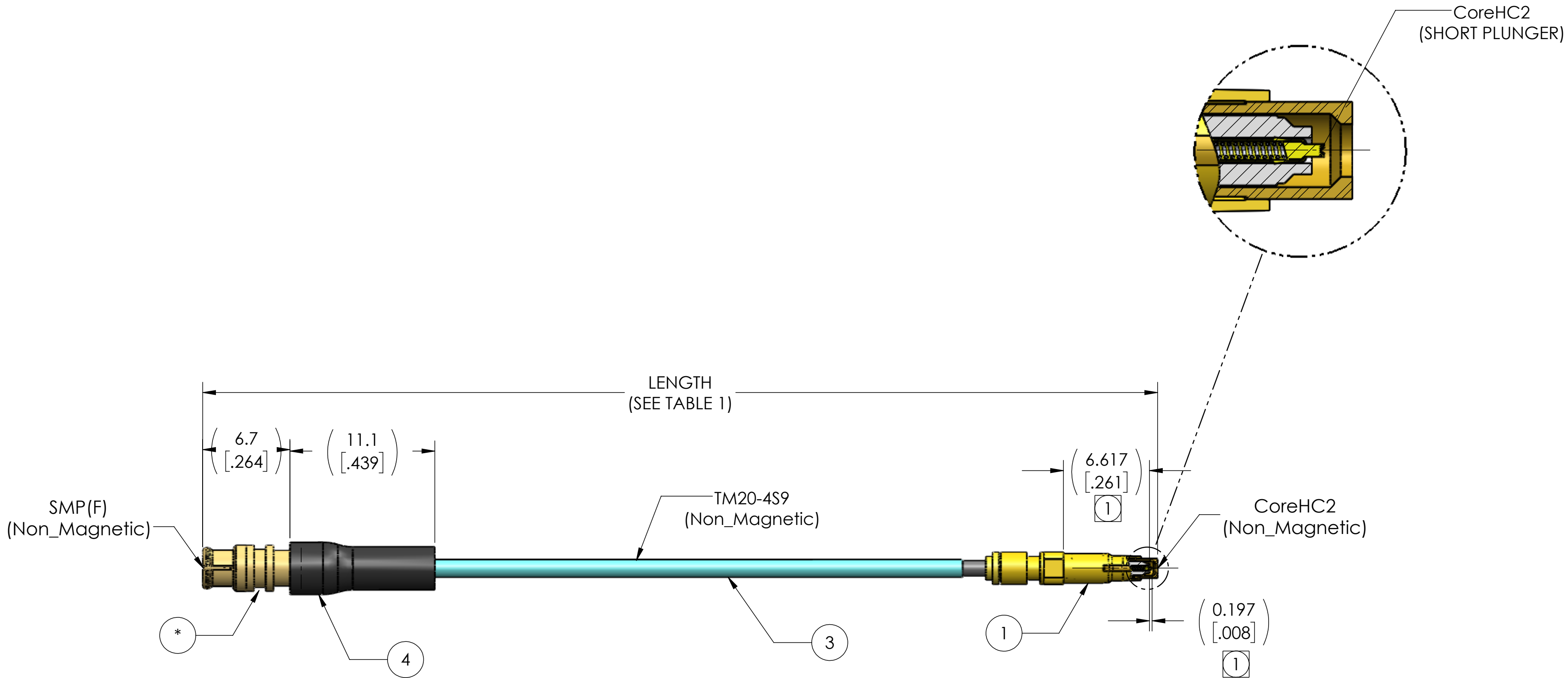


CoreCryo to SMA(F)
CABLE ASSEMBLY

- NOTE(S)
- 1. CoreCryo INTERFACE PER DRAWING TM14-0189-01/-02
 - 2. SOLDER PER IPC J-STD-001, USING LEAD FREE SOLDER.
 - 3. ELECTRICAL PERFORMANCE: SEE TABLE

FREQUENCY	RETURN LOSS (GATED)	INSERTION LOSS
	(dB Max.)	(dB/Ft Max.)
DC TO 14 GHz	-18	-2.2
14 TO 18 GHz	-15	-3.0

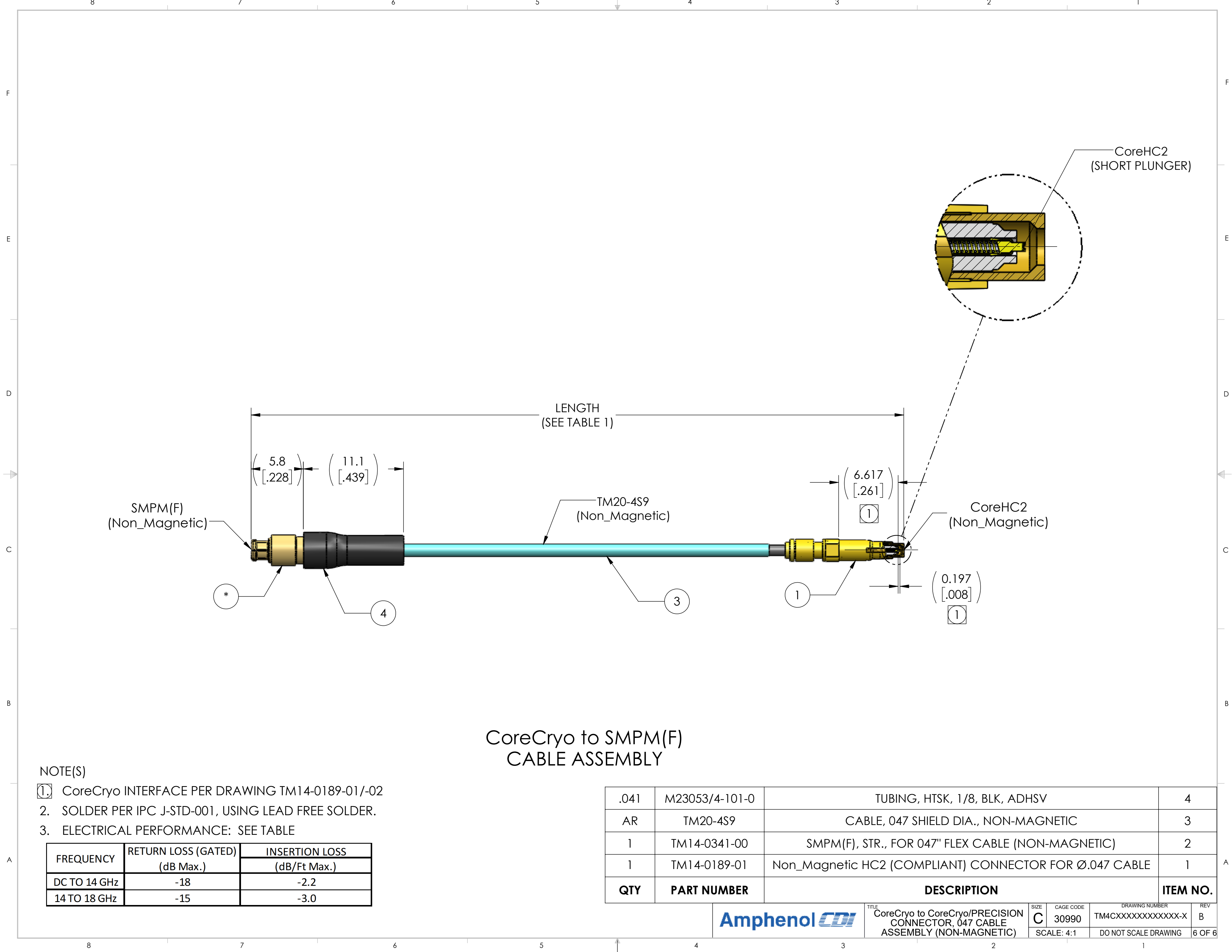
.04	M23053/4-101-0	TUBING, HTSK, 1/8, BLK, ADHSV	4
AR	TM20-4S9	CABLE, 047 SHIELD DIA., NON-MAGNETIC	3
1	TM14-0339-00	SMA(F), STR., FOR 047" FLEX CABLE (NON-MAGNETIC)	2
1	TM14-0189-01	Non_Magnetic HC2 (COMPLIANT) CONNECTOR FOR Ø.047 CABLE	1
QTY	PART NUMBER	DESCRIPTION	ITEM NO.



- NOTE(S)
1. CoreCryo INTERFACE PER DRAWING TM14-0189-01/-02
 2. SOLDER PER IPC J-STD-001, USING LEAD FREE SOLDER.
 3. ELECTRICAL PERFORMANCE: SEE TABLE

FREQUENCY	RETURN LOSS (GATED) (dB Max.)	INSERTION LOSS (dB/Ft Max.)
DC TO 14 GHz	-18	-2.2
14 TO 18 GHz	-15	-3.0

.04	M23053/4-101-0	TUBING, HTSK, 1/8, BLK, ADHSV	4
AR	TM20-4S9	CABLE, 047 SHIELD DIA., NON-MAGNETIC	3
1	TM14-0340-00	SMP(F), STR., FOR 047" FLEX CABLE (NON-MAGNETIC)	2
1	TM14-0189-01	Non_Magnetic HC2 (COMPLIANT) CONNECTOR FOR Ø.047 CABLE	1
QTY	PART NUMBER	DESCRIPTION	ITEM NO.



CoreCryo to SMPM(F)
CABLE ASSEMBLY

- NOTE(S)
- 1. CoreCryo INTERFACE PER DRAWING TM14-0189-01/-02
 - 2. SOLDER PER IPC J-STD-001, USING LEAD FREE SOLDER.
 - 3. ELECTRICAL PERFORMANCE: SEE TABLE

FREQUENCY	RETURN LOSS (GATED) (dB Max.)	INSERTION LOSS
		(dB/Ft Max.)
DC TO 14 GHz	-18	-2.2
14 TO 18 GHz	-15	-3.0

.041	M23053/4-101-0	TUBING, HTSK, 1/8, BLK, ADHSV	4
AR	TM20-4S9	CABLE, 047 SHIELD DIA., NON-MAGNETIC	3
1	TM14-0341-00	SMPM(F), STR., FOR 047" FLEX CABLE (NON-MAGNETIC)	2
1	TM14-0189-01	Non_Magnetic HC2 (COMPLIANT) CONNECTOR FOR Ø.047 CABLE	1
QTY	PART NUMBER	DESCRIPTION	ITEM NO.