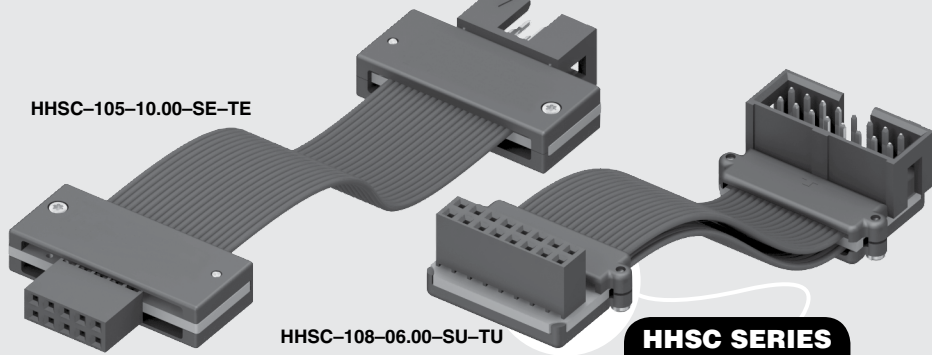




THE VITAL COMPONENT

(2.54 mm) .100"



HHSC SERIES

JTAG HIGH SPEED CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?HHSC

- Cable:** 38 AWG coax micro ribbon
- Signal Routing:** 50 Ω Single-Ended
- Overall Length:** (152 mm) 6" to (1 m) 40" standard
- Cable Flexing Life:** >40,000 cycles
- Cable Bending Radius:** <2,5 mm
- Plating:** Au over 50 μ" (1.27 μm) Ni
- Current Rating:** 200 millamp per pin (14 adjacent pins powered)
- Propagation Delay:** 4.79 nsec/meter
- Operating Temp Range:** -25 °C to +105 °C

RECOGNITIONS

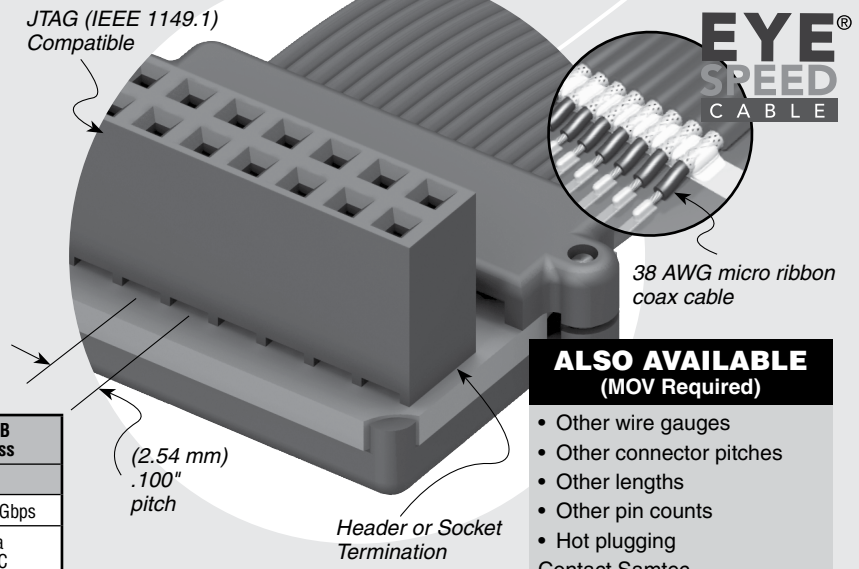
For complete scope of recognitions see www.samtec.com/quality



-TU, -TD & -TE Mates with:
SSW, SSQ, SSM, ESW,
ESQ, BCS

-SU, -SD & -SE Mates with:
TSW, MTSW, TSM,
TSS, ZSS

JTAG (IEEE 1149.1)
Compatible

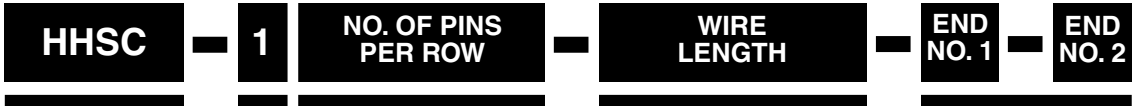


Cable Length	Rated @ 7dB Insertion Loss
	HHSC
10" (254 mm)	2.69 GHz / 5.38 Gbps

Performance and complete test data available at www.samtec.com?HHSC or contact sig@samtec.com

ALSO AVAILABLE (MOV Required)

- Other wire gauges
 - Other connector pitches
 - Other lengths
 - Other pin counts
 - Hot plugging
- Contact Samtec.

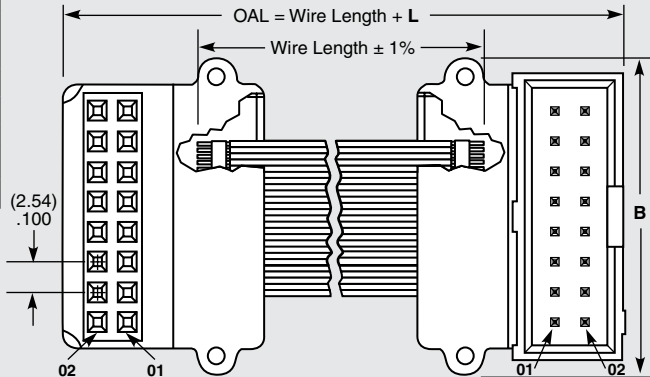


05, 07, 08, 10, 15, 20, 25
(Standard sizes)

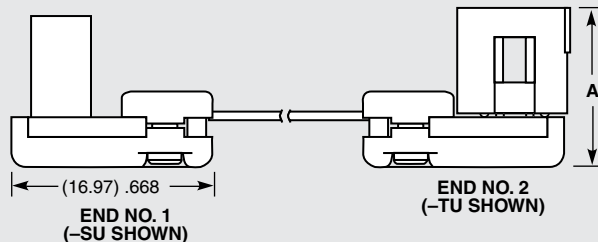
- "XX.XX"
= Wire Length in Inches
(43.7 mm) 01.72" minimum

- TU = Terminal Up
- TD = Terminal Down
- TE = Terminal Edge Mount
- SU = Socket Up
- SD = Socket Down
- SE = Socket Edge Mount

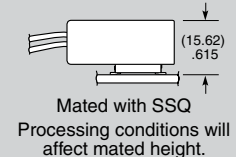
END TO END	L
-TU/-TD to -TU/-TD	(22.00) .87
-TU/-TD to -SU/-SD	(21.74) .86
-SU/-SD to -SU/-SD	(21.49) .85
-TU/-TD to -TE	(26.87) 1.06
-SU/-SD to -TE	(26.62) 1.05
-TU/-TD to -SE	(26.49) 1.04
-SU/-SD to -SE	(26.24) 1.03
-TE to -TE	(31.75) 1.25
-TE to -SE	(31.37) 1.24
-SE to -SE	(30.99) 1.22



END	B	B
-TU/-TD	(13.46) .530	(26.76) 1.053
-SU/-SD	(12.70) .500	
-SE	(6.91) .272	(30.80) 1.213
-TE	(9.27) .365	



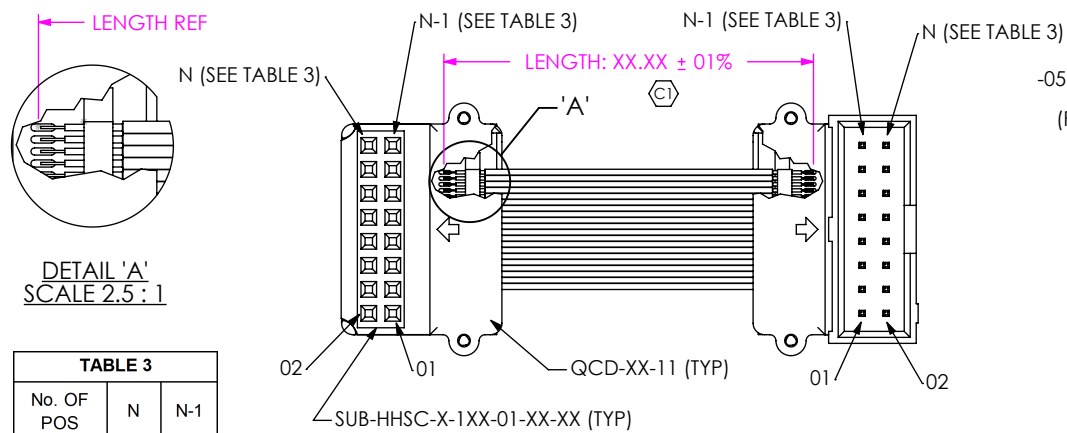
APPLICATIONS



Notes:
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data
This Series is non-standard, non-returnable.

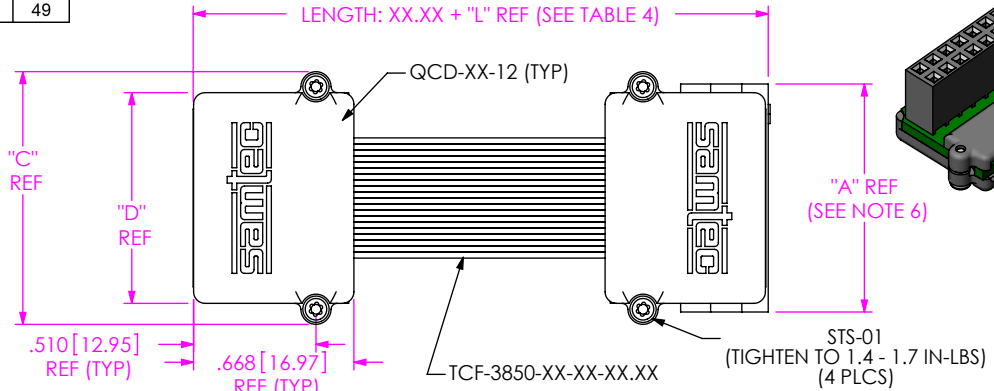
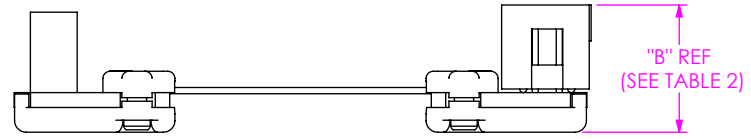
REVISION P

DO NOT SCALE FROM THIS PRINT



DETAIL 'A'
SCALE 2.5: 1

No. OF POS	N	N-1
-05	10	09
-07	14	13
-08	16	15
-10	20	19
-15	30	29
-20	40	39
-25	50	49



END	* "B"
-TX	.530[13.46]
-SX	.500[12.70]

* -DV END OPTIONS ONLY

No. OF POSITIONS	SUB-HHSC-X-1XX-01-XX-XX	TCF-3850-XX-XX-XX-XX	QTY OF TCF	QCD-XX-11	QCD-XX-12-XXX	"A"	"C"	"D"
-05	SUB-HHSC-X-105-01-XX-XX	TCF-3850-20-01-XX-XX	1	QCD-01-11	QCD-01-12	.878 [22.30]	1.053 [26.75]	.878 [22.30]
-07	SUB-HHSC-X-107-01-XX-XX	TCF-3850-20-01-XX-XX	1	QCD-01-11	QCD-01-12	.878 [22.30]	1.053 [26.75]	.878 [22.30]
-08	SUB-HHSC-X-108-01-XX-XX	TCF-3850-20-01-XX-XX	1	QCD-01-11	QCD-01-12	.950 [24.13]	1.053 [26.75]	.878 [22.30]
-10	SUB-HHSC-X-110-01-XX-XX	TCF-3850-20-01-XX-XX	1	QCD-01-11	QCD-01-12-EXT	1.150 [29.21]	1.053 [26.75]	.878 [22.30]
-15	SUB-HHSC-X-115-01-XX-XX	TCF-3850-30-01-XX-XX	1	QCD-15-11	QCD-15-12	1.701 [43.21]	1.876 [47.65]	1.701 [43.21]
-20	SUB-HHSC-X-120-01-XX-XX	TCF-3850-20-01-XX-XX	2	QCD-20-11	QCD-20-12	2.201 [55.91]	2.376 [60.35]	2.201 [55.91]
-25	SUB-HHSC-X-125-01-XX-XX	TCF-3850-25-01-XX-XX	2	QCD-25-11	QCD-25-12	2.701 [68.61]	2.876 [73.05]	2.701 [68.61]

END TO END	"L"
DV (-TX) TO DV (-TX)	.87[22.00]
DV (-TX) TO DV (-SX)	.86[21.74]
DV (-SX) TO DV (-SX)	.85[21.49]
DV (-TX) TO EM (-TE)	1.06[26.87]
DV (-SX) TO EM (-TE)	1.05[26.62]
DV (-TX) TO EM (-SE)	1.04[26.49]
DV (-SX) TO EM (-SE)	1.03[26.24]
EM (-TE) TO EM (-TE)	1.25[31.75]
EM (-TE) TO EM (-SE)	1.24[31.37]
EM (-SE) TO EM (-SE)	1.22[30.99]

HHSC-1XX-XX.XX-XX-XX

No OF POSITIONS
-05, -07, -08, -10, -15, -20, -25
(PER ROW)
(FOR DOUBLE VERTICAL:
SEE FIG. 1 & 2)
(FOR EDGE MOUNT:
SEE FIG. 3, SHEET 3)

LENGTH
-XX.XX (INCHES)
(1.72[43.71] MIN)
(SEE NOTE 2)
(SEE NOTE 9)

- SECOND END
- TU: TERMINAL UP
 - TD: TERMINAL DOWN
 - SU: SOCKET UP
 - SD: SOCKET DOWN (SEE TABLE 1, & SHEET 2)
- FIRST END
- TE: TERMINAL (EDGE MOUNT)
 - SE: SOCKET (EDGE MOUNT) (SEE TABLE 5 & SHEET 3)
- SECOND END
- TU: TERMINAL UP
 - TD: TERMINAL DOWN
 - SU: SOCKET UP
 - SD: SOCKET DOWN (SEE TABLE 1, & SHEET 2)
- FIRST END
- TE: TERMINAL (EDGE MOUNT)
 - SE: SOCKET (EDGE MOUNT) (SEE TABLE 5 & SHEET 3)

NO LEAD THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

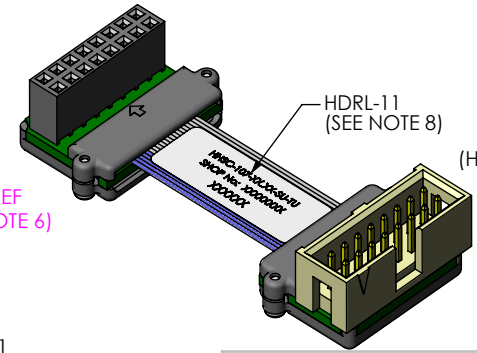


FIG. 1
DOUBLE VERTICAL
(HHSC-108-XX.XX-SU-TU SHOWN)

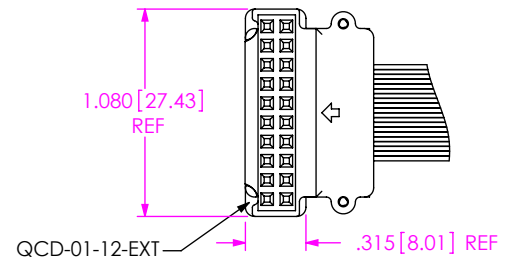


FIG. 2
DOUBLE VERTICAL (-10 POSITION)
(HHSC-10-XX.XX-SU-XX SHOWN)
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)

NOTES:

- Ⓢ REPRESENTS A CRITICAL DIMENSION.
- SUB-TCF LENGTH IS EQUAL TO HHSC LENGTH.
- Ⓢ ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
- Ⓢ ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
- PACKAGE ASSEMBLIES IN STATIC DISSIPATION BAGS.
- FOR -TX END OPTIONS, THIS DIMENSION APPLIES TO THE QCD SHROUD ON POSITIONS -05, -07, -15, -20, & -25, BUT TO HTSS SHROUD ON POSITIONS -08 & -10.
- THIS DIMENSION APPLIES TO -TE END OPTION ONLY.
- HDRL-11 IS TO BE CENTERED ON TCF AS SHOWN; HDRL-11 IS TO CONTAIN:
LINE 1- PART NUMBER "HHSC-1XX-XX.XX-XX-XX"
LINE 2- SHOP ORDER NUMBER "XXXXXX"
LINE 3- DATE CODE "XXXXX"
- CABLE LENGTHS LONGER THAN 40.00 INCHES ARE NOT SUPPORTED BY S.I. TEST DATA.
- ALL POSITIONS ARE TRANSMITTED AS SIGNALS ACROSS COAX CENTER CONDUCTORS.
- REFER TO PREP-SPEC DOCUMENT FOR CABLE PREP DIMENSIONS. ASSEMBLY USES STANDARD PCB PREP.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01 [.3] 2°
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

MATERIAL: DO NOT SCALE DRAWING
INSULATOR:
CONTACT OR TERMINAL:
PLATING:
-S GOLD: 30µ" CONTACT
MAX FLASH ALLOWED: .002
MAX GATE VESTIGE: .002

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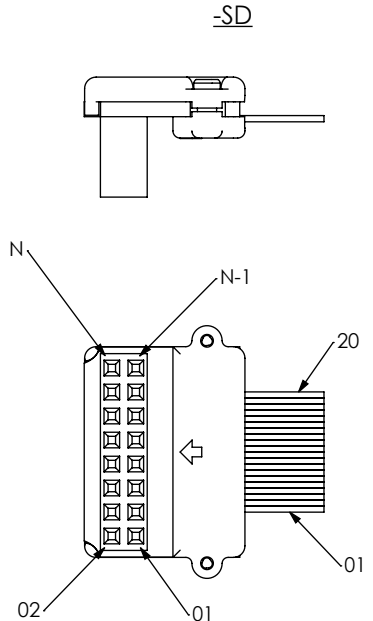
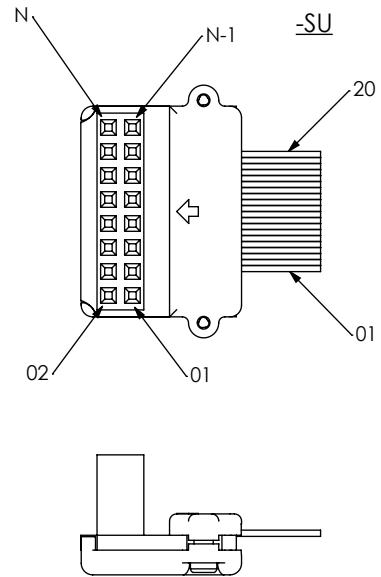
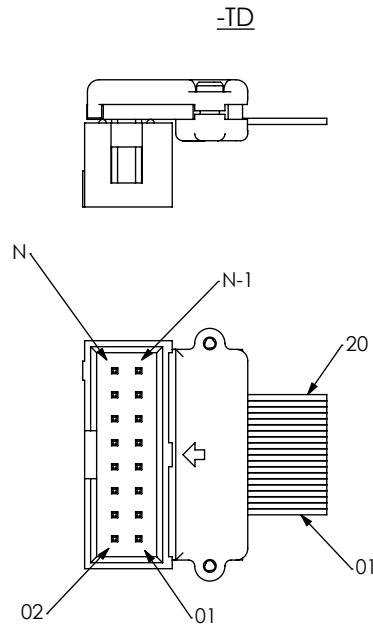
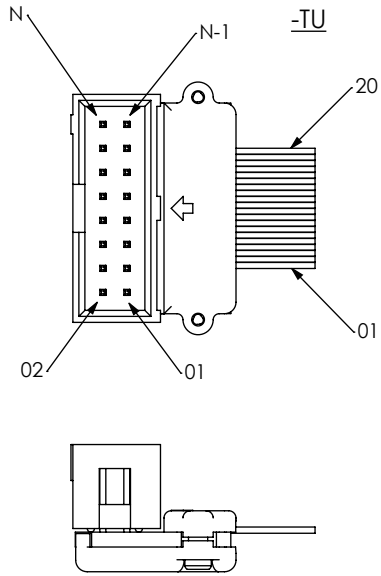


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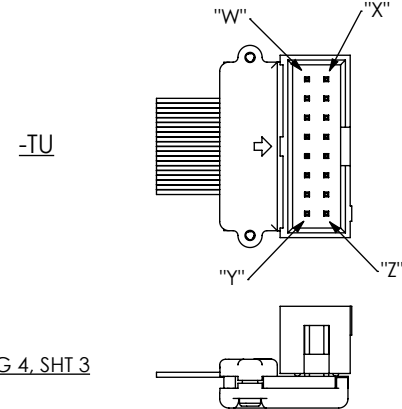
DESCRIPTION:
.100[2.54] COAX CABLE ASSEMBLY

DWG. NO.
HHSC-1XX-XX.XX-XX-XX

BY: BRATCHER 07/18/2003 SHEET 1 OF 4

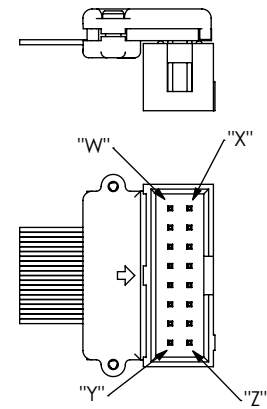


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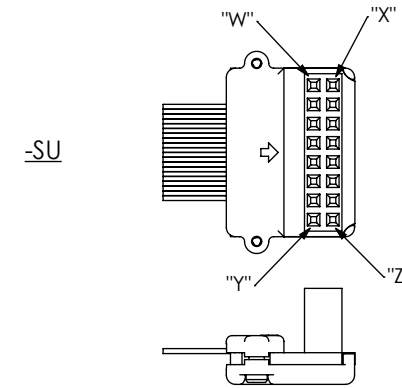
SEE FIG 4, SHT 3

FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	N-1	N	01	02
-TD, -SD	01	02	N-1	N

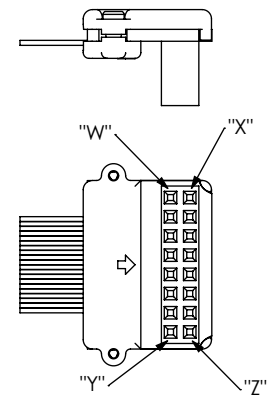


SEE FIG 4, SHT 3

FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	01	02	N-1	N
-TD, -SD	N-1	N	01	02



FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	N-1	N	01	02
-TD, -SD	01	02	N-1	N



FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	01	02	N-1	N
-TD, -SD	N-1	N	01	02

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 e-Mail: info@SAMTEC.com code: 53322

DESCRIPTION: .100[2.54] COAX CABLE ASSEMBLY

DWG. NO. HHSC-1XX-XX.XX-XX-XX

BY: BRATCHER 07/18/2003 SHEET 2 OF 4

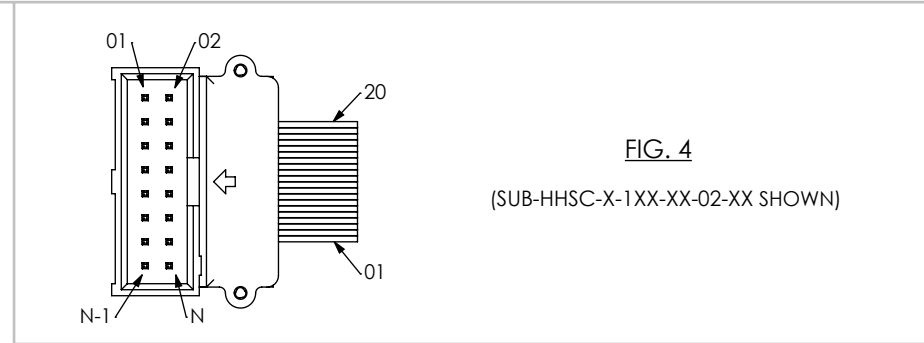
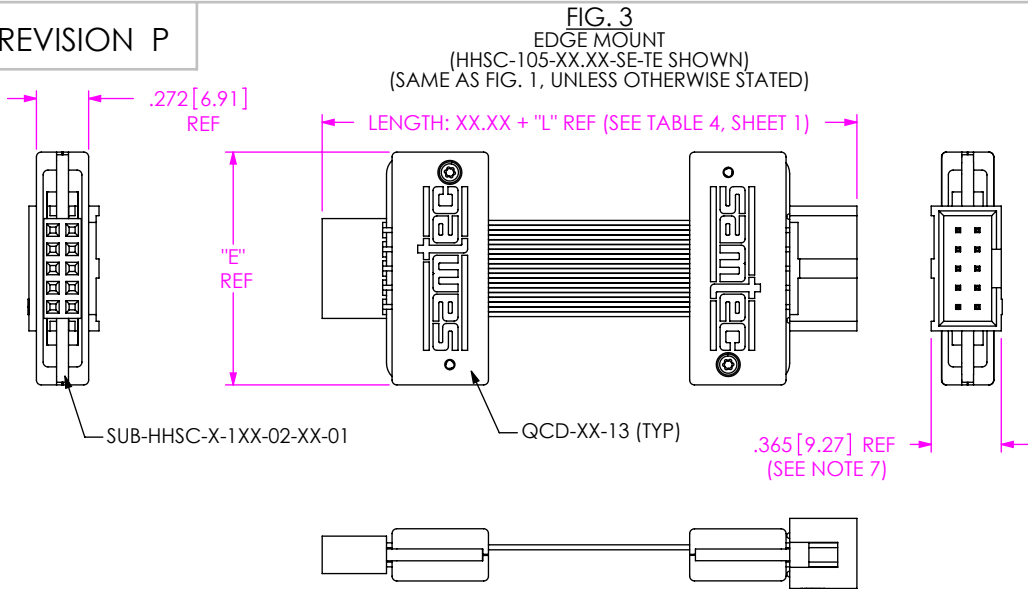
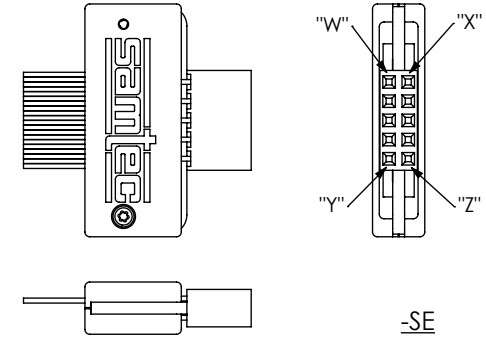
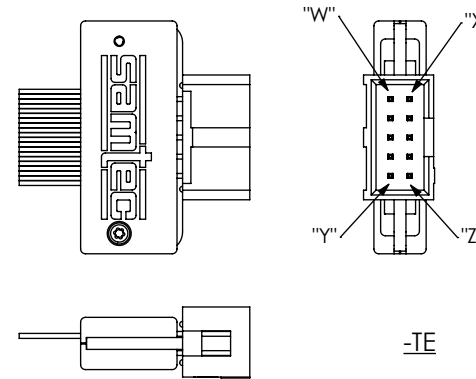
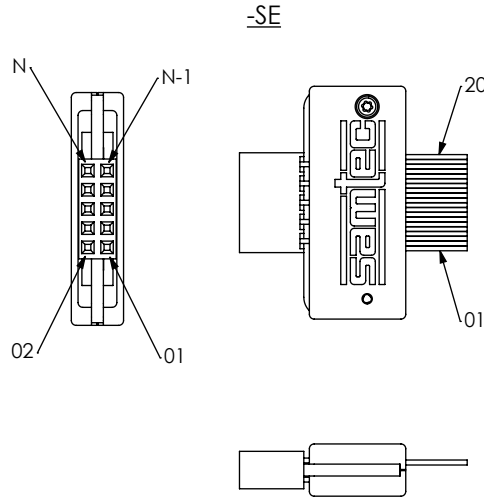
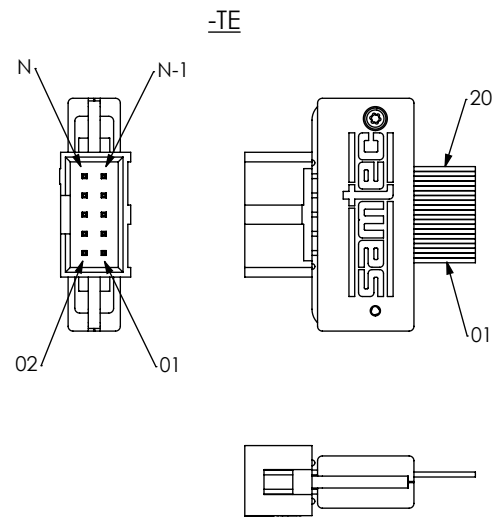


TABLE 5

No. OF POSITIONS	SUB-HHSC-X-1XX-02-XX-01	QCD-XX-13	"E"
-05	SUB-HHSC-X-105-02-XX-01	QCD-01-13	1.213 [30.81]
-07	SUB-HHSC-X-107-02-XX-01	QCD-01-13	1.213 [30.81]
-08	SUB-HHSC-X-108-02-XX-01	QCD-01-13	1.213 [30.81]
-10	SUB-HHSC-X-110-02-XX-01	QCD-01-13	1.213 [30.81]
-15	SUB-HHSC-X-115-02-XX-01	QCD-15-13	1.713 [43.51]
-20	SUB-HHSC-X-120-02-XX-01	QCD-20-13	2.213 [56.21]
-25	SUB-HHSC-X-125-02-XX-01	QCD-25-13	2.713 [68.91]

FIRST END - EDGE MOUNT (SEE TABLE 6, SHEET 4 FOR -05, -07, -08, -10 POSITIONS)(SEE TABLE 7 FOR -15, -20, -25 POSITIONS)

SECOND END - EDGE MOUNT (SEE TABLE 6, SHEET 4 FOR -05, -07, -08, -10 POSITIONS)(SEE TABLE 7 FOR -15, -20, -25 POSITIONS)



FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	N-1	N	01	02
-TD, -SD	01	02	N-1	N

FIRST END	"W"	"X"	"Y"	"Z"
-TU, -SU, -TE, -SE	N-1	N	01	02
-TD, -SD	01	02	N-1	N

F:\DWG\MISC\MKTG\HHSC-1XX-XX-XX-MKT.SLDDRW

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SHEET SCALE: 1:1

DESCRIPTION: .100[2.54] COAX CABLE ASSEMBLY

DWG. NO. HHSC-1XX-XX.XX-XX-XX

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TABLE 6 (FOR -05, -07, -08, & -10 POSITIONS ONLY)

FIRST END OPTION	FIRST END SUB-HHSC-X-1XX-XX-01-XX	SECOND END OPTION (SUB-HHSC-X-1XX-XX-XX-XX)					
		-TU	-TD	-SU	-SD	-TE	-SE
-TU	-T-1XX-01-01-01	-T-1XX-01-02-01	-T-1XX-01-01-01	-S-1XX-01-02-01	-S-1XX-01-01-01	-T-1XX-02-02-01	-S-1XX-02-02-01
-TD	-T-1XX-01-01-01	-T-1XX-01-01-01	-T-1XX-01-02-01	-S-1XX-01-01-01	-S-1XX-01-02-01	-T-1XX-02-01-01	-S-1XX-02-01-01
-SU	-S-1XX-01-01-01	-T-1XX-01-02-01	-T-1XX-01-01-01	-S-1XX-01-02-01	-S-1XX-01-01-01	-T-1XX-02-02-01	-S-1XX-02-02-01
-SD	-S-1XX-01-01-01	-T-1XX-01-01-01	-T-1XX-01-02-01	-S-1XX-01-01-01	-S-1XX-01-02-01	-T-1XX-02-01-01	-S-1XX-02-01-01
-TE	-T-1XX-02-01-01	-T-1XX-01-02-01	-T-1XX-01-01-01	-S-1XX-01-02-01	-S-1XX-01-01-01	-T-1XX-02-02-01	-S-1XX-02-02-01
-SE	-S-1XX-02-01-01	-T-1XX-01-02-01	-T-1XX-01-01-01	-S-1XX-01-02-01	-S-1XX-01-01-01	-T-1XX-02-02-01	-S-1XX-02-02-01

TABLE 7 (FOR -15, -20, & -25 POSITIONS ONLY)

FIRST END OPTION	FIRST END SUB-HHSC-X-1XX-XX-01-XX	SECOND END OPTION (SUB-HHSC-X-1XX-XX-XX-XX)					
		-TU	-TD	-SU	-SD	-TE	-SE
-TU	-T-1XX-01-01-01	-T-1XX-01-01-02	-T-1XX-01-01-01	-S-1XX-01-01-02	-S-1XX-01-01-01	-T-1XX-02-01-02	-S-1XX-02-01-02
-TD	-T-1XX-01-01-01	-T-1XX-01-01-01	-T-1XX-01-01-02	-S-1XX-01-01-01	-S-1XX-01-01-02	-T-1XX-02-01-01	-S-1XX-02-01-01
-SU	-S-1XX-01-01-01	-T-1XX-01-01-02	-T-1XX-01-01-01	-S-1XX-01-01-02	-S-1XX-01-01-01	-T-1XX-02-01-02	-S-1XX-02-01-02
-SD	-S-1XX-01-01-01	-T-1XX-01-01-01	-T-1XX-01-01-02	-S-1XX-01-01-01	-S-1XX-01-01-02	-T-1XX-02-01-01	-S-1XX-02-01-01
-TE	-T-1XX-02-01-01	-T-1XX-01-01-02	-T-1XX-01-01-01	-S-1XX-01-01-02	-S-1XX-01-01-01	-T-1XX-02-01-02	-S-1XX-02-01-02
-SE	-S-1XX-02-01-01	-T-1XX-01-01-01	-T-1XX-01-01-01	-S-1XX-01-01-02	-S-1XX-01-01-01	-T-1XX-02-01-02	-S-1XX-02-01-02



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 e-Mail: info@SAMTEC.com code: 55322

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 DWG. NO. HHSC-1XX-XX.XX-XX-XX
 BY: BRATCHER 07/18/2003 SHEET 4 OF 4