

revision history				
rev	ecn no	description	dr	date
10	CD----	UPDATE DRAWING TO ADD KEEP OUT ZONE	CZ	2021/06/30
11	CD----	UPDATE TABLE 3	CZ	2021/09/03
12	CD----	UPDATE PIN DEFINE	CZ	2023/03/23

PART NUMBER SYSTEM

C E X X X X X 0 0 1 1 0 1 1 X

SIGNAL SPEED
1: PCIe Gen4 16Gbps or BELOW
2: PCIe Gen5 32Gbps
(ADD ECB FOR HIGH SPEED
DIFF PAIR SECTION)

POWER PIN COUNT
0: WITHOUT POWER PIN
2: 2 POWER PIN
4: 4 POWER PIN
6: 6 POWER PIN (MAX)

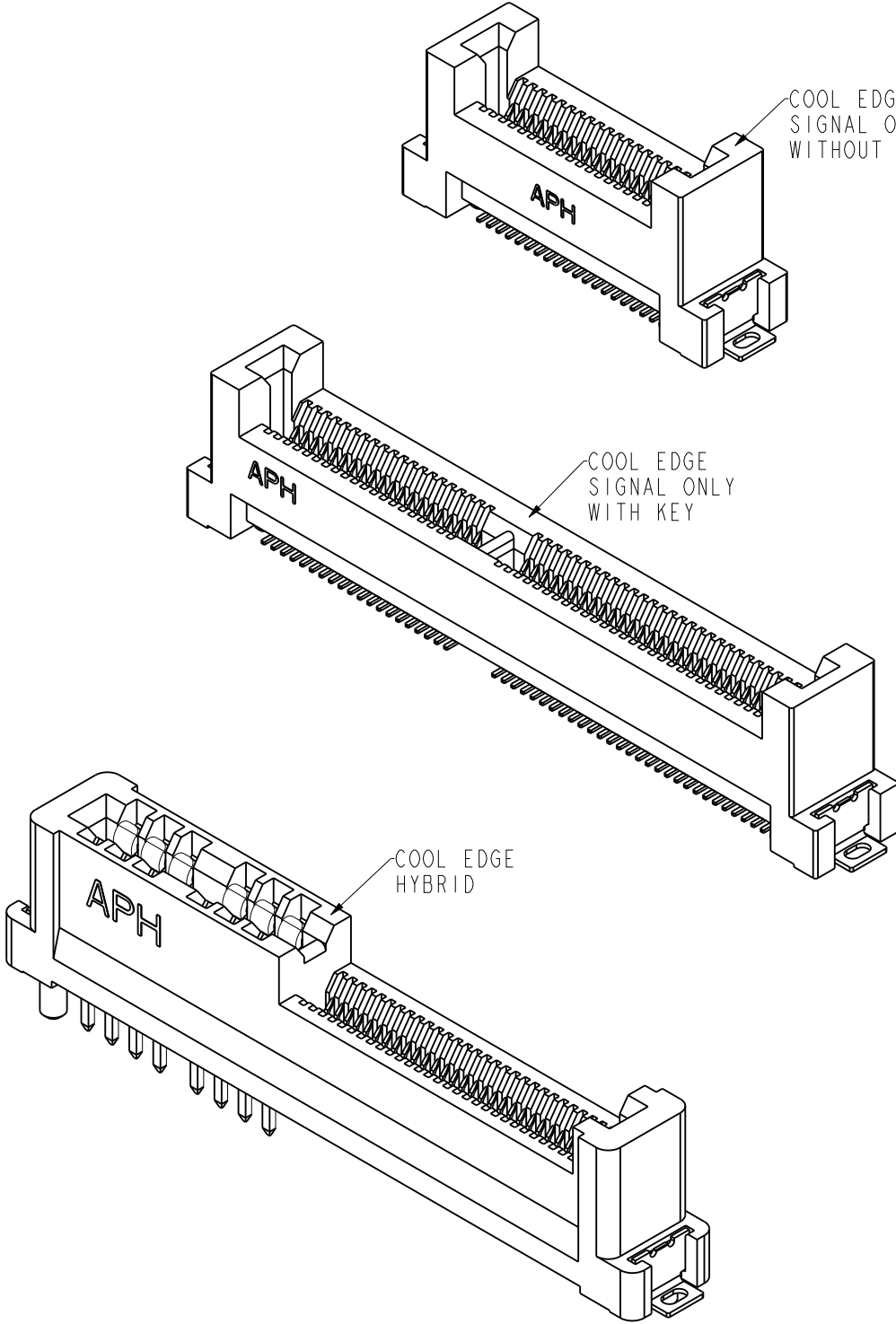
PLATING SPEC
1: Au 0.76UM
2: Au 0.38UM
3: Gold Flash

AIC THICKNESS
0: 1.60MM

SIGNAL PIN COUNT
000: 0 PIN; 080: 80 PIN
020: 20 PIN; 100: 100 PIN
026: 26 PIN; 120: 120 PIN
040: 40 PIN; 140: 140 PIN
050: 50 PIN; 160: 160 PIN
060: 60 PIN; 180: 180 PIN
200: 200 PIN

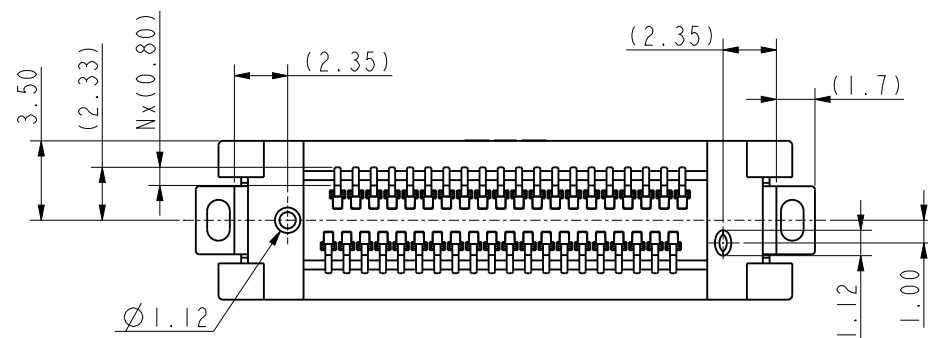
NOTES:

- 1.MATERIAL:
HOUSING:HIGH TEMPERATURE THERMOPLASTIC BLACK UL94V-0 HF
CONTACT:COPPER ALLOY
BOARD LOCK:SPCC
- 2.PLATING:
CONTACT:MATING AREA:SEE PN SYTTEM OVER 1.27~2.54UM NICKEL UNDERPLATED
SOLDER AREA:2.54MIN TIN OVER 1.27~2.54UM NICKEL UNDERPLATED
BOARD LOCK:2.54MIN TIN OVER 1.27~2.54UM NICKEL UNDERPLATED
- 3.ELECTRICAL PERFORMANCE:
RATED CURRENT FOR POWER PIN:REFER PRODUCT APPLICATION SPEC
RATED CURRENT FOR SIGNAL PIN:REFER PRODUCT APPLIATION SPEC
- 4.MATERIAL IS FULFILLED AMPHENOL SPCE#SSN002
- 5.MORE DETAIL OF GOLD FINGER AND KEEP OUT DESIGN, PLEASE REFER COOL EDGE SERIES ROUNTING GUIDELINE.
- 6.ECB IS A CONDUCTIVE BAR TO LINK ALL HIGH SPEED DIFF PAIR GROUND TOGETHER
- 7.ORDERING PART NUMBER:REFER TO THE PART NUMBER SYSTEM



spec ref				dr		Cat. zeng		Jun. 30, 2021		Amphenol				mm		scale		size											
tolerance std				TOLERANCES UNLESS OTHERWISE SPECIFIED				eng						Cat. zeng		Jun. 30, 2021		1:1				A3							
								rvwr										ecn no				CD----							
								appr										amphenol-icc.com				rel level				RELEASED			
surface ✓				linear				0.X ±0.25				projection				title COOL EDGE SERIES CONNECTOR HYBRID, SIGNAL ONLY, 0.80mmPT, VT, 1.60				drag no		C CEXXXXXX0011011X						rev	

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SIGNAL SPEED	DIM R (GOLD FINGER LENGTH)
PCIe Gen4 16Gbps or BELOW	2.50
PCIe Gen5 32Gbps	2.00



PIN COUNT	DIMENSION							
N(SIGNAL)	A	B	C	D	E	F	G	H
20	17.30	13.30	9.80	7.20	3.40	11.20	9.65	3.40
26	19.70	15.70	12.20	9.60	4.60	13.60	12.05	4.60
40	25.30	21.30	17.80	15.20	7.40	19.20	17.65	7.40
50	29.30	25.30	21.80	19.20	9.40	23.20	21.65	9.40

spec ref				dr	Cat. zeng	Jun. 30, 2021	Amphenol		mm	scale	size	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Cat. zeng	Jun. 30, 2021			←→	1:1	A3	
				rivr					ecn no		CD----	
				appr					amphenol-icc.com		rel level	RELEASED
surface	linear	0.X	±0.25	projection		title	COOL EDGE SERIES CONNECTOR		dwg no	C CEXXXXX001101IX		rev
		HYBRID, SIGNAL ONLY, 0.80mmPT, VT, 1.60										
		0.XX	±0.20				cat. no.		12			
	0.XXX	±0.15	product family				COOL EDGE				sheet 2 of 7	
angular	0°	±5°										

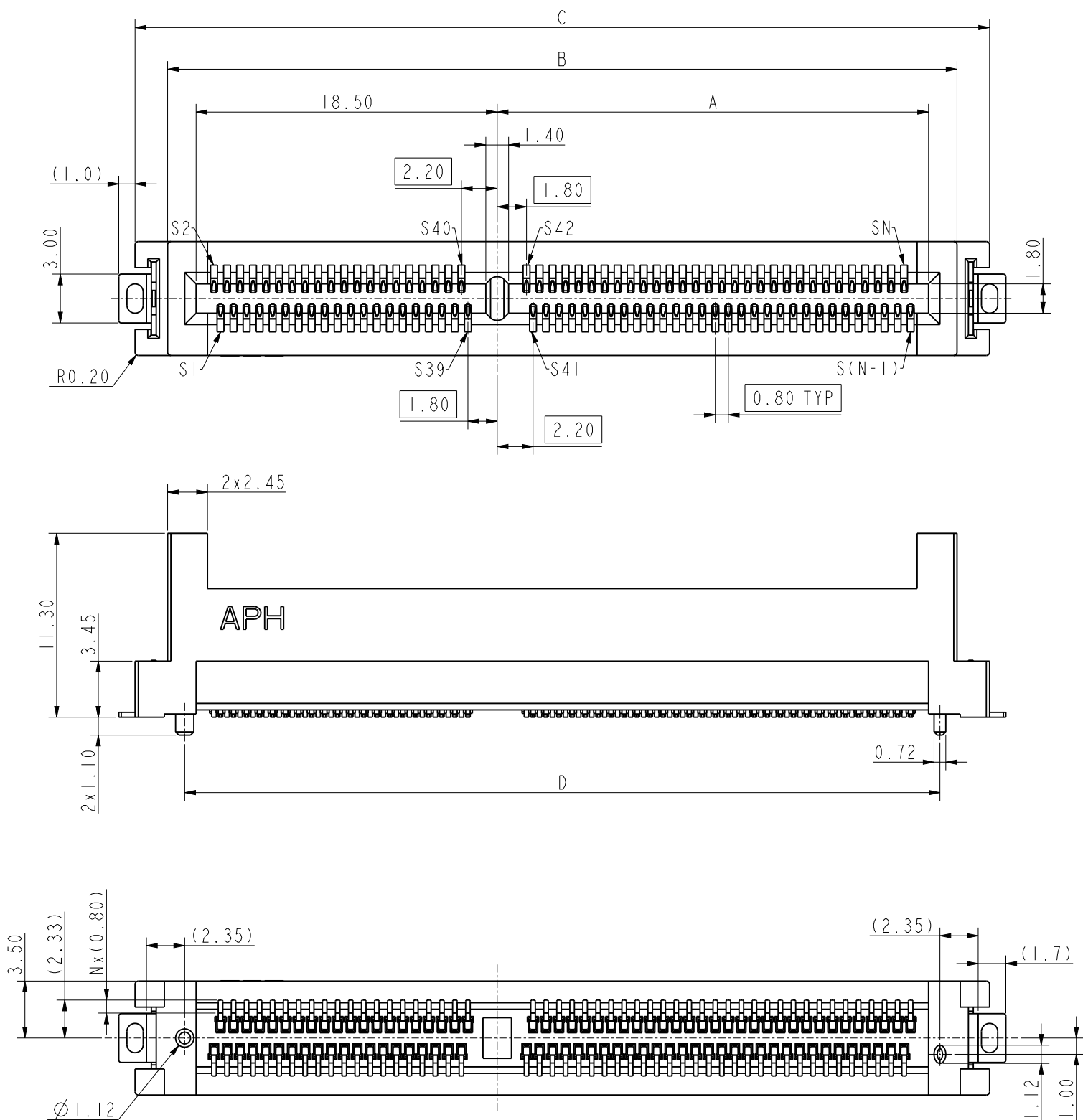
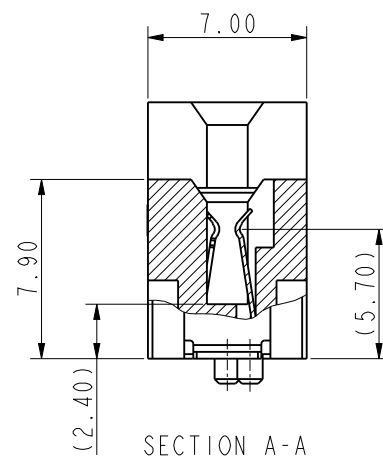


TABLE 3
(REFER PAGE 3&4)

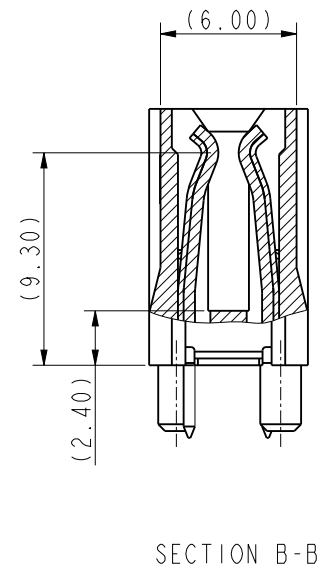
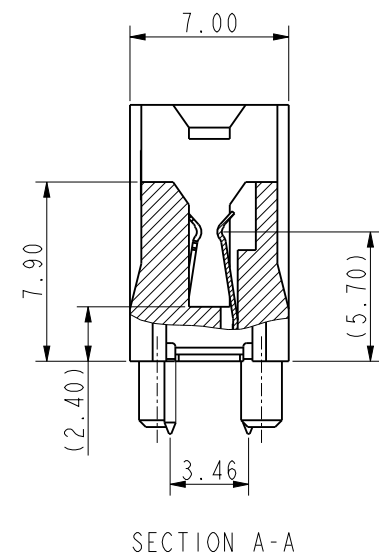
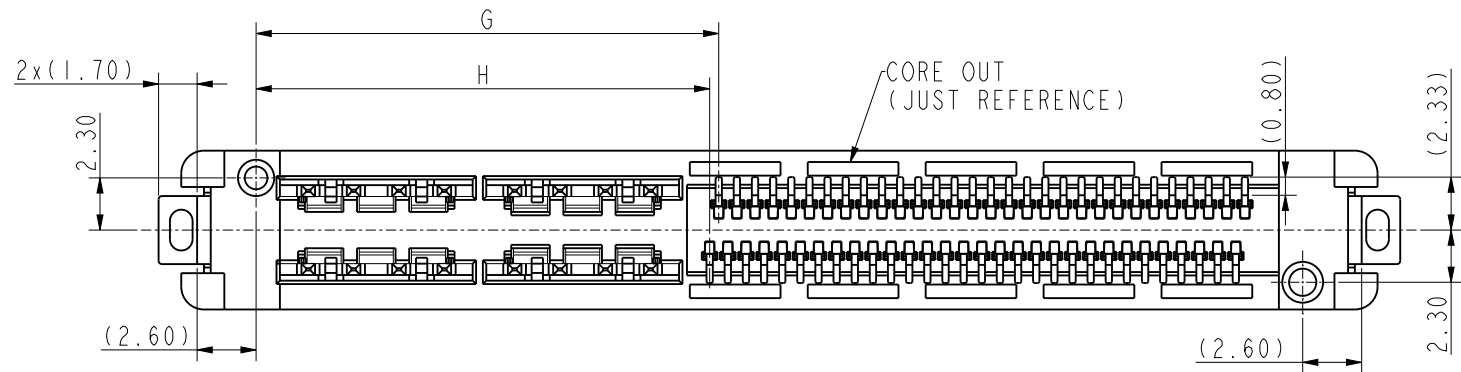
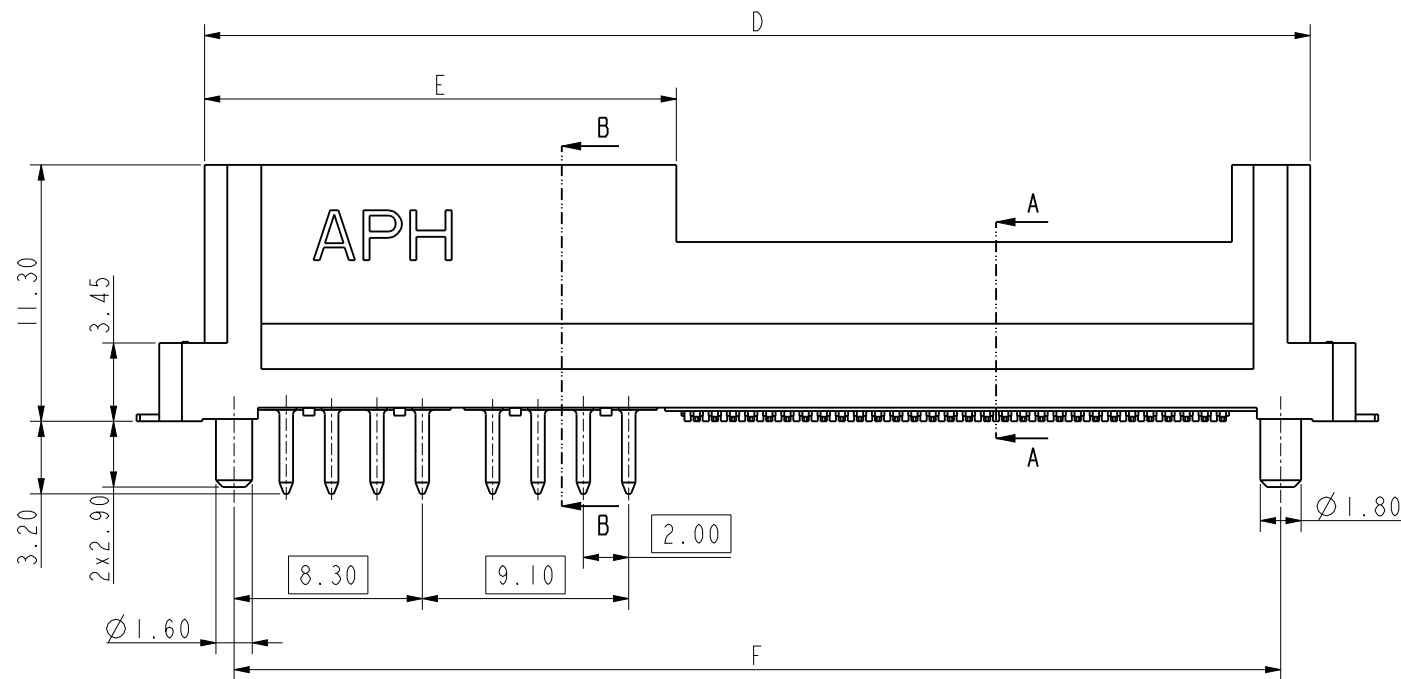
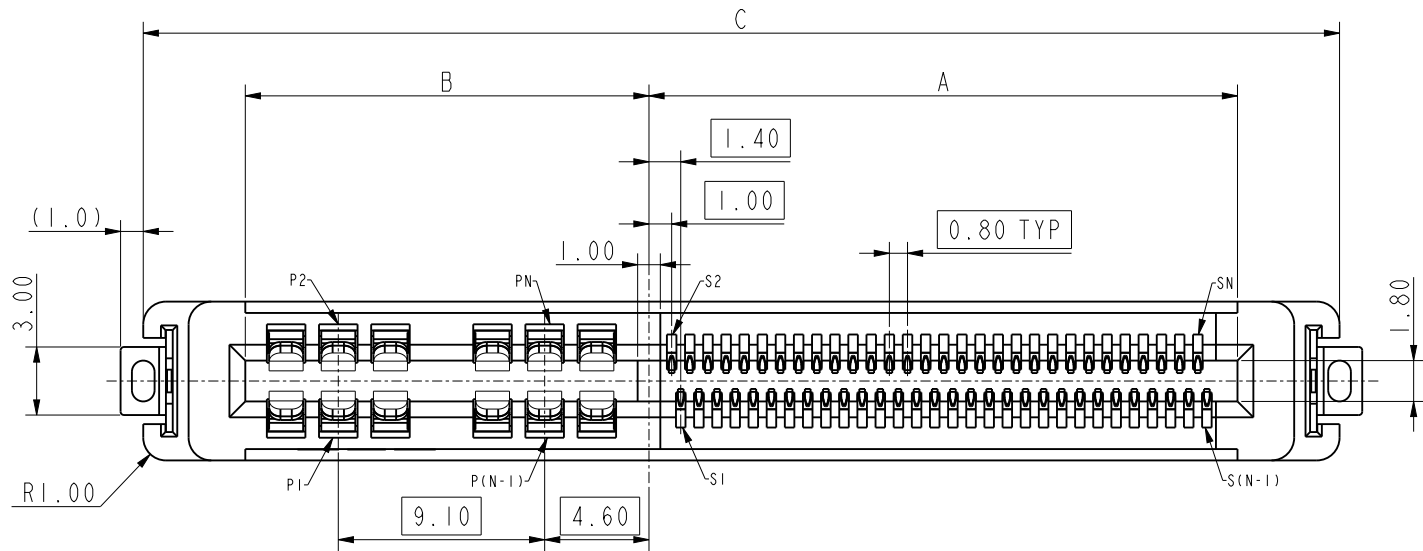
PIN COUNT N(SIGNAL)	DIMENSION				
	A	B	C	D	E
60	10.50	32.50	36.50	30.40	10.35
80	18.50	40.50	44.50	38.40	18.35
100	26.50	48.50	52.50	46.40	26.35
120	34.50	56.50	60.50	54.40	34.35
140	42.50	64.50	68.50	62.40	42.35
160	50.50	72.50	76.50	70.40	50.35
180	58.50	80.50	84.50	78.40	58.35
200	66.50	88.50	92.50	86.40	66.35



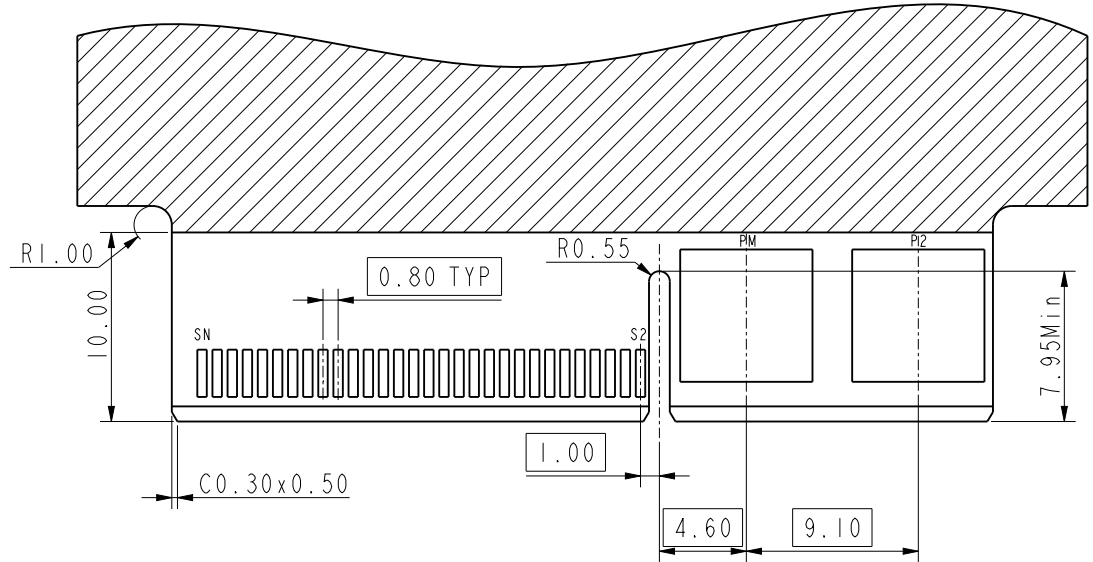
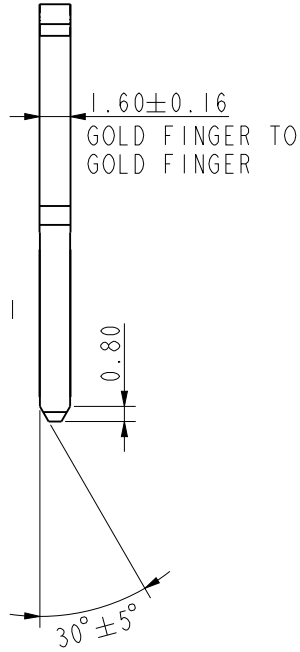
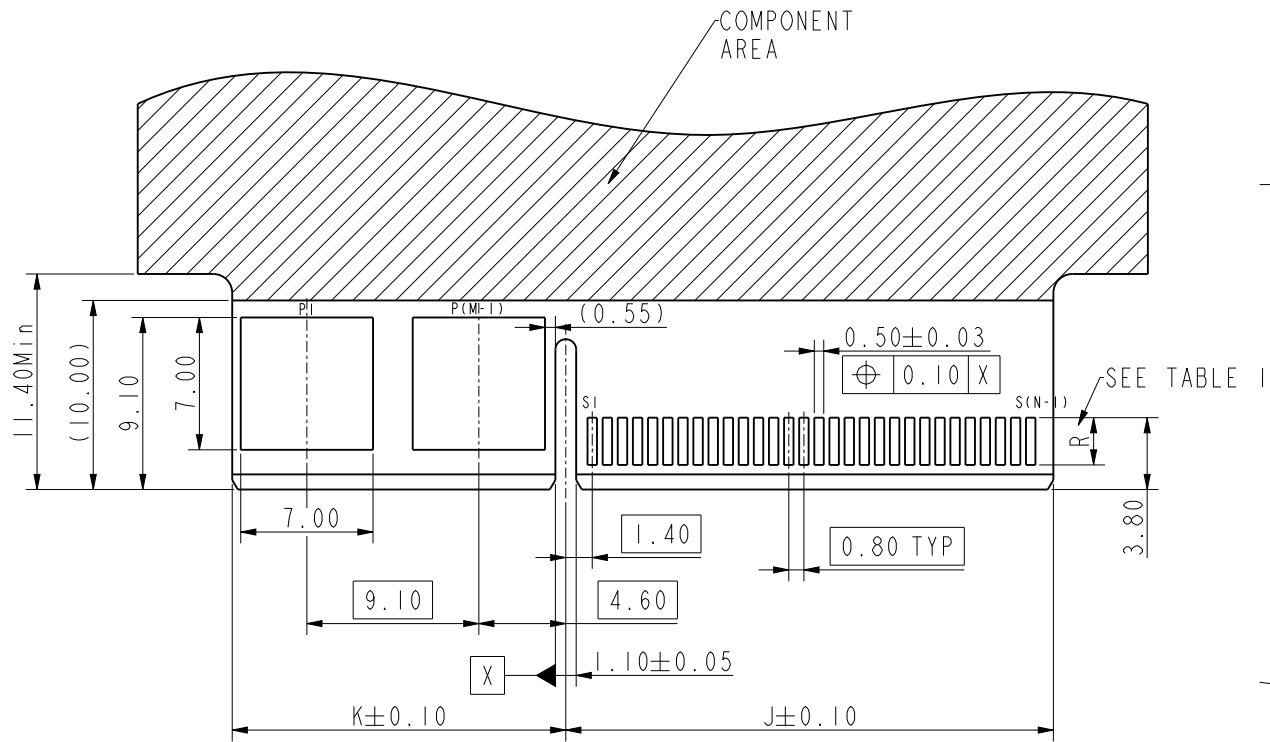
spec ref				dr		Cat. zeng		Jun. 30, 2021		Amphenol			mm		scale		size		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Cat. zeng		Jun. 30, 2021					ecn no		CD----				
				rvwr															
				appr															
										amphenol-icc.com			rel level		RELEASED				
surface		linear		0.X		±0.25		projection		title		COOL EDGE SERIES CONNECTOR		dwg no		C CEXXXXX001101IX		rev	
				0.XX		±0.20													
				0.XXX		±0.15													
		angular		0°		±5°				product family		COOL EDGE		sheet 3 of 7					



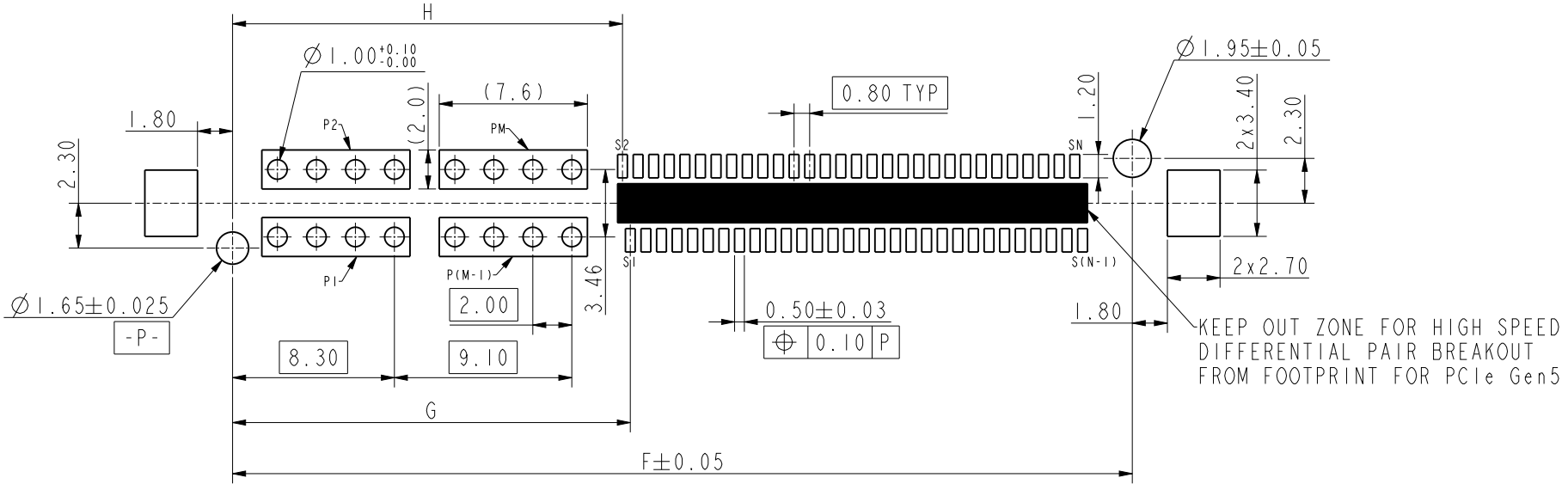
spec ref				dr	Cat. zeng	Jun. 30, 2021	Amphenol		mm	scale	size	
TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Cat. zeng	Jun. 30, 2021			←→	1:1	A3	
				rvwr					ecn no			CD----
				appr					amphenol-icc.com			rel level
surface	linear	0.X	±0.25	projection	COOL EDGE SERIES CONNECTOR				dwg no	C CEXXXXX001101IX		rev
		0.XX	±0.20						HYBRID, SIGNAL ONLY, 0.80mmPT, VT, 1.60			
		0.XXX	±0.15									
	angular	0°	±5°		product family				COOL EDGE		sheet 4 of 7	



spec ref				dr		Cat. zeng		Jun. 30, 2021		Amphenol				mm		scale		size					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Cat. zeng		Jun. 30, 2021						ecn no		CD----							
				rvwr																			
				appr						amphenol-icc.com				rel level				RELEASED					
surface		linear		0.X		±0.25		projection		title		COOL EDGE SERIES CONNECTOR				diag no		C CEXXXXX001101IX				rev	
				0.XX		±0.20																	
				0.XXX		±0.15																	
				angular		0°		±5°				product family		COOL EDGE				sheet 5 of 7					



RECOMMEND MATING CARD, THICKNESS=1.60 $\pm$ 0.16mm
GENERAL TOLERANCE $\pm$ 0.05mm



RECOMMEND SOLDER PCB LAYOUT
GENERAL TOLERANCE $\pm$ 0.05mm

spec ref				dr	Cat. zeng	Jun. 30, 2021	Amphenol		scale	size
tolerance std				eng	Cat. zeng	Jun. 30, 2021			1:1	A3
TOLERANCES UNLESS OTHERWISE SPECIFIED				rvwr					ecn no	CD----
				appr					rel level	RELEASED
surface				projection		amphenol-icc.com		rel level		RELEASED
linear				HYBRID, SIGNAL ONLY, 0.80mmPT, VT, 1.60		COOL EDGE SERIES CONNECTOR		C CEXXXXXX001101IX		rev
angular				product family		COOL EDGE		sheet 6 of 7		12

TABLE 4
(REFER PAGE 5&6)

PIN COUNT		DIMENSION									
M (POWER)	N (SIGNAL)	A	B	C	D	E	F	G	H	J	K
2	18	9.15	8.70	26.85	22.85	11.70	20.25	11.30	10.90	9.00	8.55
	20	9.95	8.70	27.65	23.65	11.70	21.05	11.30	10.90	9.80	8.55
	40	17.95	8.70	35.65	31.65	11.70	29.05	11.30	10.90	17.80	8.55
	60	25.95	8.70	43.65	39.65	11.70	37.05	11.30	10.90	25.80	8.55
	80	33.95	8.70	51.65	47.65	11.70	45.05	11.30	10.90	33.80	8.55
	100	41.95	8.70	59.65	55.65	11.70	53.05	11.30	10.90	41.80	8.55
	120	49.95	8.70	67.65	63.65	11.70	61.05	11.30	10.90	49.80	8.55
	140	57.95	8.70	75.65	71.65	11.70	69.05	11.30	10.90	57.80	8.55
	160	65.95	8.70	83.65	79.65	11.70	77.05	11.30	10.90	65.80	8.55
	180	73.95	8.70	91.65	87.65	11.70	85.05	11.30	10.90	73.80	8.55
	200	81.95	8.70	99.65	95.65	11.70	93.05	11.30	10.90	81.80	8.55

PIN COUNT		DIMENSION									
M (POWER)	N (SIGNAL)	A	B	C	D	E	F	G	H	J	K
4	20	9.95	17.80	36.75	32.75	20.80	30.15	20.40	20.00	9.80	17.65
	40	17.95	17.80	44.75	40.75	20.80	38.15	20.40	20.00	17.80	17.65
	60	25.95	17.80	52.75	48.75	20.80	46.15	20.40	20.00	25.80	17.65
	80	33.95	17.80	60.75	56.75	20.80	54.15	20.40	20.00	33.80	17.65
	100	41.95	17.80	68.75	64.75	20.80	62.15	20.40	20.00	41.80	17.65
	120	49.95	17.80	76.75	72.75	20.80	70.15	20.40	20.00	49.80	17.65
	140	57.95	17.80	84.75	80.75	20.80	78.15	20.40	20.00	57.80	17.65
	160	65.95	17.80	92.75	88.75	20.80	86.15	20.40	20.00	65.80	17.65
	180	73.95	17.80	100.75	96.75	20.80	94.15	20.40	20.00	73.80	17.65
	200	81.95	17.80	108.75	104.75	20.80	102.15	20.40	20.00	81.80	17.65

PIN COUNT		DIMENSION									
M (POWER)	N (SIGNAL)	A	B	C	D	E	F	G	H	J	K
6	20	9.95	26.90	45.85	41.85	29.90	39.25	29.50	29.10	9.80	26.75
	40	17.95	26.90	53.85	49.85	29.90	47.25	29.50	29.10	17.80	26.75
	60	25.95	26.90	61.85	57.85	29.90	55.25	29.50	29.10	25.80	26.75
	80	33.95	26.90	69.85	65.85	29.90	63.25	29.50	29.10	33.80	26.75
	100	41.95	26.90	77.85	73.85	29.90	71.25	29.50	29.10	41.80	26.75
	120	49.95	26.90	85.85	81.85	29.90	79.25	29.50	29.10	49.80	26.75
	140	57.95	26.90	93.85	89.85	29.90	87.25	29.50	29.10	57.80	26.75
	160	65.95	26.90	101.85	97.85	29.90	95.25	29.50	29.10	65.80	26.75
	170	69.95	26.90	105.85	101.85	29.90	99.25	29.50	29.10	69.80	26.75

spec ref				dr	Cat. zeng	Jun. 30, 2021	Amphenol		mm	scale	size		
tolerance std				eng	Cat. zeng	Jun. 30, 2021				1:1	A3		
				rvwr					ecn no	CD----			
surface				appr			amphenol-icc.com			rel level	RELEASED		
				projection		COOL EDGE SERIES CONNECTOR			dwg no	C CEXXXXXX001101IX			
									cat. no.				
									12				
						HYBRID, SIGNAL ONLY, 0.80mmPT, VT, 1.60							
						product family			COOL EDGE				
									sheet 7 of 7				