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# CUSTOMER DRAWING

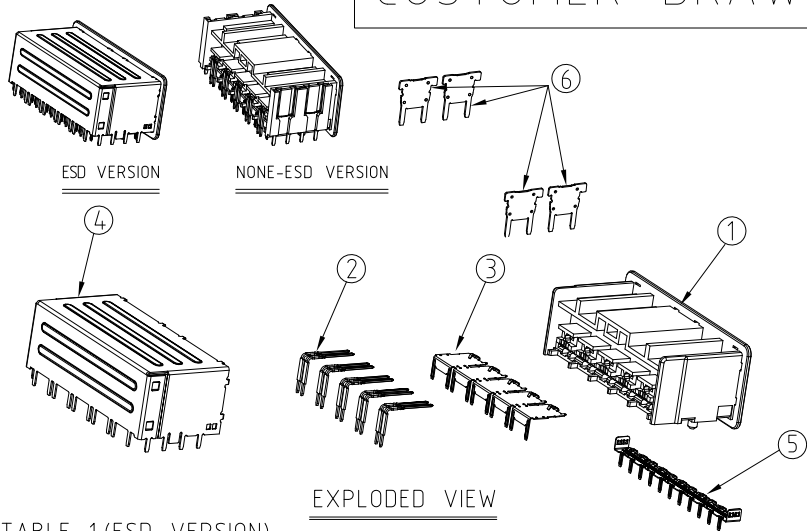


TABLE 1:(ESD VERSION)

ITEM	PART NAME	MATERIAL
①	HOUSING	PA-9T
②	CONTACT	C2680
③	INNER SHELL	C5210
④	OUTER SHELL	C2680
⑤	BOTTOM SHELL	C5210

TABLE 2:(NONE-ESD VERSION)

ITEM	PART NAME	MATERIAL
①	HOUSING	PA-9T
②	CONTACT	C2680
③	INNER SHELL	C5210
⑥	SOLDER TAB	C2680

## 5. ORDER P/N SYSTEM

产品料号编码系统 :NTBM1XR XU011X0X

NO OF ROWS

- 1: SINGLE ROW
- 2: DOUBLE ROW

NO. OF PORT PER ROW

- 1: SINGLE PORT
- 2: 2 PORTS
- 3: 3 PORTS

SHIELDING OPTION

PACKING STYLE

- T-TRAY
- R-TAPE AND REEL

Code Option:

- 1=HOUSING CODE A+CONTACT CARRIER CODE A
- 2=HOUSING CODE B+CONTACT CARRIER CODE B
- 3=HOUSING CODE C+CONTACT CARRIER CODE C
- .....
- 7=HOUSING CODE C+CARRIER CODE A

VERSION	ESD OPTION ESD 选项	INNER SHELL (内部屏蔽壳)	OUTER SHELL (外部屏蔽壳)	BOTTOM SHELL (底部屏蔽壳)	SOLDER TAB (定位焊片)
R0	NONE-ESD	WITHOUT	WITHOUT	WITHOUT	WITH
R1		WITH	WITHOUT	WITHOUT	WITH
R4	ESD	WITH	WITH	WITH	WITHOUT

## NOTES/ 注释:

### 1. MATERIAL/ 材料:

1.1 HOUSING: PA-9T,GF45%,UL94V-0.

胶壳: PA-9T, 玻纤含量45%UL94V-0防火等级.

1.2 CONTACTS/ 端子: C2680/ 黄铜.

PLATING: PLATING 1-2.50um MATTE TIN OVERALL.

电镀规格: 镀全雾锡, 厚度为: 1-2.50微米.

0.76~2.00um MIN NICKEL UNDER PLATED OVERALL.

整体底层镀材为镍层, 厚度为:0.76-2.00微米.

1.3 INNER SHELL: C5210,1~2.50um MATTE TIN PLATED OVERALL,0.76~2.00um NI UNDERPLATED.

内部屏蔽壳: C5210, 镀全雾锡: 1~2.50um, 镍底: 0.76~2.00um.

1.4 OUTER SHELL:C2680R, PLATING SOLDER NI:0.76~2.00um OVERALL,

外部屏蔽壳: C2680R, 镀全可焊镍: 0.76~2.00微米.

1.5 BOTTOM SHELL: C5210,1~2.50um MATTE TIN PLATED OVERALL,0.76~2.00um NI UNDERPLATED.

底部屏蔽壳: C5210, 镀全雾锡: 1~2.50um, 镍底: 0.76~2.00um

1.6 SOLDER TAB/ 定位焊片: C2680/ 黄铜.

PLATING:1-2.5um MATTE TIN OVERALL. 0.76~2.00um NICKEL UNDER PLATED

### 2. GENERAL SPECIFICATION/ 通用特性:

2.1 CURRENT CONTACT CARRYING CAPACITY MAXIMAL: 3A.

最大可承载电流: 3A

2.2 CONTACT RESISTANCE: 15mΩ MAX.WITH CONDUCTOR CROSS SECTION AREA:0.13MM<sup>2</sup>

接触电阻: 15毫欧最大. 导线截面积0.13平方毫米.

2.3 INSULATOR RESISTANCE: 100MΩ MIN.AT Vdc=500V.T=60S

绝缘电阻: 100兆欧最小, 施加500V直流电流1分钟

2.4 DIELECTRIC WITHSTANDING VOLTAGE: 500 VAC

耐电压: 500伏交流

2.5 OPERATION TEMPERATURE: -40°C~+105°C

操作温度: 零下40摄氏度至105摄氏度

3. DIMENSIONING SHALL BE INTERPRETED PER ASME Y14.5M 1994.

尺寸标注基于ASME Y14.5M 1994标准规范

4. COMPLIANCE WITH IEEE 100BASE-T1 AND 1000BASE-T1.

符合IEEE 100BASE-T1 AND 1000BASE-T1标准.

SYM	ECN	DESCRIPTION	DATE	APPROVED
1	N/A	THE FIRST RELEASE	07/03'18	IP
2	N/A	UPDATED THE DRAWING BASED ON NEW DESIGN	07/15'18	IP
3	N/A	ADD 1X1,1X2,1X3,1X4,1X6,1X7 PORTS TO DRAWING	08/30'18	IP
4	N/A	UPDATE THE CODING.	09/17'18	IP
5	N/A	ADD THE HEIGHT DIMENSION	09/17'18	IP
6	N/A	MODIFY SOME DIMENSION AND ORDER P/N SYSTEM	02/20'19	IP
7	N/A	ADD PART NUMBER OPTION	07/17'19	IP
8~10	N/A	UPDATED ESD NONE-ESD OPTION DESCRIPTION & REMOVED R5 VERSION	11/18'19	IP

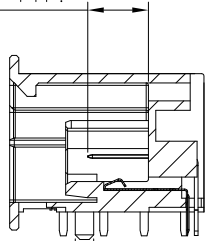


UNLESS OTHERWISE SPECIFIED TOLERANCES		APPROVAL		DATE	Amphenol Amphenol East Asia Limited
U.S.	METRIC	DRAWN	DNHS	07/17'19	
.X .XX .XXX	+/- +/- +/-	0.35 0.25 0.10	CHECKED	DAM	
FRACTIONS ANGLES +/-	+/- 3°		CHECKED		
FOR MATERIALS AND FINISHES SEE NOTES		DRAWING FILE :		TITLE ETHERNET CONNECTOR, 1X1-1X7 PORTS, INDIRECT, R/A,ESD/NONE-ESD,SOLDER DIP.	
REMOVE SHARP EDGES		ANGLE OF PROJECTION		SIZE DRAWING NO. A3 NTBM1XR XU011X0X	
DIMENSIONS		U.S. INCHES (METRIC) (MM)		REV. 10	
				SCALE NONE SHEET 1 OF 5	

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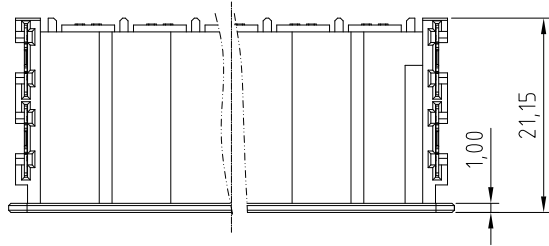
# CUSTOMER DRAWING

6,60±0,25 TYP.

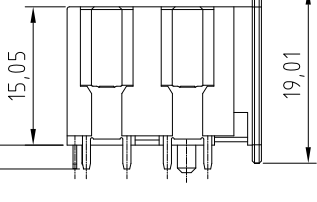


2X $\phi$ 2,00<sup>-0,1</sup>

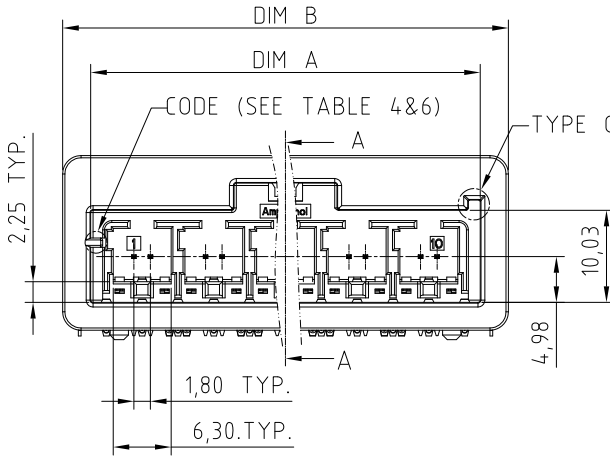
## SECTION A-A



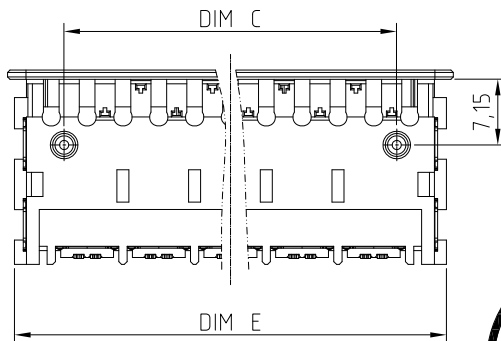
2,60±0,3 TYP.



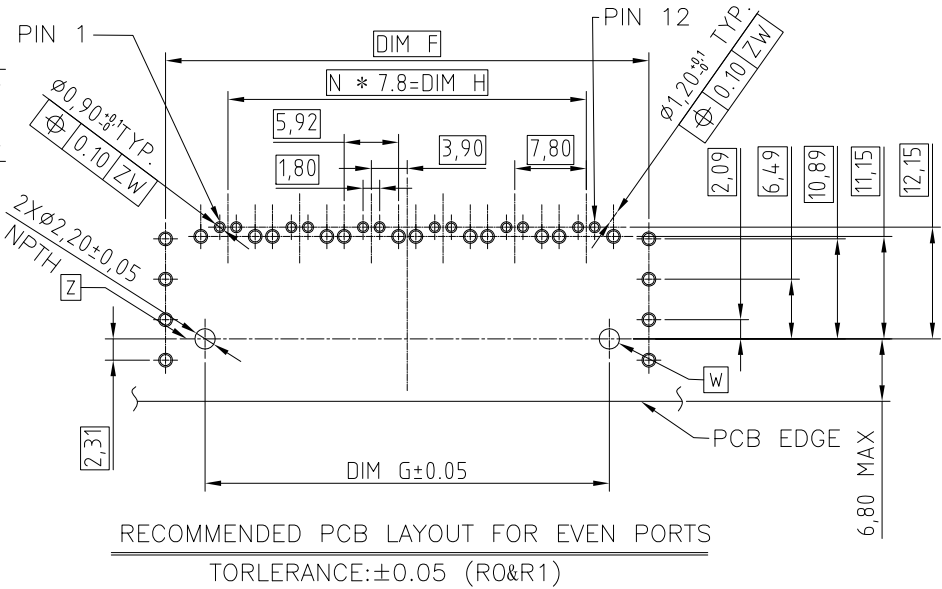
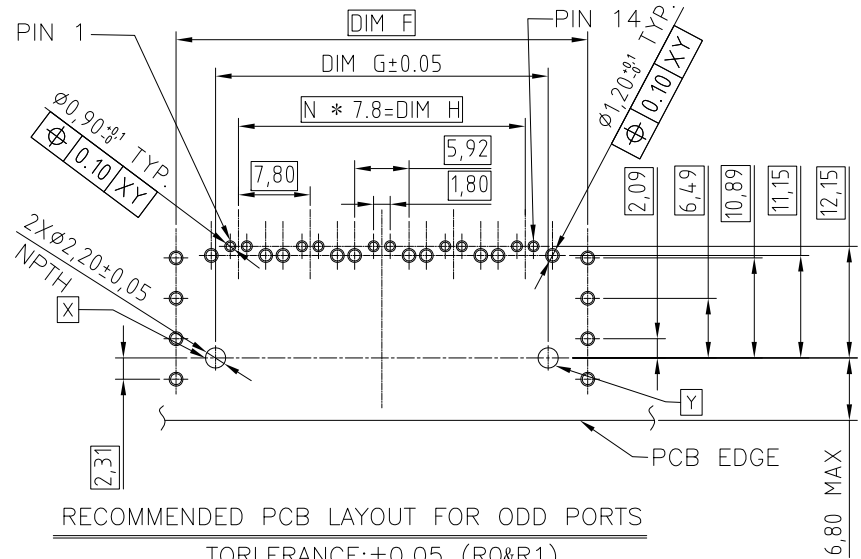
2,25 TYP.



DIM C



RO&R1 VERSION SHEET



UNLESS OTHERWISE SPECIFIED TOLERANCES	
U.S.	METRIC
.X	+/- 0.35
.XX	+/- 0.25
.XXX	+/- 0.10
FRACTIONS	+/- 3°
ANGLES	+/-

FOR MATERIALS AND FINISHES SEE NOTES

REMOVE SHARP EDGES	
DIMENSIONS	
U.S. (METRIC)	INCHES (MM)

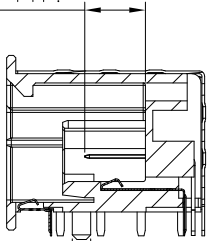
APPROVAL		DATE
DRAWN	DENNIS	07/17'19
CHECKED	DAM	07/17'19
DRAWING FILE :		
ANGLE OF PROJECTION		

Amphenol		Amphenol East Asia Limited
TITLE		
ETHERNET CONNECTOR, 1X1-1X7 PORTS, INDIRECT, R/A,ESD/NONE-ESD,SOLDER DIP.		
SIZE	DRAWING NO.	REV.
A3	NTBM1XR XU011X0X	10
SCALE	NONE	SHEET 2 OF 5

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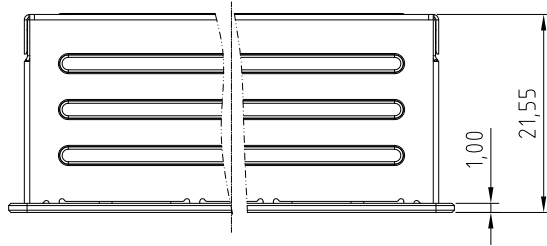
# CUSTOMER DRAWING

6,60±0,25 TYP.

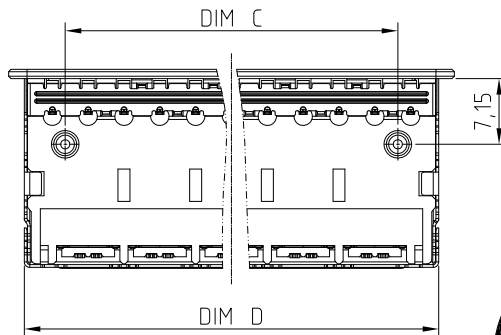
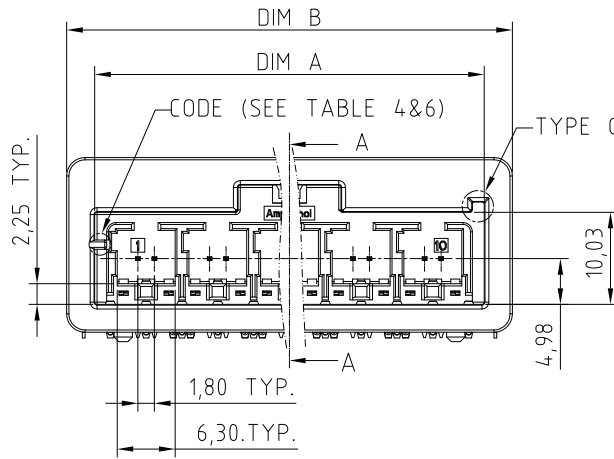
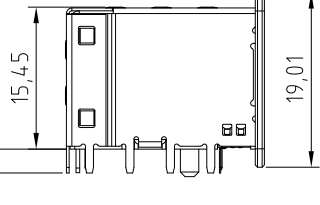


2X $\phi$ 2,00<sup>-0,1</sup>

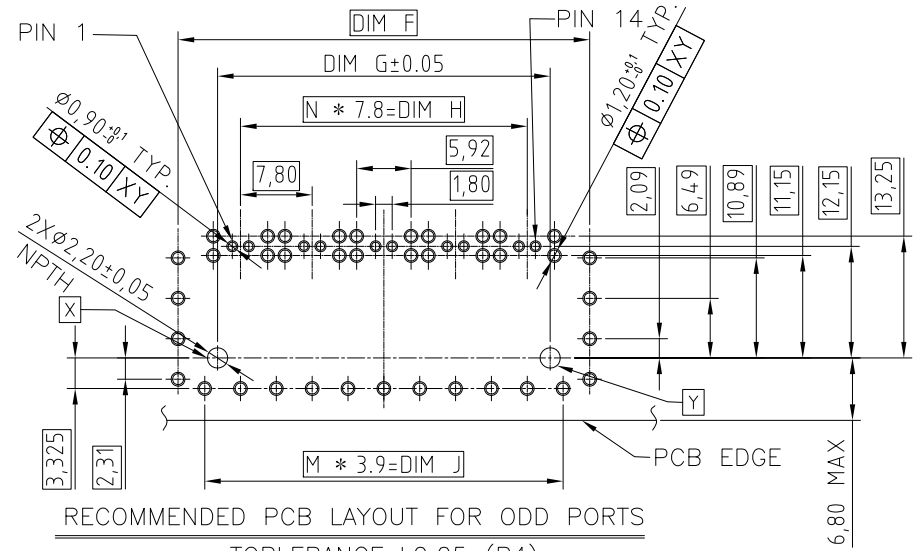
SECTION A-A



2,60±0,3 TYP.

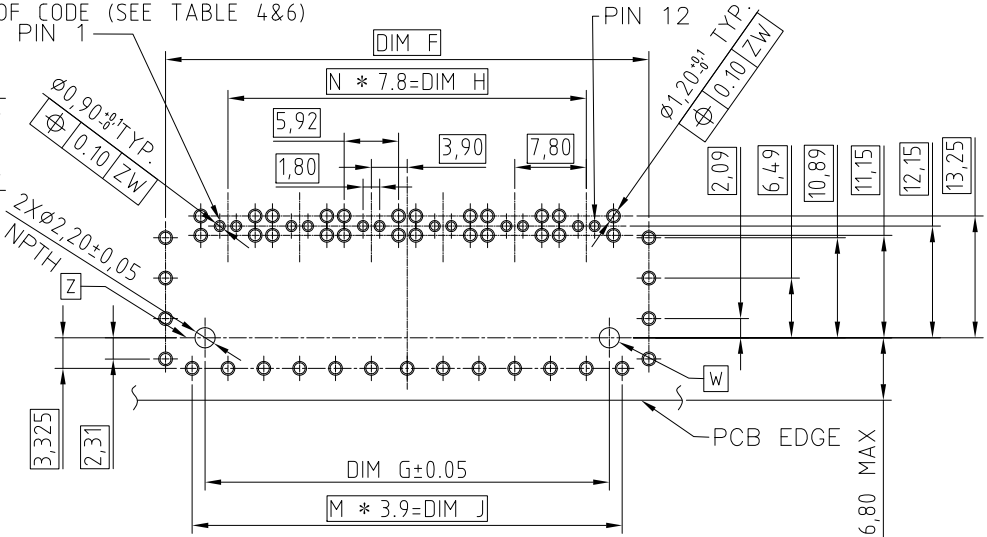


R4 VERSION SHEET



RECOMMENDED PCB LAYOUT FOR ODD PORTS

TORLERANCE:±0.05 (R4)



RECOMMENDED PCB LAYOUT FOR EVEN PORTS

TORLERANCE:±0.05 (R4)



UNLESS OTHERWISE SPECIFIED TOLERANCES	
U.S.	METRIC
.X	+/- 0.35
.XX	+/- 0.25
.XXX	+/- 0.10
FRACTIONS	+/- 3°
ANGLES	+/-

FOR MATERIALS AND FINISHES SEE NOTES

REMOVE SHARP EDGES

DIMENSIONS

U.S.	INCHES
(METRIC)	(MM)

APPROVAL		DATE
DRAWN	DENNIS	07/17'19
CHECKED	DAM	07/17'19
DRAWING FILE :		
ANGLE OF PROJECTION		

Amphenol	
Amphenol East Asia Limited	
TITLE ETHERNET CONNECTOR, 1X1-1X7 PORTS, INDIRECT, R/A,ESD/NONE-ESD,SOLDER DIP.	
SIZE DRAWING NO.	REV.
A3	10
SCALE	SHEET 3 OF 5
NONE	

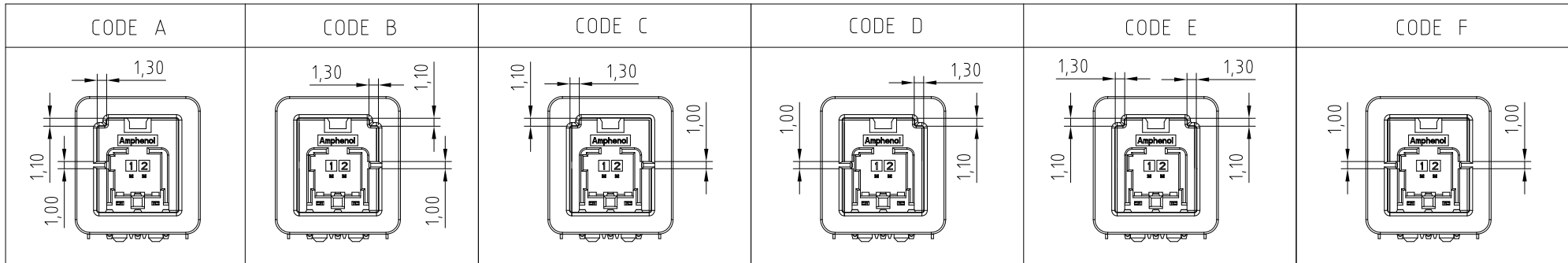
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# CUSTOMER DRAWING

TABLE 3(DIMENSION FOR DIM"X"):

PORT.	PART NO.	VERSION	DIM.A	DIM.B	DIM.C	DIM.D	DIM.E	DIM.F	DIM.G	DIM.H	DIM.J	M	N
1X7	NTBM17(R4/R5)U011X0X	R4	58.00	64.10	51.80	60.70	/	60.40	51.80	46.80	54.60	14	6
	NTBM17(R0/R1)U011X0X	R0/R1	58.00	64.10	51.80	/	62.60	60.40	51.80	46.80	/	/	6
1X6	NTBM16(R4/R5)U011X0X	R4	50.20	56.30	44.00	52.90	/	52.60	44.00	39.00	46.80	12	5
	NTBM16(R0/R1)U011X0X	R0/R1	50.20	56.30	44.00	/	54.80	52.60	44.00	39.00	/	/	5
1X5	NTBM15(R4/R5)U011X0X	R4	42.40	48.50	36.20	45.10	/	44.80	36.20	31.20	39.00	10	4
	NTBM15(R0/R1)U011X0X	R0/R1	42.40	48.50	36.20	/	47.00	44.80	36.20	31.20	/	/	4
1X4	NTBM14(R4/R5)U011X0X	R4	34.60	40.70	28.40	37.30	/	37.00	28.40	23.40	31.20	8	3
	NTBM14(R0/R1)U011X0X	R0/R1	34.60	40.70	28.40	/	39.20	37.00	28.40	23.40	/	/	3
1X3	NTBM13(R4/R5)U011X0X	R4	26.80	32.90	20.60	29.50	/	29.20	20.60	15.60	23.40	6	2
	NTBM13(R0/R1)U011X0X	R0/R1	26.80	32.90	20.60	/	31.40	29.20	20.60	15.60	/	/	2
1X2	NTBM12(R4/R5)U011X0X	R4	19.00	25.10	12.80	21.70	/	21.40	12.80	7.80	15.60	4	1
	NTBM12(R0/R1)U011X0X	R0/R1	19.00	25.10	12.80	/	23.60	21.40	12.80	7.80	/	/	1
1X1	NTBM11(R4/R5)U011X0X	R4	11.20	17.30	5.00	13.90	/	13.60	5.00	0	7.80	2	0
	NTBM11(R0/R1)U011X0X	R0/R1	11.20	17.30	5.00	/	15.80	13.60	5.00	0	/	/	0

TABLE 4: TYPE OF CODE(FOR 1X1 HOUSING ONLY):



UNLESS OTHERWISE SPECIFIED TOLERANCES		APPROVAL		DATE	
	U.S.	METRIC	DRAWN	DENNIS	07/17/19
.X	+/-	0.35	CHECKED	DAM	07/17/19
.XX	+/-	0.25	CHECKED		
.XXX	+/-	0.10			
FRACTIONS	+/-	3°	DRAWING FILE :		
ANGLES	+/-		ANGLE OF PROJECTION		
FOR MATERIALS AND FINISHES SEE NOTES					
REMOVE SHARP EDGES					
DIMENSIONS					
U.S.	INCHES				
(METRIC)	(MM)				

Amphenol		Amphenol East Asia Limited	
TITLE ETHERNET CONNECTOR, 1X1-1X7 PORTS, INDIRECT, R/A,ESD/NONE-ESD,SOLDER DIP.			
SIZE DRAWING NO.		REV.	
A3	NTBM1XR XU011X0X	10	
SCALE	NONE	SHEET 4 OF 5	

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# CUSTOMER DRAWING

TABLE 5: (TYPE OF CODE OF HOUSING 1X2-1X7):

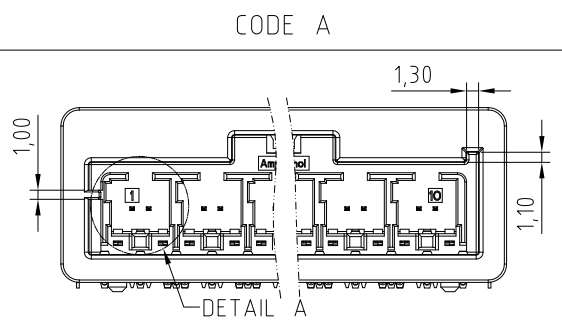
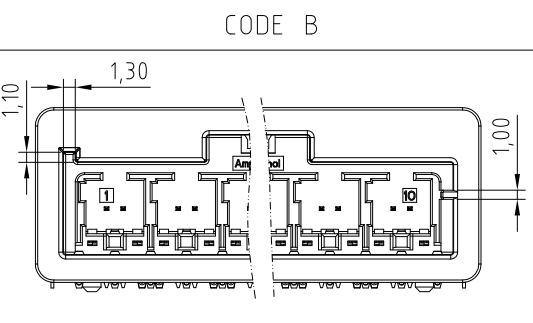
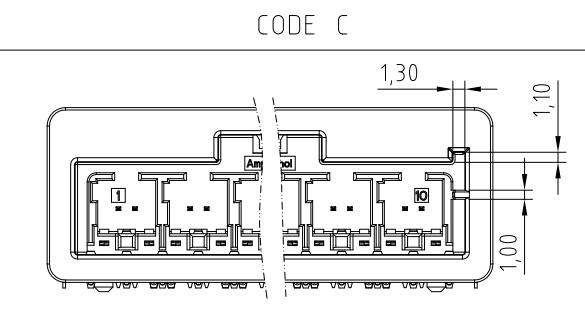
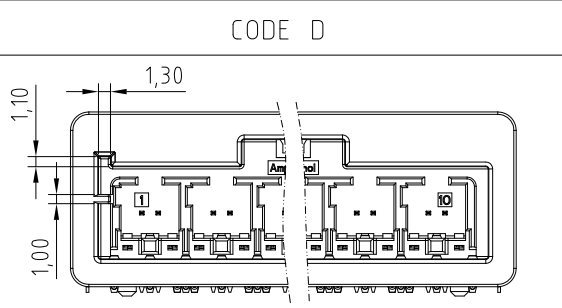
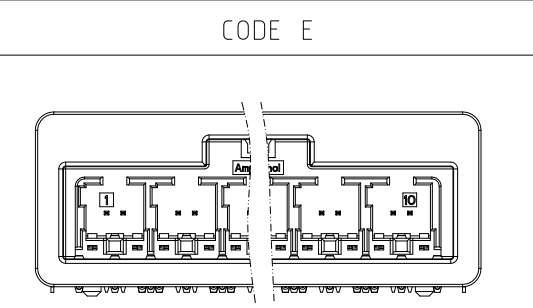
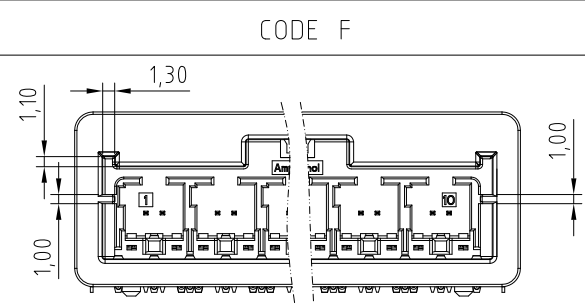
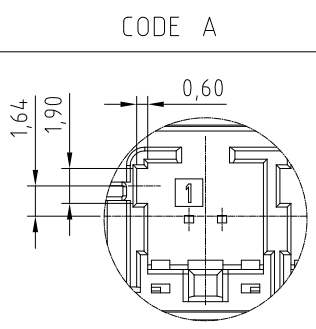
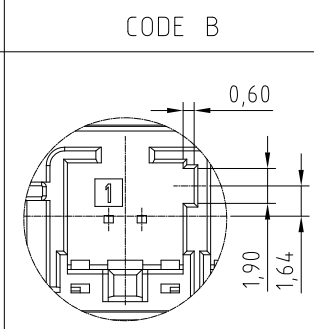
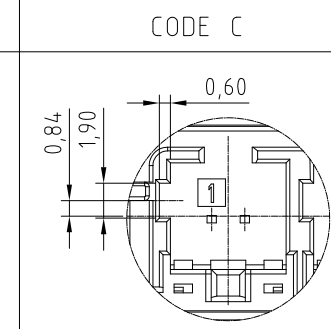
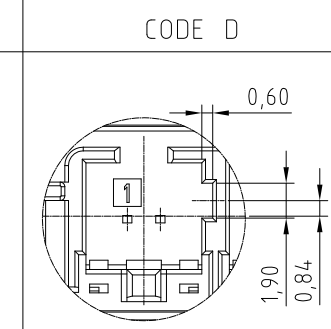
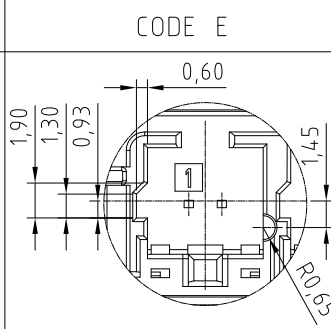
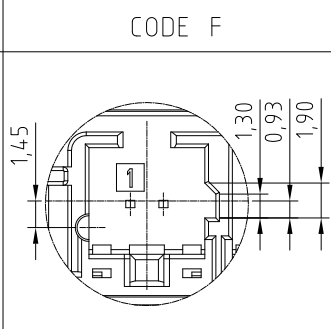
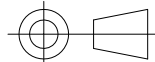
CODE A	CODE B	CODE C
		
CODE D	CODE E	CODE F
		

TABLE 6: (DETAIL A: TYPE OF CODE FOR CONTACT CARRIER):

CODE A	CODE B	CODE C	CODE D	CODE E	CODE F
					



UNLESS OTHERWISE SPECIFIED TOLERANCES	
U.S.	METRIC
.X +/-	0.35
.XX +/-	0.25
.XXX +/-	0.10
FRACTIONS +/-	
ANGLES +/-	3°
FOR MATERIALS AND FINISHES SEE NOTES	
REMOVE SHARP EDGES	
DIMENSIONS	
U.S. (METRIC)	INCHES (MM)

APPROVAL		DATE
DRAWN	DENNIS	07/17/19
CHECKED	DAM	07/17/19
DRAWING FILE :		
ANGLE OF PROJECTION		
		

Amphenol	
Amphenol East Asia Limited	
TITLE ETHERNET CONNECTOR, 1X1-1X7 PORTS, INDIRECT, R/A,ESD/NONE-ESD,SOLDER DIP.	
SIZE DRAWING NO.	REV.
A3 NTBM1XR XU011X0X	10
SCALE	SHEET 5 OF 5
NONE	