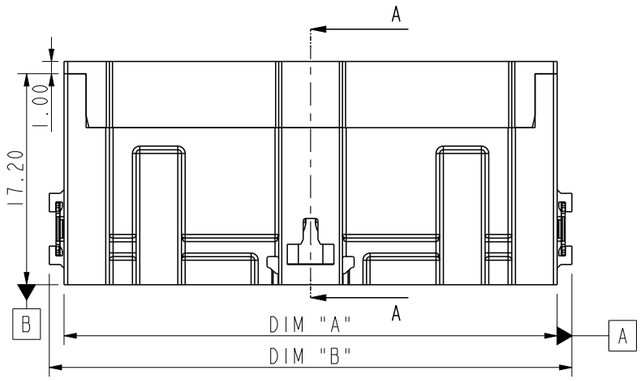
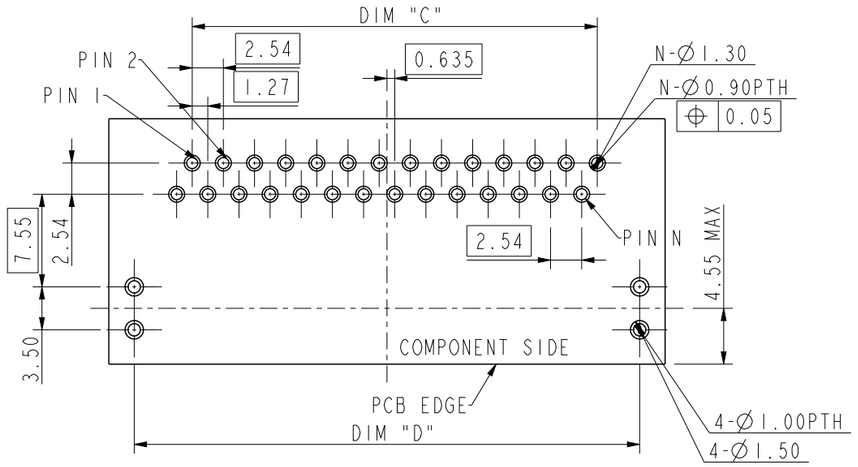
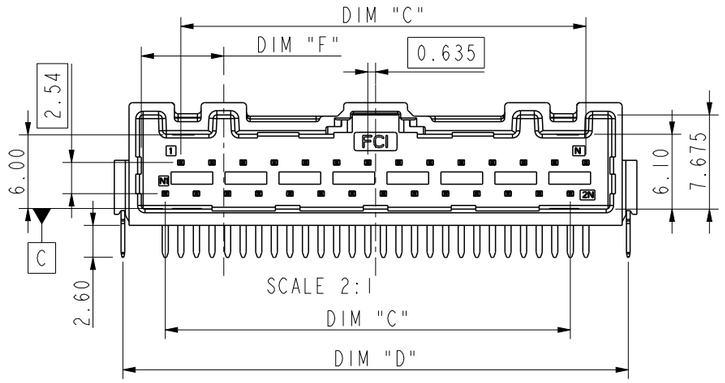


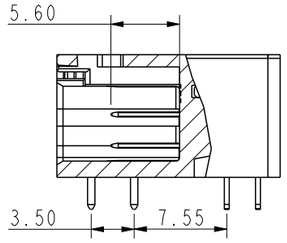


LAYOUT RECOMMENDED
TOLERANCE:±0.05

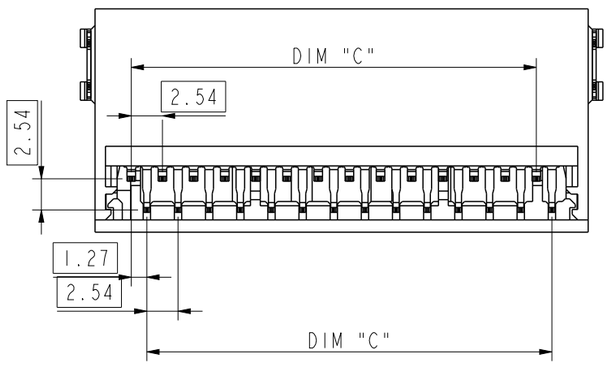
PIN NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"
36 Pin	50.36	52.76	43.18	51.36
34 Pin	47.82	50.22	40.64	48.82
32 Pin	45.28	47.68	38.10	46.28
30 Pin	42.74	45.14	35.56	43.74
28 Pin	40.20	42.60	33.02	41.20
26 Pin	37.66	40.06	30.48	38.66
24 Pin	35.12	37.52	27.94	36.12
22 Pin	32.58	34.98	25.40	33.58
20 Pin	30.04	32.44	22.86	31.04
18 Pin	27.50	29.90	20.32	28.50
16 Pin	24.96	27.36	17.78	25.96
14 Pin	22.42	24.82	15.24	23.42
12 Pin	19.88	22.28	12.70	20.88
10 Pin	17.34	19.74	10.16	18.34

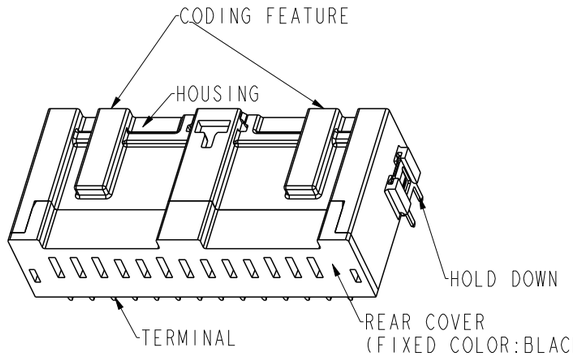
Coding	DIM F
A	6.73
B	6.23
C	5.73
D	7.23





SECTION A-A





Part number scheme

10166409-FXXX10XLF

- CONNECTOR STYLE
  F: RIGHT ANGLE
  NO STANDOFF & POST
- PIN NUMBER
  36- 36 PIN
  34- 34 PIN
  ~~~
  22- 22 PIN
  20- 20 PIN
- CONTACT AREA PLATING
  1. 8u" GXT OR GOLD
  2. 40u"TIN
- LEAD FREE
- CODING TYPE (SEE NOTES 7)
  1: NO CODING FEATURE (BLACK)
  A: CODING A BLACK
  B: CODING B GREEN(RAL6002)
  C: CODING C WHITE(RAL9001)
  D: CODING D Bordeaux(RAL4004)
- TAIL SPACER OPTION
  0: WITHOUT SPACER
- REAR COVER OPTION
  1: WITH REAR COVER

NOTES:
1. MATERIAL:
   1.1 HOUSING AND SPACER OR REAR COVER: THERMOPLASTIC
   1.2 TERMINAL AND HOLD DOWN: COPPER ALLOY
2. PLATING: 1-3μm NI UNDER PLATING;
   2.1 CONTACT AREA: ACCORDING TO PART NUMBER;
   2.2 SOLDER TAIL: TIN PLATING.
3. PRODUCT SPEC GS-12-1535
4. THIS HOUSIONG WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN A IR REFLOW SOLDERING APPLICATION.
5. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
6. RA 10166409 CAN MATE WITH CABLE KITS 10166410 & TERMINAL 10163003
   RA 10166407 CAN MATE WITH RA CONN 10158558 OR VT CONN 10161735
7. CODING FEATURE CAN BE OFFERED FOR 20-36 POS,NO CODING FEATURE FOR 10-18 POS, AND ABC CODING FOR 20POS & ABCD CODING FOR 22~36PIN.
8. 10-18PIN CAN SUPPORT CODING COLOR FOR HOUSING BUT WIHTOUT CONDING STRUCTURE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | | | dr | Ward Wang | 2023/02/21 | projection | mm |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Ward Wang | 2023/07/13 | | |
| | | | chr | - | - | | |
| | | | appr | Tim Yao | 2023/07/14 | product family | |
| surface | linear | 0.X ±0.5 | Amphenol FCi | title | FlexLock HEADER RA | dwg no | 10166409 |
| | | 0.XX ±0.25 | | | Flex to Wire 2.54mm Pitch Connector | | |
| | | 0.XXX ±0.10 | | | | | |
| | angular | 0° ±2° | | cat. no. | Product - Customer Drw | | |

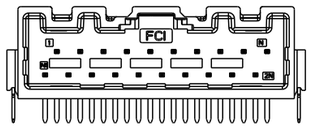
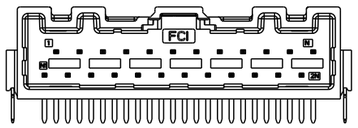
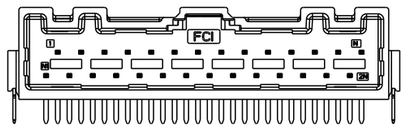
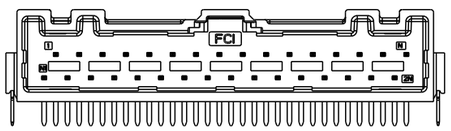
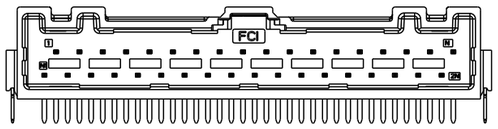
| size | scale | rev |
|---|---|---|
| A3 | 1:1 | D |

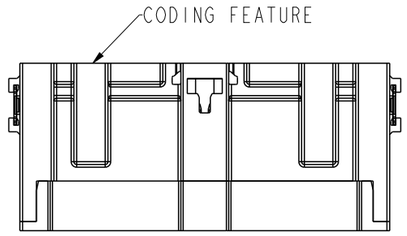
ecn no ELX-N-48704-1
rel level **Released**
sheet 1 of 2

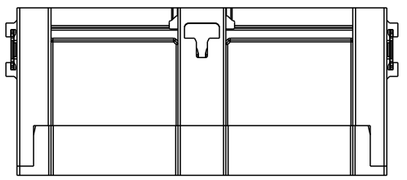
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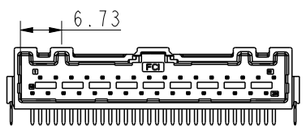
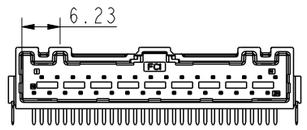
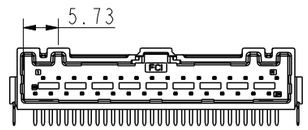
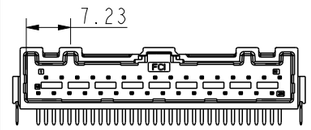
Creo File:ELX-WC-A3C,REV F,2020-12-21

PDS: Rev :D STATUS:Released Printed: Jul 14, 2023
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PIN NUM	FRONT VIEW		DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	CODING DIM "F"
20PIN		N=10 NI=11 2N=20	30.04	32.44	22.86	28.24	31.04	A: DIM F 6.73 BLACK B: DIM F 6.23 GREEN(RAL6002) C: DIM F 5.73 WHITE(RAL9001)
24PIN		N=12 NI=13 2N=24	35.12	37.52	27.94	33.32	36.12	A: DIM F 6.73 BLACK B: DIM F 6.23 GREEN(RAL6002) C: DIM F 5.73 WHITE(RAL9001) D: DIM F 7.23 BORDEAUX(RAL4004)
28PIN		N=14 NI=15 2N=28	40.20	42.60	33.02	38.40	41.20	
32PIN		N=16 NI=17 2N=32	45.28	47.68	38.10	43.48	46.28	
36PIN		N=18 NI=19 2N=36	50.36	52.76	43.18	48.56	51.36	





A CODE / COLOR:BLACK	B CODE / COLOR: GREEN COLOR CODE:RAL6002	C CODE / COLOR: WHITE COLOR CODE:RAL9001	D CODE / COLOR: BORDEAUX COLOR CODE:RAL4004
			

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spec ref			dr	Ward Wang	2023/02/21	projection: mm
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Ward Wang	2023/07/13	size A3 / scale 2:1
			chr	-	-	ecn no ELX-N-48704-1
			appr	Tim Yao	2023/07/14	product family / rel level Released
surface	linear	0.X ±0.5				
		0.XX ±0.25				
		0.XXX ±0.10				
	angular	0° ±2°				

Amphenol FCI — amphenol-icc.com

title: FlexLock HEADER RA
Flex to Wire 2.54mm Pitch Connector

dwg no: 10166409 — rev: D

cat. no. — Product - Customer Drw — sheet 2 of 2

Creo File:ELX-WC-A3C,REV F,2020-12-21

PDS: Rev :D — STATUS:Released — Printed: Jul 14, 2023