

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0643191216](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059") CMC Receptacle, 32 Circuits, Left Wire Output, Blue Coding, Mat Sealed

Documents:

[3D Model](#)
[Drawing \(PDF\)](#)
[Application Specification \(PDF\)](#)
[Product Specification PS-64319-001 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family Crimp Housings
Series [64319](#)
Comments * Current tested on a 5 terminals loaded connector, current for * Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C . Current max = 6.0A for 0.635mm Terminal (0.75mm² wire) and 12.0A for 1.5mm Terminal (2.0mm² wire) * Sealed, high-density, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
[cmc_connectors](#)
More Detailed Tech Information CMC
Overview
Product Name

Physical

Circuits (maximum) 32
Circuits Detail 8 x 1.5mm & 24 x 0.635mm terminals
Color - Resin Blue
Gender Female
Glow-Wire Compliant No
Keying to Mating Part Yes
Lock to Mating Part Yes
Material - Resin Polyester
Number of Rows 4
Packaging Type Carton
Panel Mount No
Pitch - Mating Interface (in) 0.100 In, 0.146 In
Pitch - Mating Interface (mm) 2.54 mm, 3.70 mm
Polarized to Mating Part Yes
Stackable No
Temperature Range - Operating -40°C to +125°C

Electrical

Current - Maximum per Contact 12A, 6A

Material Info

Reference - Drawing Numbers

[Application Specification](#) AS-64319-001
[Packaging Specification](#) PK-64319-001
[Product Specification](#) PS-64319-001
[Sales Drawing](#) SD-64319-001, SD-98993-001

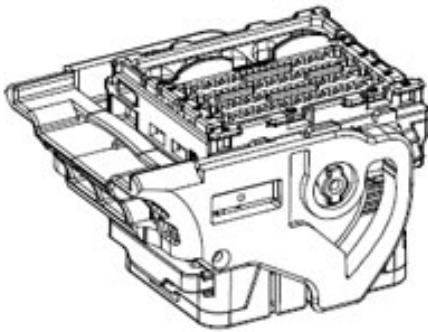


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[64319Series](#)

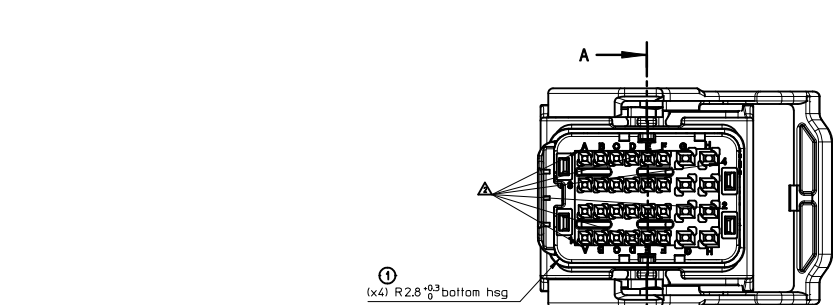
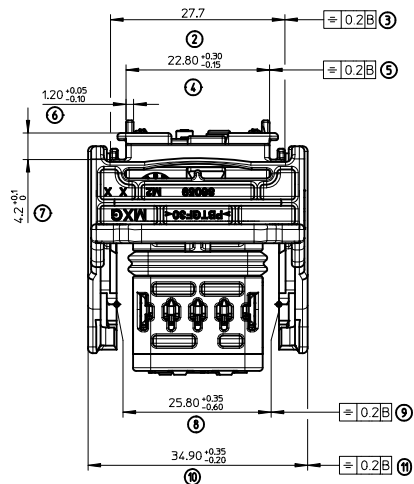
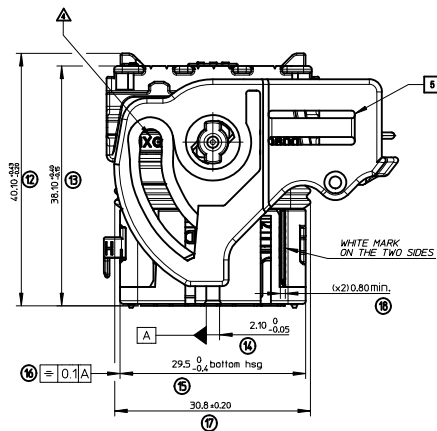
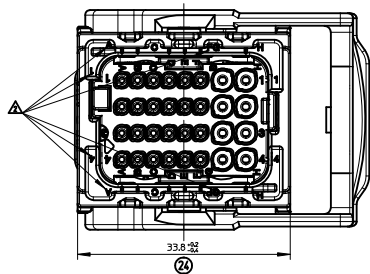
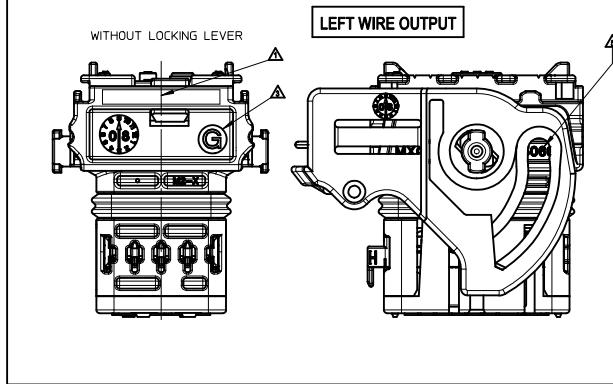
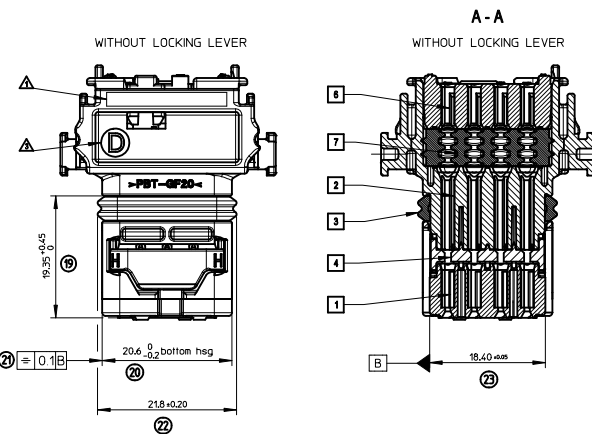
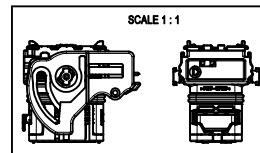
Mates With

Single 32 Circuit CMC Header - Please Contact Molex

Use With

CMC CP Terminals [64322](#) , [64323](#). CMC Wire Cap [643191201](#). Sealing Plugs [643251010](#) , [643251023](#)

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LEFT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643191211	BLACK
0643191218	GREY
0643191219	BROWN
0643191216	BLUE

RIGHT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643193211	BLACK
0643193218	GREY
0643193219	BROWN
0643193216	BLUE

NOTES:

- FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING SHOWN IS THE RIGHT WIRE OUTPUT VERSION CODING 1
- APPLICATION SPECIFICATION: AS-64319-001
- WIRES EXTERNAL DIAMETER USED:
FOR CP0.6 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø125MM MIN AND Ø190MM MAX
FOR CP1.5 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø140MM MIN AND Ø280MM MAX
- THE CONNECTOR FITS WITH WIRE CAP (32 WAY) MOLEX P/N 0643191201
- BLIND PLUG FOR CP 0.6 AND 15 CAVITIES (MOLEX P/N 0643251010 AND 0643251023) MUST BE USED ON THIS PART.
- DELIVERED PRODUCT WEIGHT: 27.6 g

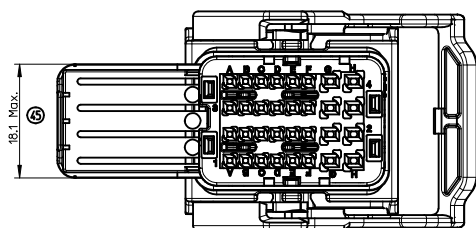
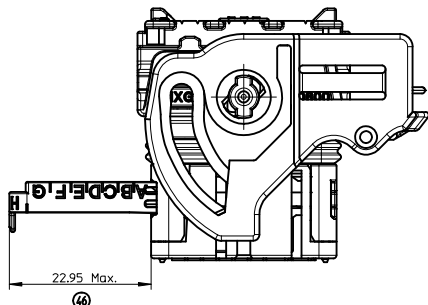
FOR	DESIGNATION	MATERIAL	COLOR
1	MAT SEAL	Silicon	GREEN
2	BACK GRID 32W	>PBT-QF20<	GREY
3	LOCKING LEVER 32W	>PBT-QF20<	BLACK
4	SECONDARY LOCK	>PBT-QF20<	GREEN
5	PERIPHERAL SEAL 32W	Silicon	BLUE
6	BACK PART	>PBT-QF20<	BLACK
7	FRONT PART	>PBT-QF20<	COLOR LINKED TO KEYING

MARKINGS :

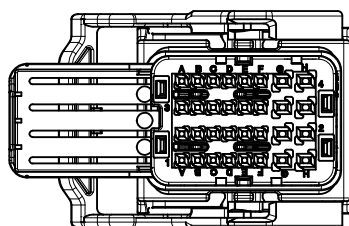
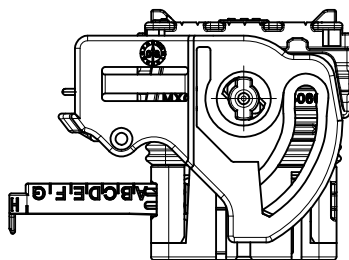
- Assembled part tracability:
Day + Year
- Terminal cavities identification
- Lever position indicator:
'D' LETTER VISIBLE = 'LEVER ON THE RIGHT'
'G' LETTER VISIBLE = 'LEVER ON THE LEFT'
- Supplier identification
- Material identification

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		FIRST ANGLE PROJECTION	
		mm	INCH	MM ONLY		METRIC			
4 PLACES	± 0.1	± 0.004	± 0.004	DRAWN BY		DATE		TITLE	
3 PLACES	± 0.1	± 0.004	± 0.004	T. BADAROUX		2007/07/16		CMC CONNECTOR 32 WAY	
2 PLACES	± 0.1	± 0.004	± 0.004	CHECKED BY		DATE		MAT SEAL VERSION	
1 PLACE	± 0.1	± 0.004	± 0.004	P. GRANDCLAUD		2007/07/16			
ANGULAR ± 2 °		APPROVED BY		DATE					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		C. BOUCHAN		2007/07/16					
SEE SHEET 2		MATERIAL NO.		DOCUMENT NO.					
SIZE 1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SD-64319-001		SHEET NO.		1 OF 2	

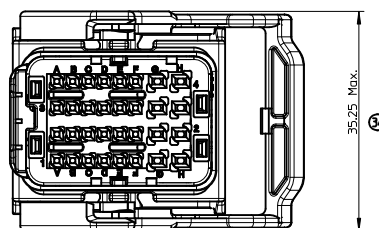
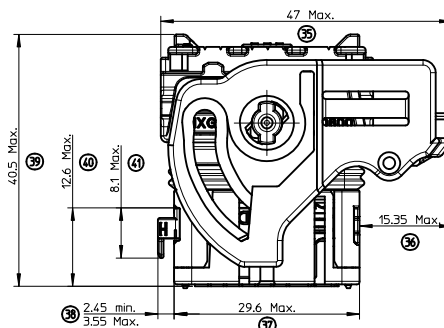
RIGHT WIRE OUTPUT



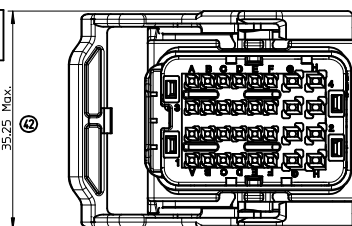
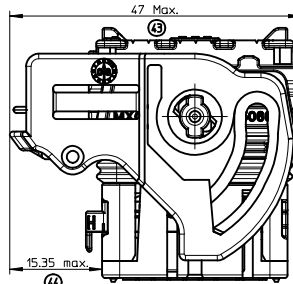
LEFT WIRE OUTPUT



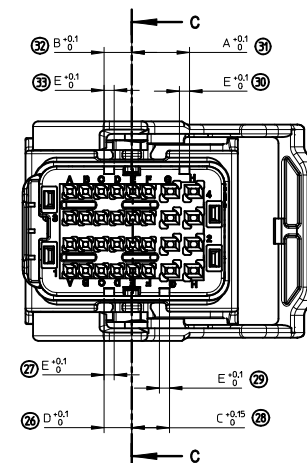
RIGHT WIRE OUTPUT



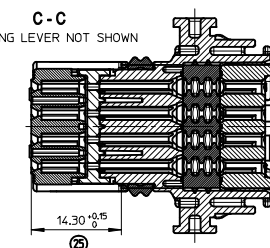
LEFT WIRE OUTPUT



CODING POSITION



C-C
LOCKING LEVER NOT SHOWN



COLOR	CODING	A	B	C	D	E
BLACK	1	9.2	4.4	6	4.4	1.6
GREY	2	7.6	6	9.2	6	1.6
BROWN	3	6	7.6	9.2	9.2	1.6
BLUE	5	4.4	7.6	6	6	1.6

TERMINALS USED				
CAVITY N°	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX PIN®	min / MAX WIRE INSULATION DIAMETER (mm)
A1 to F1 A2 to F2 A3 to F3 A4 to F4	CP 0,6 0,35mm2	Tin plated	0643221019	Ø125 min / Ø140 Max
		Gold plated	0643221229	
	CP 0,6 0,5mm2	Tin plated	0643221039	Ø140 min / Ø170 Max
		Gold plated	0643221239	
	CP 0,6 0,75mm2	Tin plated	0643221029	Ø160 min / Ø190 Max
		Gold plated	0643221219	
G1 to H4 G1 to H4	CP 15 0,5mm2 to 1mm2	Tin plated	0643231029	Ø140 min / Ø215 Max
		Gold plated	0643231319	
	CP 15 >1mm2 to 2mm2	Tin plated	0643231039	Ø210 min / Ø280 Max
		Gold plated	0643231219	

[illegible]

EC NO: DRWN:GDESBRUERES 2009/06/03

CH'KD:C. BOUCHAN
APPR:

REV	DESCRIPTION
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GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .---	± .---
3 PLACES	± .---	± .---
2 PLACES	± 0.1	± .---
1 PLACE	± 0.1	± .---

ANGLE BAR ± 2 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
T. BADAROUX	2007/07/16
CHECKED BY	DATE
P. GRANDCLAUD	2007/07/16
APPROVED BY	DATE
C. BOUCHAN	2007/07/16

MATERIAL NO.	
SEE CHART SH.2	
SIZE A1	THIS DRAWING CONT INCORPORATED AND

SCALE	2.5:1
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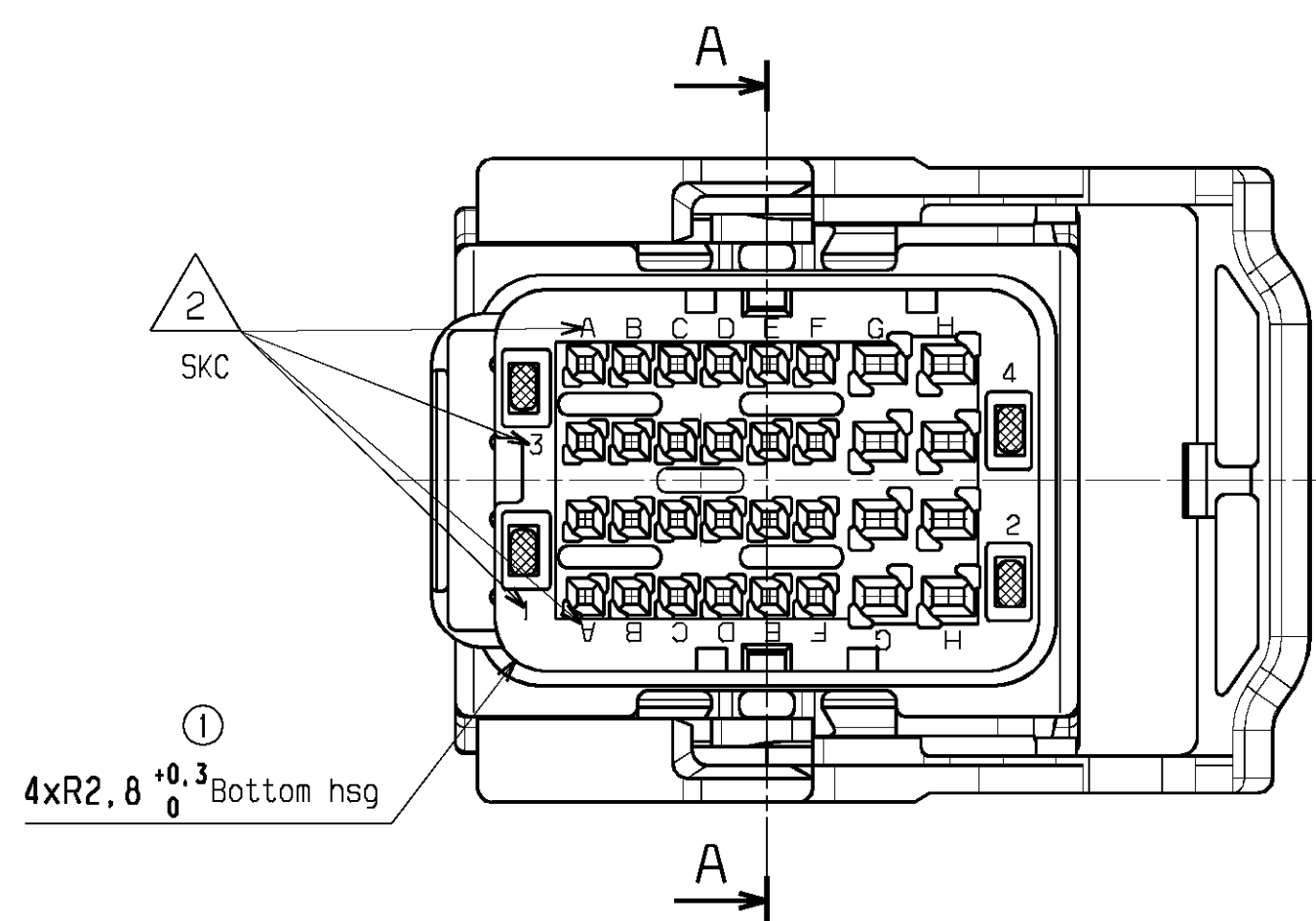
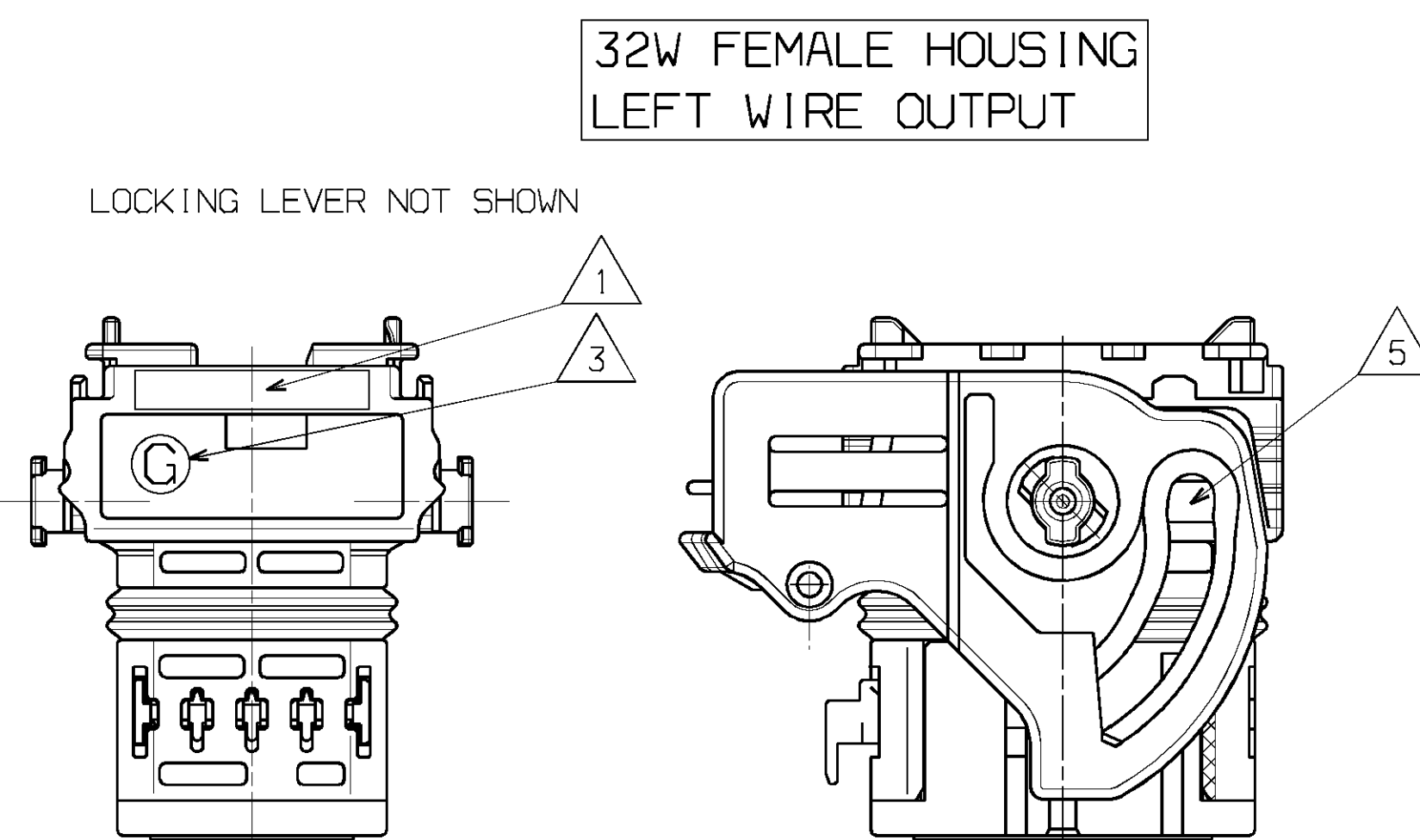
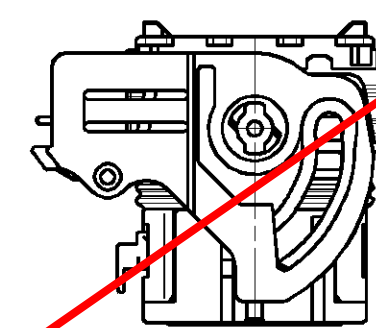
DESIGN UNITS
METRIC

© FIRST ANGLE
PROJECTION

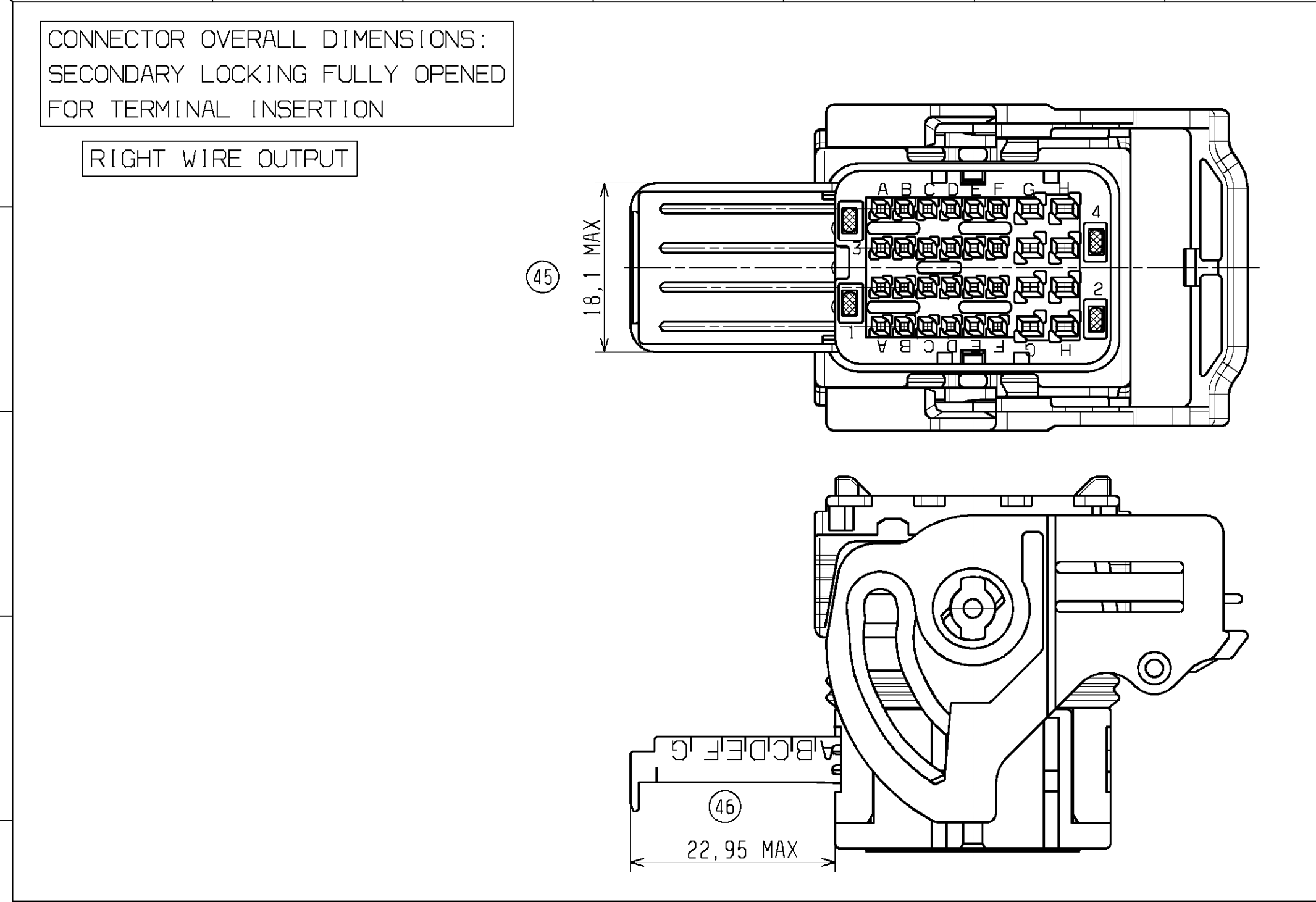
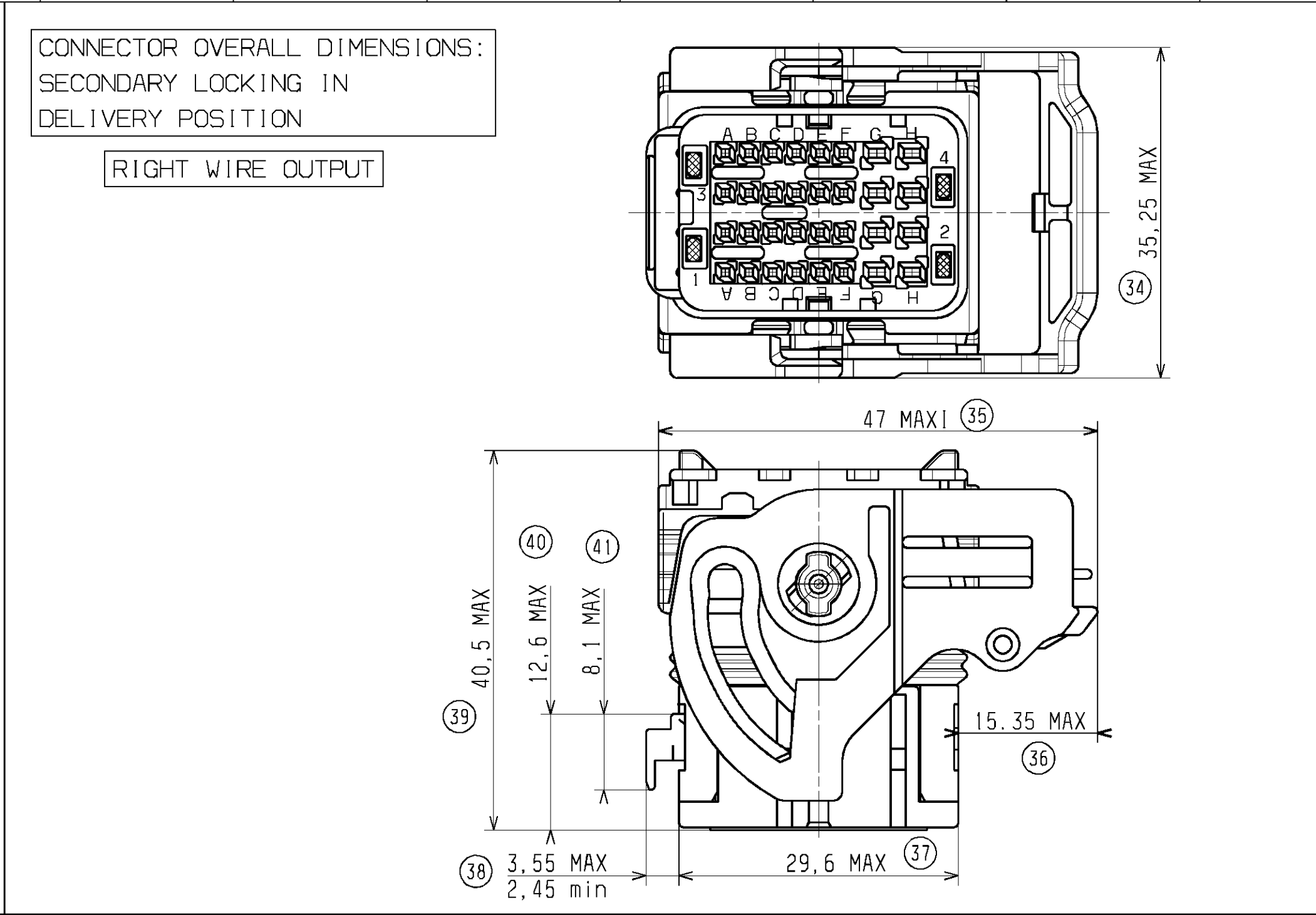
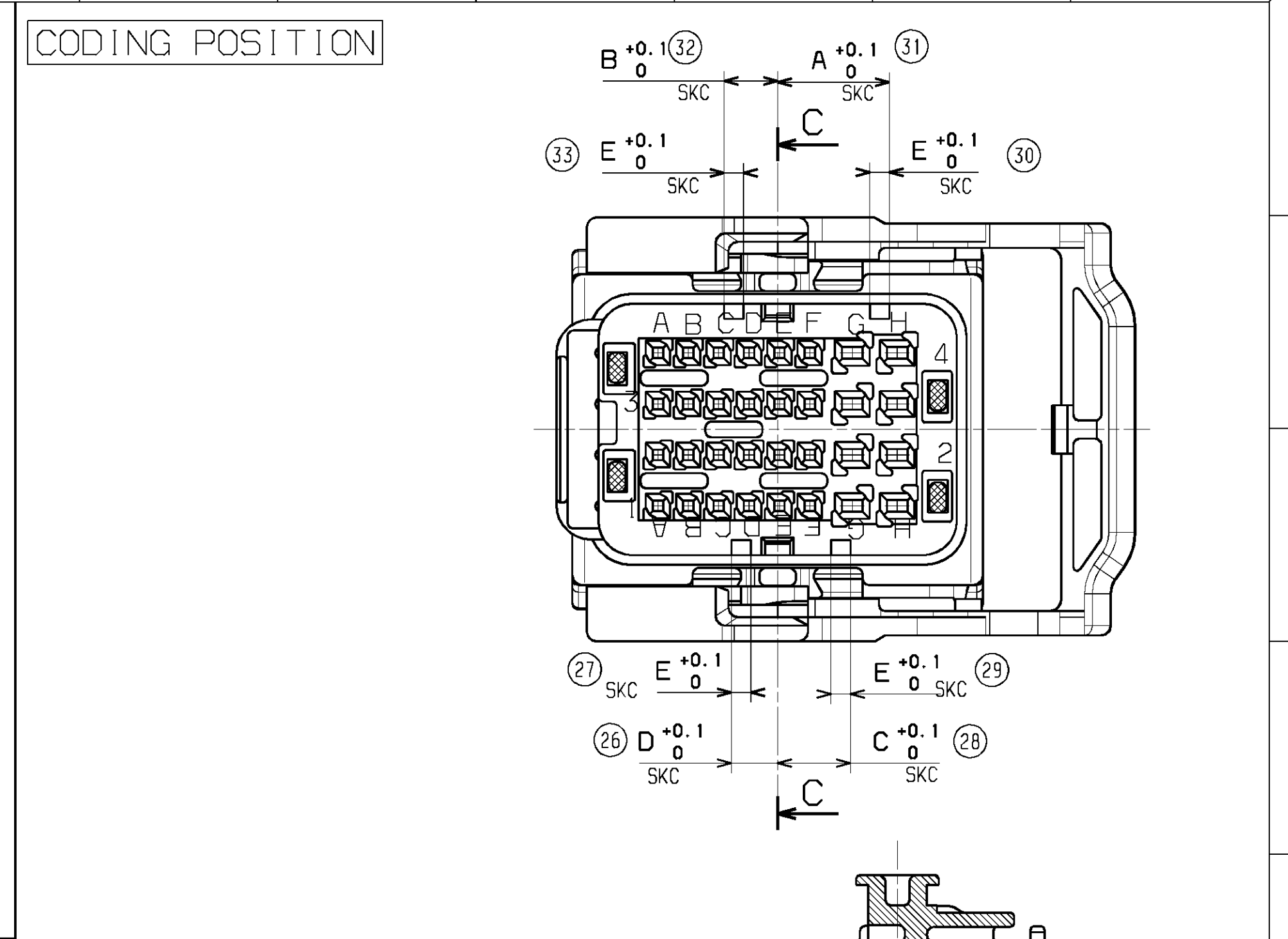
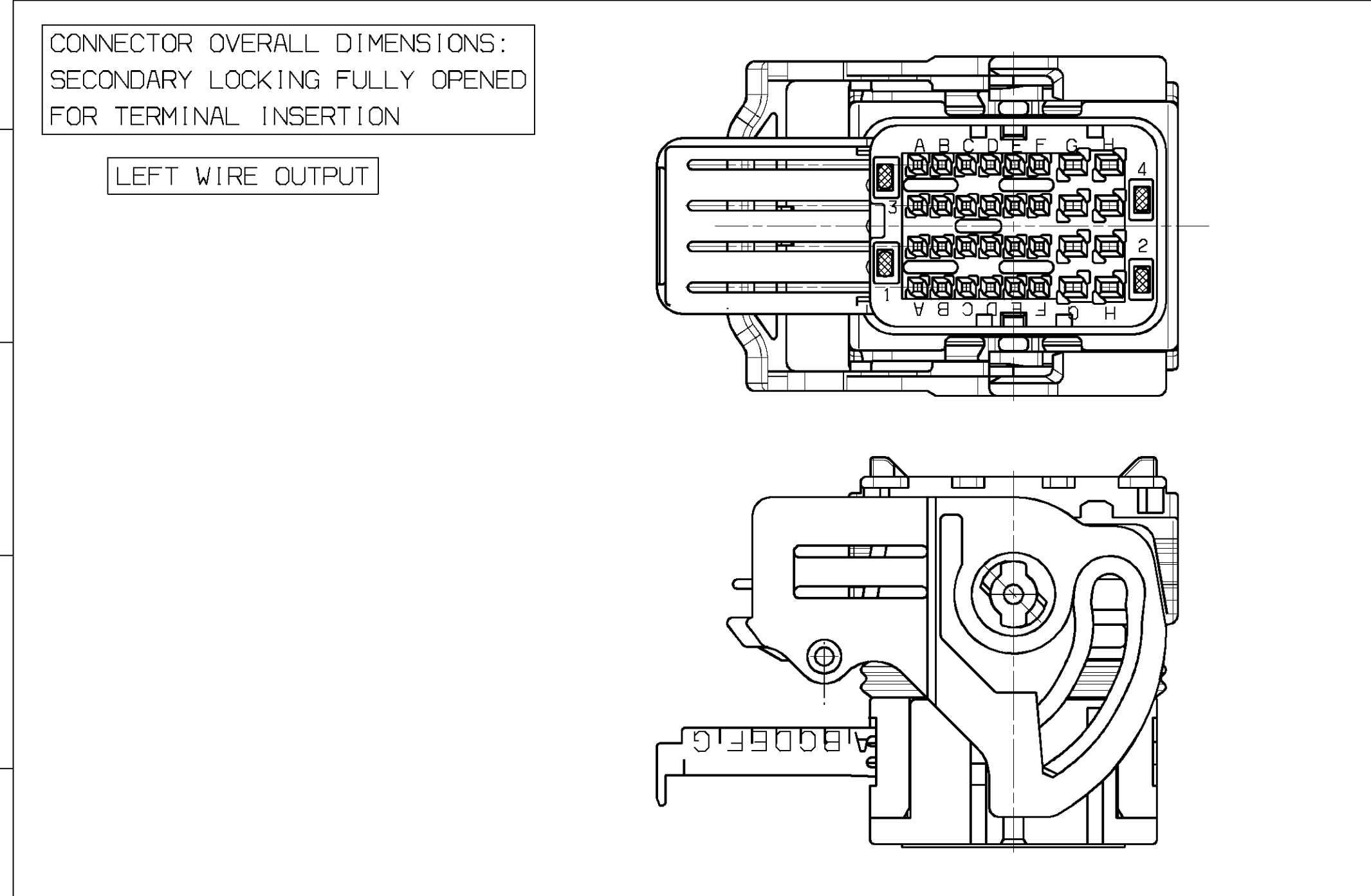
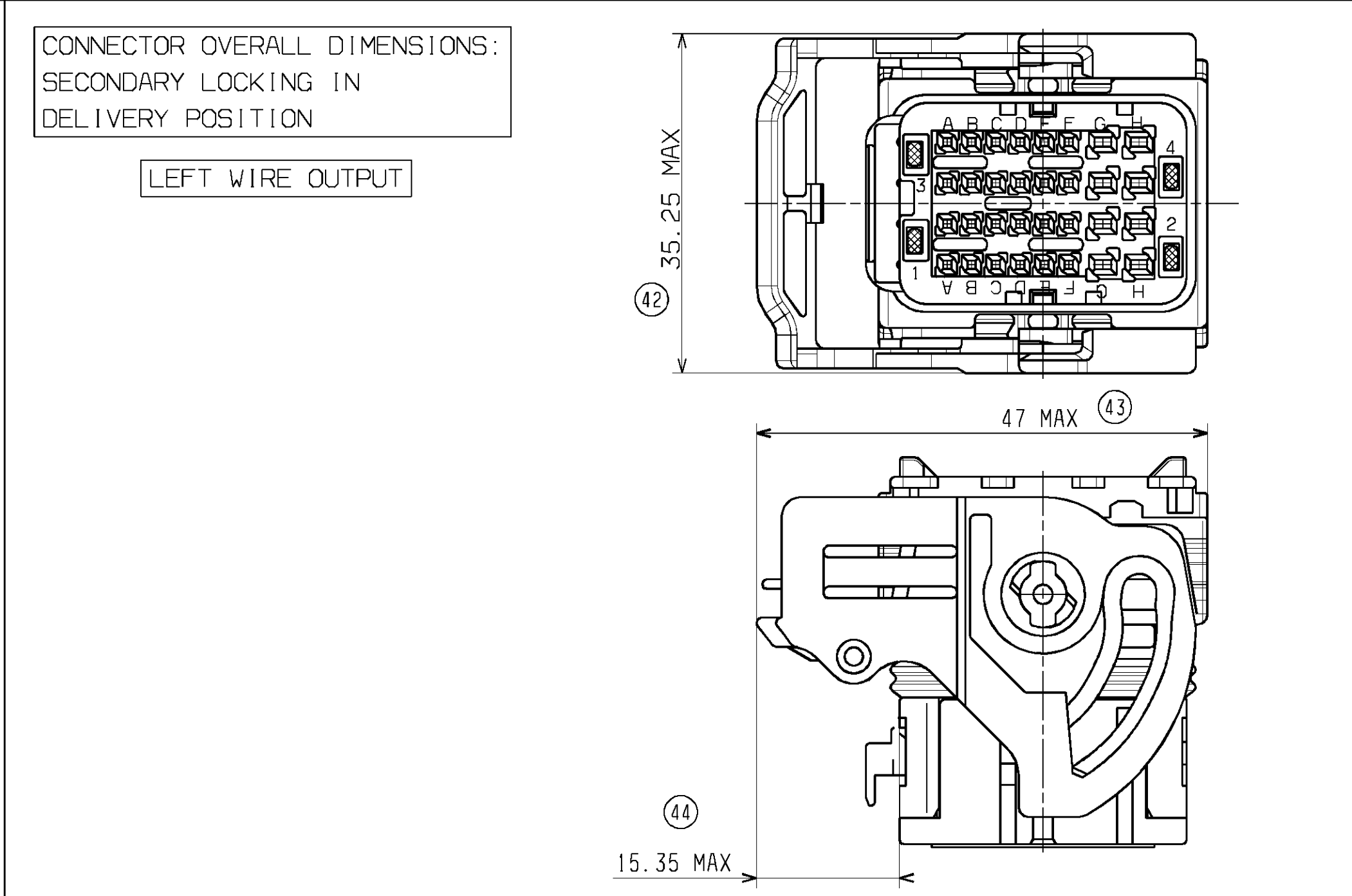
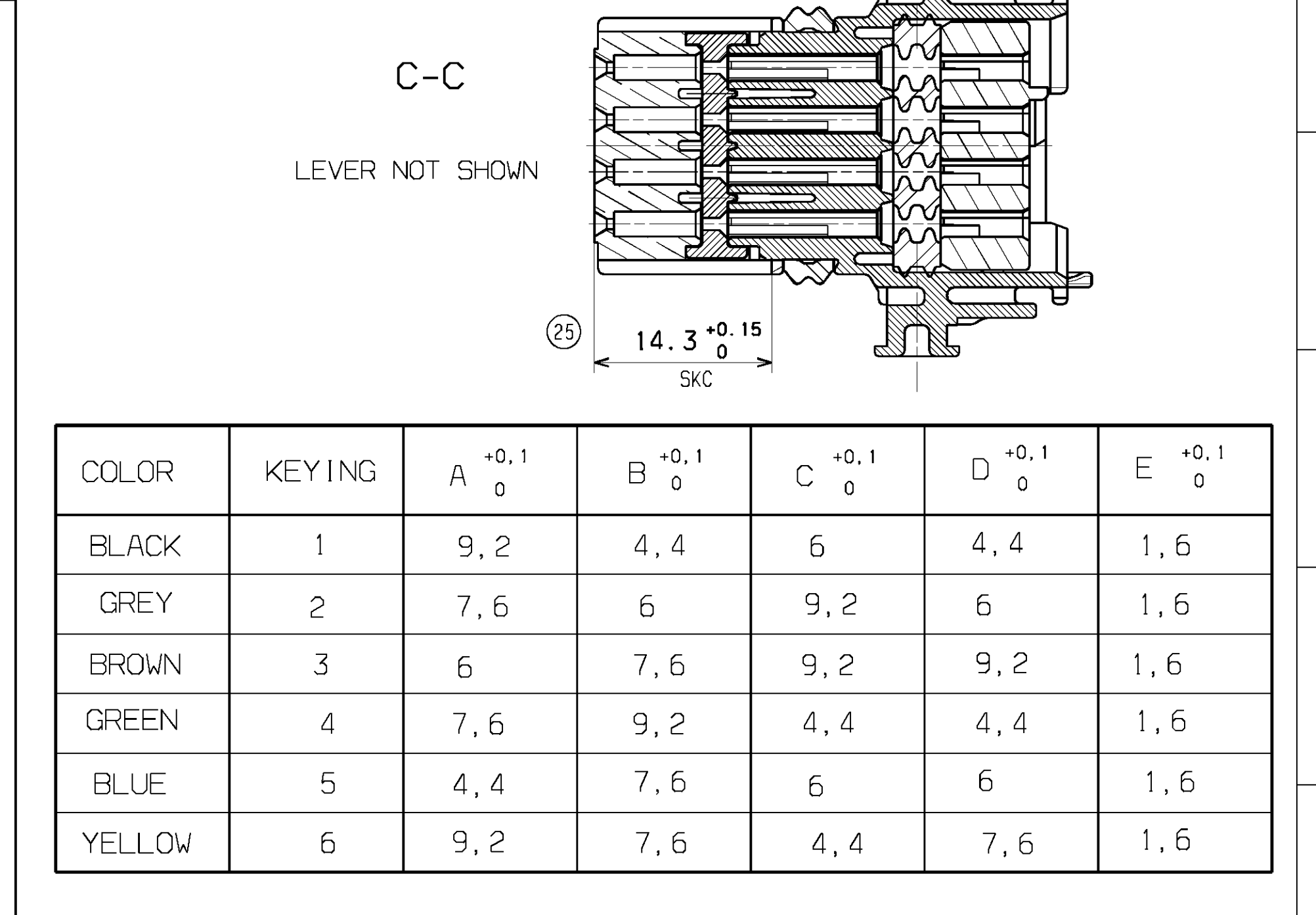
	ITEM	NAME	PROJECTION
16		CMC CONNECTOR 32 WAY MAT SEAL VERSION	

16	MOLEX INCORPORATED	
2	DOCUMENT NO. SD-64319-001	SHEET NO. 2 OF 2

CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



FEMALE HOUSING 32 WAY RIGHT WIRE OUTPUT	
MATERIAL NUMBER	COLOR
0643193211	BLACK
0643193218	GREY
0643193219	BROWN
	GREEN
0643193216	BLUE
	YELLOW



COLOR	KEYING	A ^{+0.1} ₀	B ^{+0.1} ₀	C ^{+0.1} ₀	D ^{+0.1} ₀	E ^{+0.1} ₀
BLACK	1	9,2	4,4	6	4,4	1,6
GREY	2	7,6	6	9,2	6	1,6
BROWN	3	6	7,6	9,2	9,2	1,6
GREEN	4	7,6	9,2	4,4	4,4	1,6
BLUE	5	4,4	7,6	6	6	1,6
YELLOW	6	9,2	7,6	4,4	7,6	1,6

TERMINALS USED		MOLEX PART NUMBER			
CAVITIES IDENTIFICATION	FEMALE TERMINAL 0.635	(0,35 to 0,44 mm2)	(0,5 mm2)	(0,35 to 0,44 mm2)	(0,5 mm2)
	A1 to F1	0643221019	0643221039	0643221229	0643221239
	A2 to F2		(0,75 mm2)		(0,75 mm2)
	A3 to F3		0643221029		0643221219
F4	A4 to F4				
FEMALE TERMINAL 1.50	G1 to G4	(1 mm2)	(>1 to 2 mm2)	(1 mm2)	(>1 to 2 mm2)
	H1 to H4	0643231029	0643231039	0643231319	0643231219

SKC: CS CHARACTERISTICS

SKC

SKC

SKC

SKC

SKC

SKC

QUANTITY PER INDIVIDUAL SHEET

SKC: 9

UPDATED DRAWING
EC NO:G2008-0367
DRWN:TBADAROUX 2008/04/21
CH:KO:PORANCLAUDE 2008/04/21
APPR:CEBOUCHAN 2008/04/21

DESCRIPTION

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± ±

3 PLACES ± ±

2 PLACES ± 0.1 ±

1 PLACE ± 0.1 ±

ANGULAR ± 2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY
TBADAROUX

DATE
2007/07/16

CHECKED BY
PGRANDCLAUDE

DATE
2007/07/16

APPROVED BY
CBOUCHAN

DATE
2007/07/16

MATERIAL NO.
SEE SHEET 1

SIZE
A1

SCALE
2:1

DESIGN UNITS
METRIC

FIRST ANGLE
PROJECTION

CMC CONNECTOR T2 32 WAY
MATT SEAL VERSION

MOLEX INCORPORATED

DOCUMENT NO.
SD-98993-001

SHEET NO.
2 OF 2