

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0643203315](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 48 Circuits, Right Wire Output, Green Coding, Mat Sealed

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

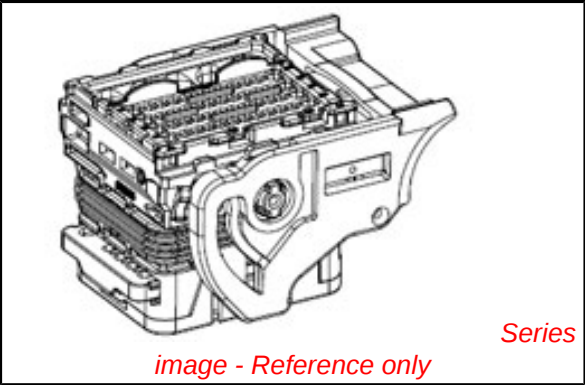
General
Product Family Crimp Housings
Series [64320](#)
Comments * Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C . Current max = 6.0A for 0.635mm Terminal (0.75mm² wire) and 12.0A for 1.5mm Terminal (2.0mm² wire) *
More Detailed Tech Information Sealed, high-density, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
Overview [cmc_connectors](#)
Product Name CMC

Physical
Circuits (maximum) 48
Circuits Detail 8 x 1.5mm & 40 x 0.635mm terminals
Color - Resin Green
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-64320-001
[Product Specification](#) PS-64319-001
[Sales Drawing](#) SD-64320-001, SD-98993-008



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



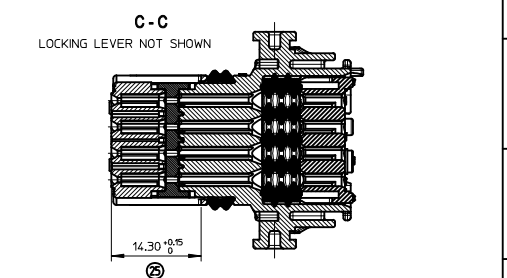
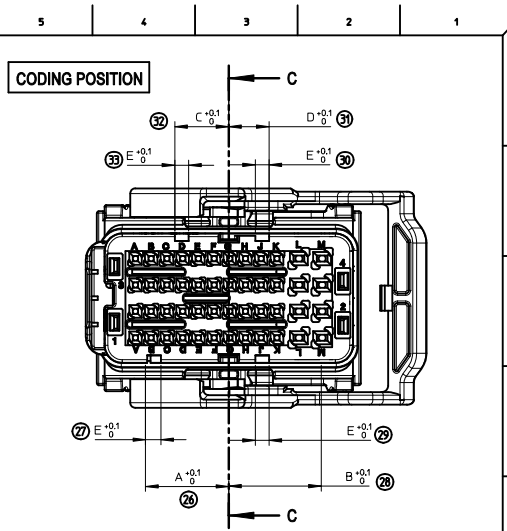
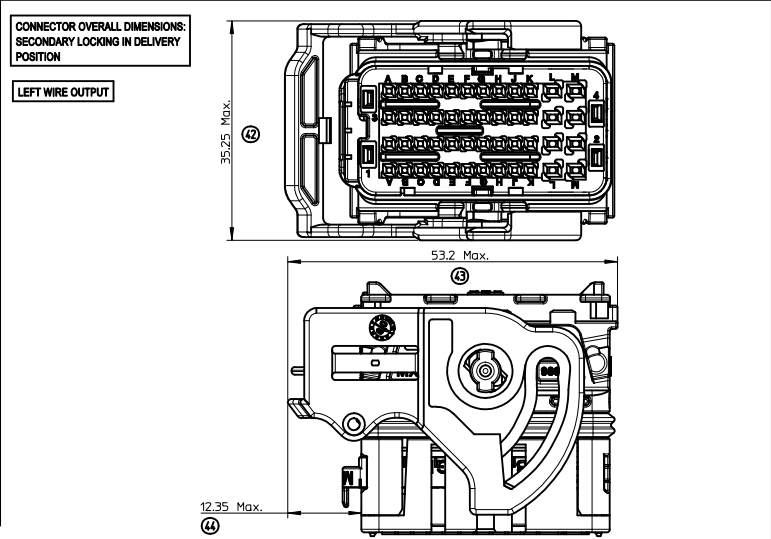
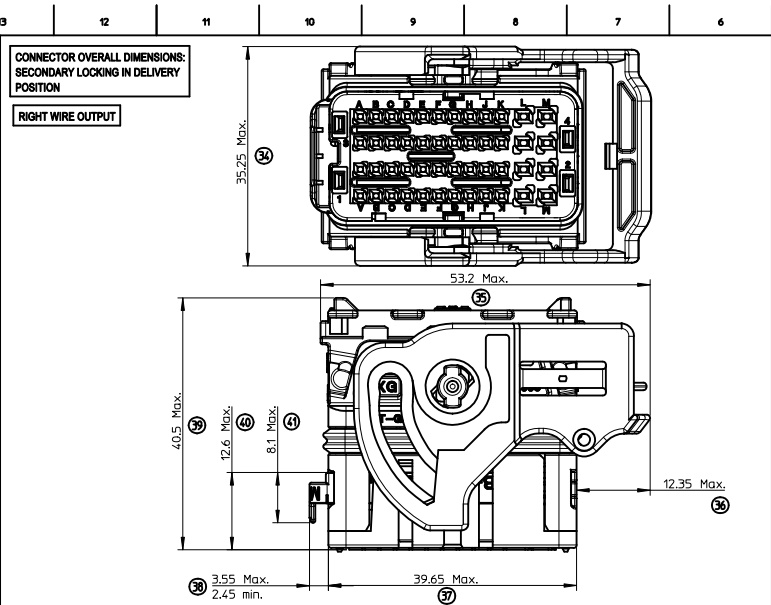
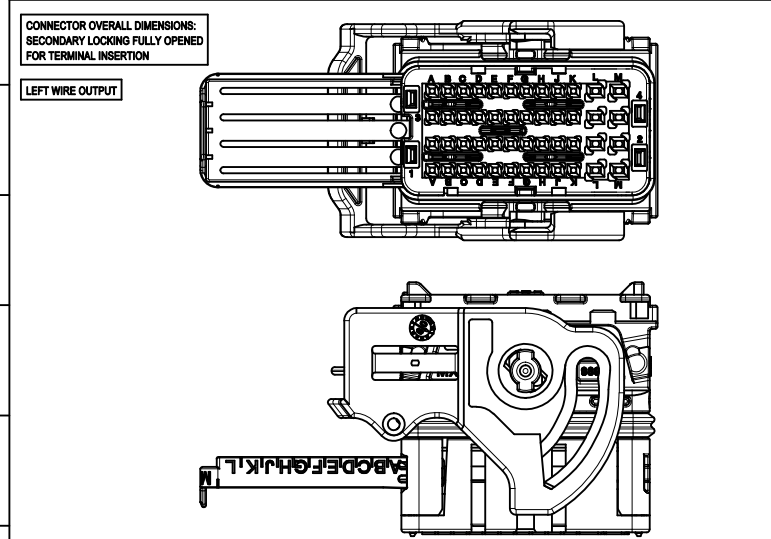
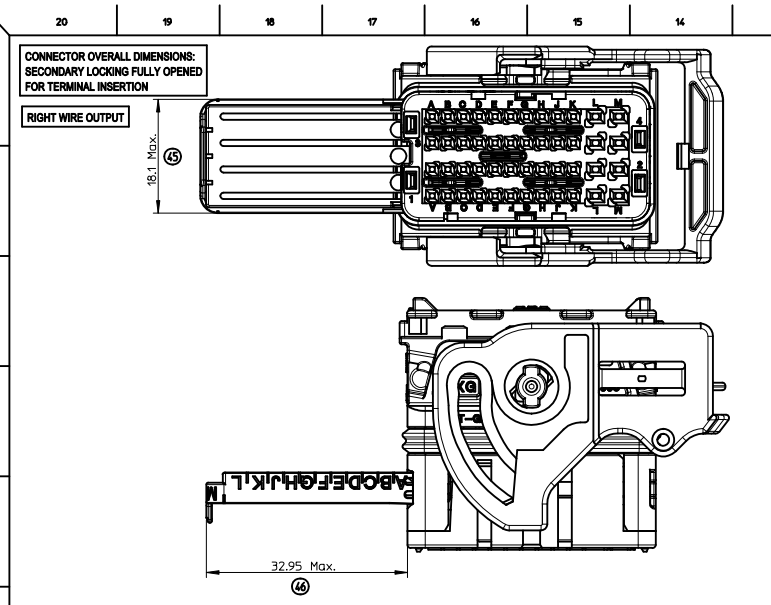
Need more information on product environmental compliance?

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
[64320Series](#)

Use With
CMC CP Female Terminal [64322](#) , [64323](#).
Circuit Way Plugs [643251010](#) , [643251023](#).
CMC Wire Cap [643201301](#).



COLOR	CODING	A	B	C	D	E
BLACK	1	13	6.4	8.6	6.4	2.2
GREY	2	10.8	8.6	13	8.6	2.2
BROWN	3	8.6	10.8	13	13	2.2
GREEN	4	10.8	13	6.4	6.4	2.2

TERMINALS USED					
CAVITY N°	FEMALE TERMINALS (Section mm2)	PLATING	MOLEX PIN*	min / MAX WIRE INSULATION DIAMETER (mm)	
A1 to K1 A2 to K2 A3 to K3 A4 to K4	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		
L1 to L4 M1 to M4	CP 0.6 0.75mm2	Tin plated	0643221029	Ø160 min / Ø190 Max	
		Gold plated	0643221219		
	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		

UPDATED DRAWING
EC NO: 2009/06/02
CHYKOC BOUCHAN
APPR: D

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± 0.1 ± 0.004
3 PLACES ± 0.1 ± 0.004
2 PLACES ± 0.1 ± 0.004
1 PLACE ± 0.1 ± 0.004
ANGULAR ± 2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

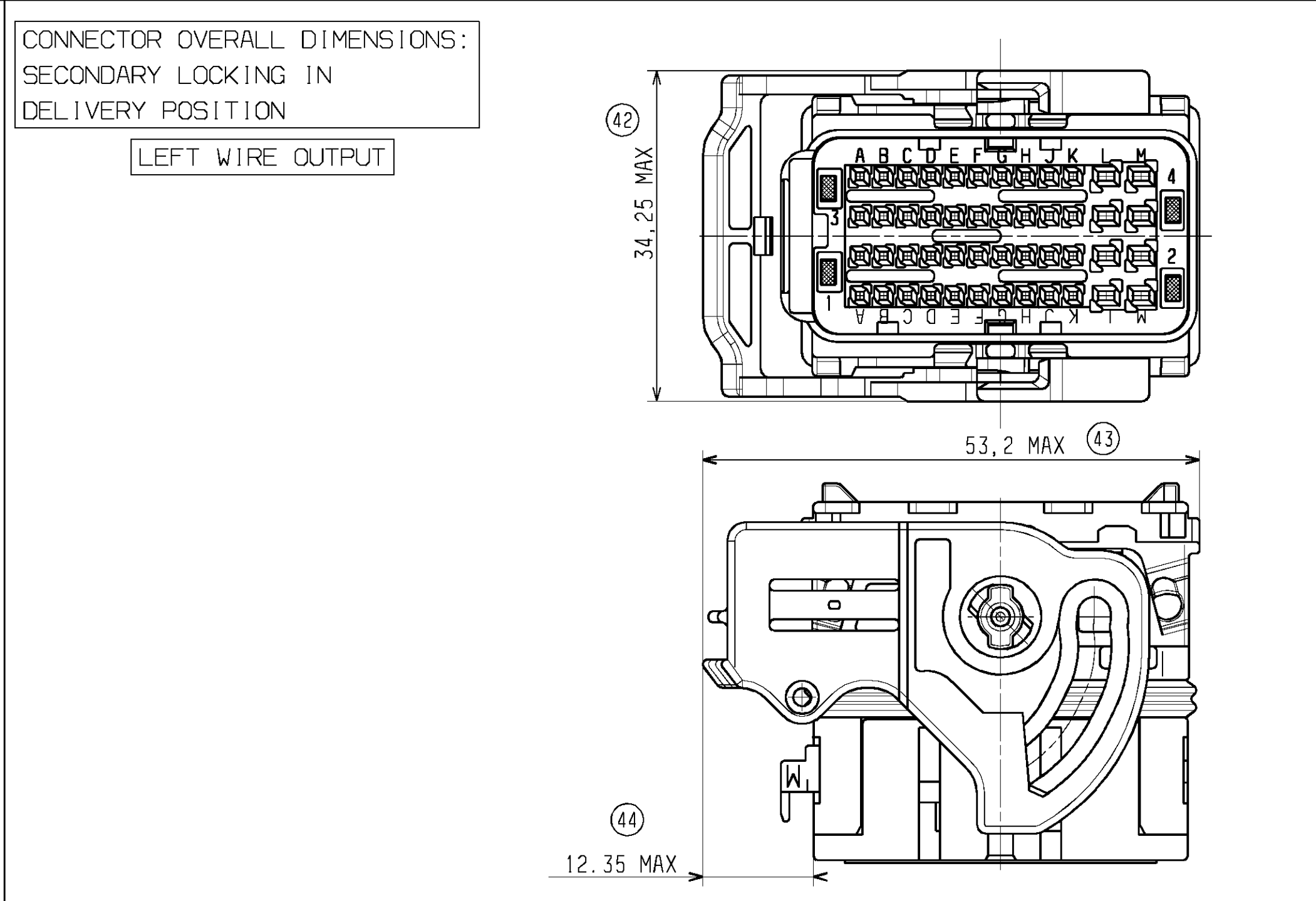
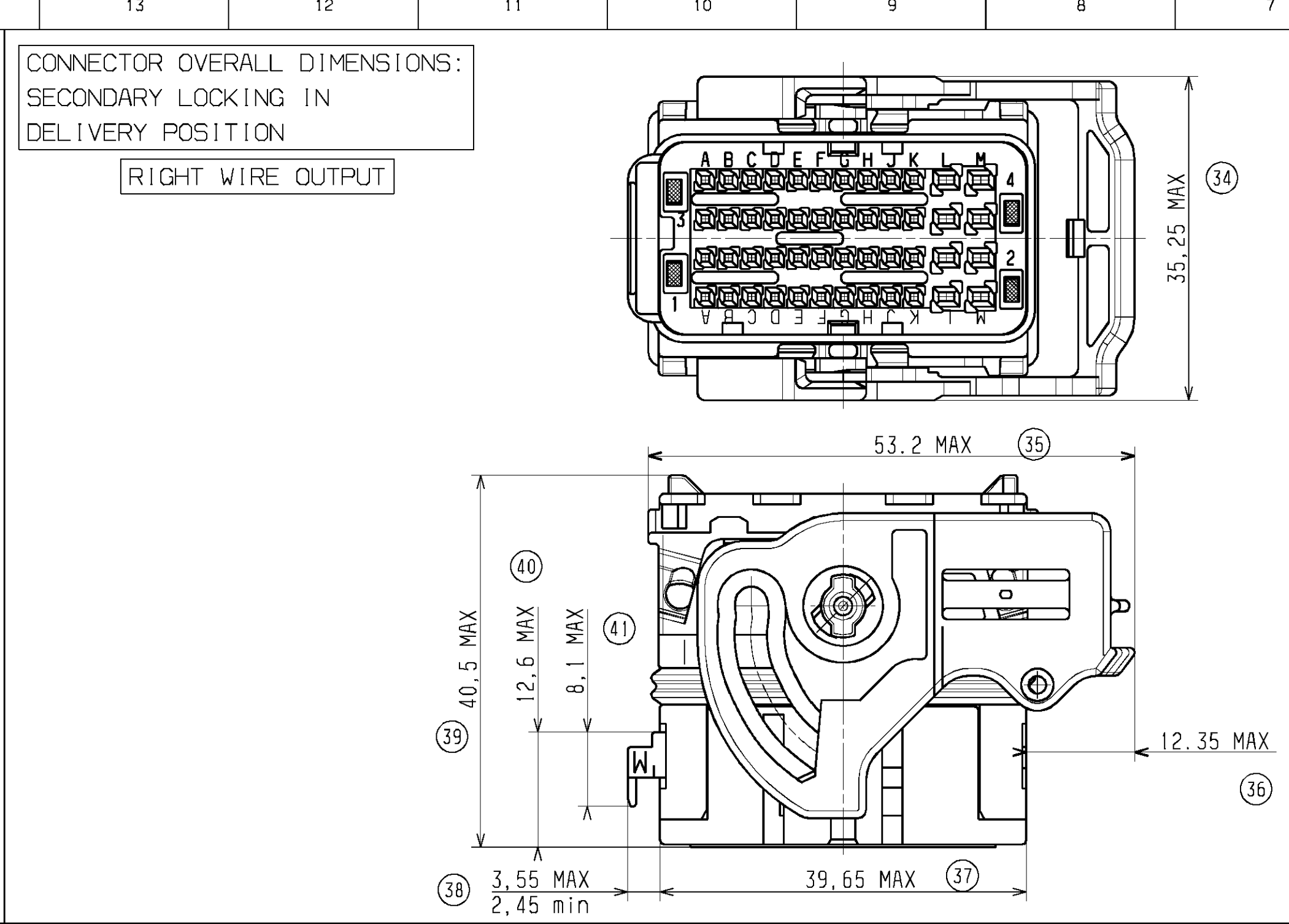
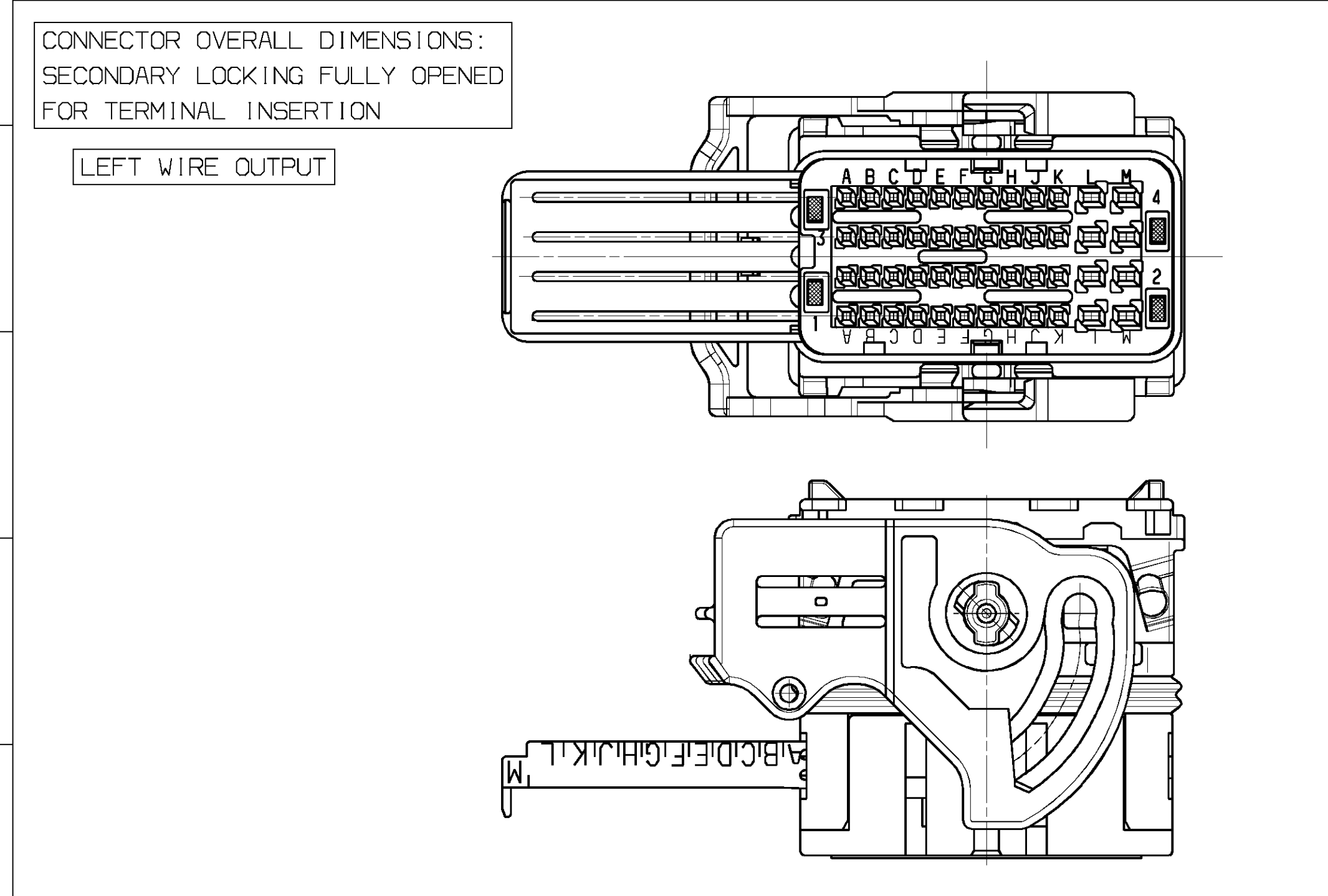
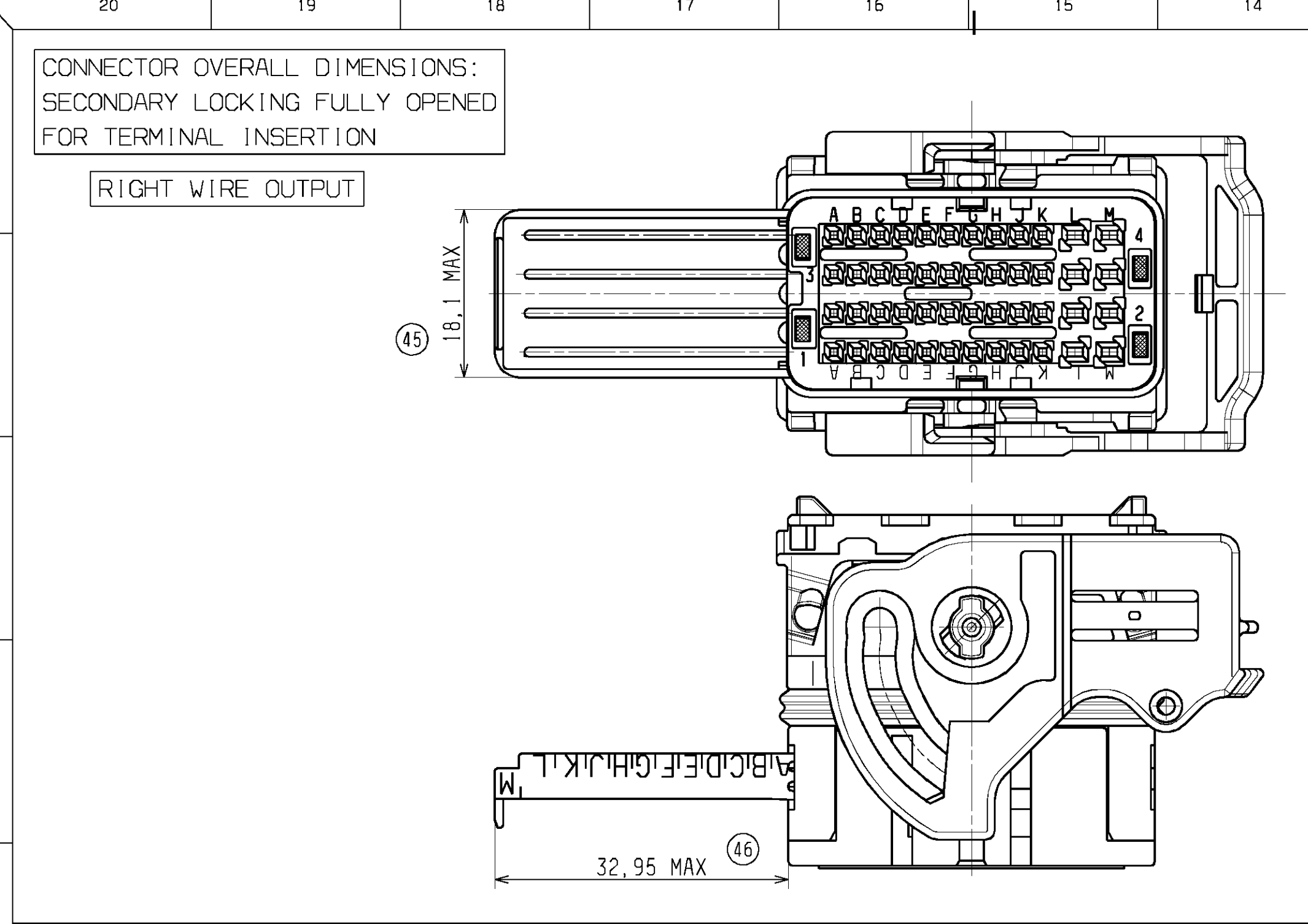
DIMENSION STYLE
2.5:1
MM ONLY
DRAWN BY: T. BADAROUX
CHECKED BY: P. GRANDCLAUD
APPROVED BY: C. BOUCHAN
DATE: 2007/07/16
MATERIAL NO.
DOCUMENT NO.

SCALE
2.5:1
DESIGN UNITS
METRIC
FIRST ANGLE
PROJECTION

C MC CONNECTOR 48 WAY
MAT SEAL VERSION

MOLEX INCORPORATED
SD-64320-001
SHEET NO.
2 OF 2

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



CODING POSITION

C-C
LOCKING LEVER NOT SHOWN

COLOR	KEYING	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
BLACK	1	13	6,4	8,6	6,4	2,2
GREY	2	10,8	8,6	13	8,6	2,2
BROWN	3	8,6	10,8	13	13	2,2
GREEN	4	10,8	13	6,4	6,4	2,2
BLUE	5	6,4	10,8	8,6	8,6	2,2
YELLOW	6	13	10,8	6,4	10,8	2,2

tb_frame_A1_P_AM_F
Prev. D 2004/06/28

TERMINALS USED		MOLEX PART NUMBER			
		TIN PLATED TERMINAL		GOLD PLATED TERMINAL 1.27µm min	
CAVITIES IDENTIFICATION	FEMALE TERMINAL 0.635 A1 to F1 A2 to F2 A3 to F3 A4 to F4	(0,35 to 0,44 mm2) 0643221019	(0,5 mm2) 0643221039	(0,35 to 0,44 mm2) 0643221229	(0,5 mm2) 0643221239
			(0,75 mm2) 0643221029		(0,75 mm2) 0643221219
	FEMALE TERMINAL 1.50 G1 to G4 H1 to H4	(1 mm2) 0643231029	(>1 to 2 mm2) 0643231039	(1 mm2) 0643231319	(>1 to 2 mm2) 0643231219

UPDATED DRAWING EC NO:G2008-0367 DRWN:TBADAROUX 2008/04/21 CH:KO:PORANDUCLAUDE 2008/04/21 APPR:CEBOUCHAN 2008/04/21	DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		
			mm	INCH	
			4 PLACES	±	±
			3 PLACES	±	±
			2 PLACES	± 0.1	±
			1 PLACE	± 0.1	±
			ANGULAR		± 2 °
C	REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

17	13	11	10	8	8	7	6

DRAW TB	SE
CHECK	SIZE
PGRAN	A1
APPRO	
CBOUT	
MATER	

SKC: CS CHARACTERISTICS

- ✖ DENOTES S.P.C DIMENSIONS
- ⊗ DENOTES CRITICAL DIMENSIONS
- DENOTES FUNCTIONAL DIMENSIONS

QUANTITY PER INDIVIDUAL SHEET

0 0 0 SKC: 9

DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION
DRAWN BY TBADAROUX	DATE 2007/07/16	TITLE CMC CONNECTOR 48 WAY MATT SEAL VERSION	
CHECKED BY PGRANDCLAUDE	DATE 2007/07/16	MOLEX INCORPORATED	
APPROVED BY CBOUCHAN	DATE 2007/07/16	MATERIAL NO. SEE SHEET 1	
SIZE A1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

DOCUMENT NO.
SD-98993-008

SHEET NO.
2 OF 2