

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0643201319](#)
Status: **Active**
Overview: [cmc_connectors](#)
Description: .635mm (.025"), 1.50mm (.059"), CMC Receptacle, 48 Circuits, Left Wire Output, Brown 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 Brown
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

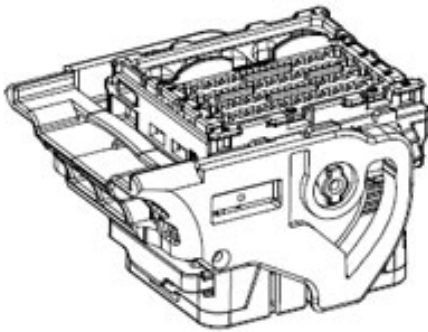


image - Reference only

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

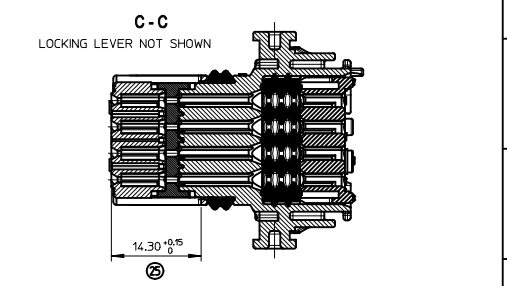
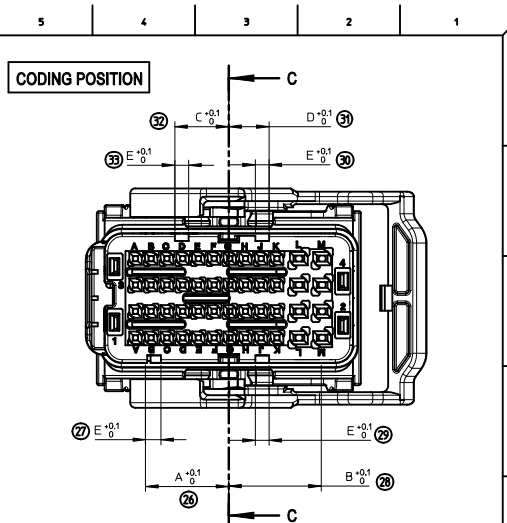
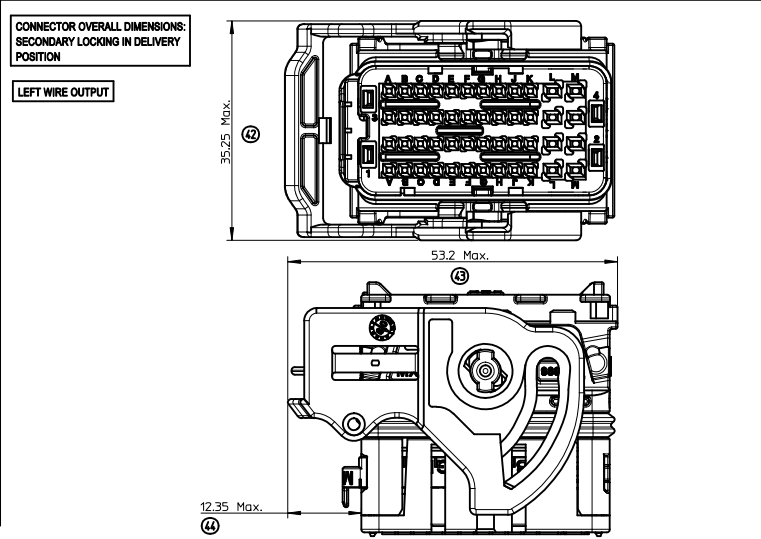
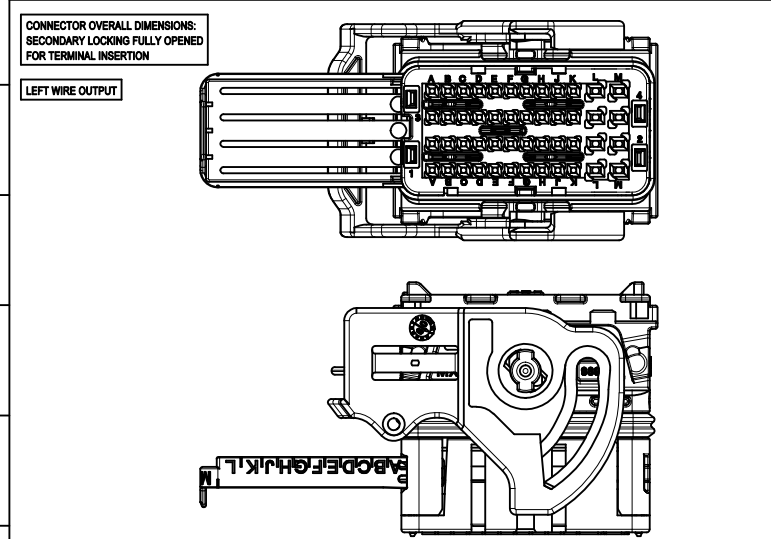
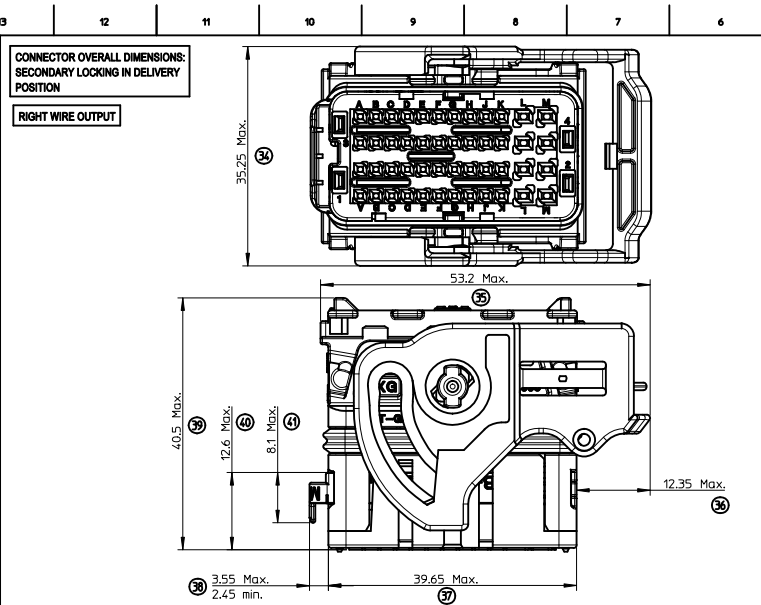
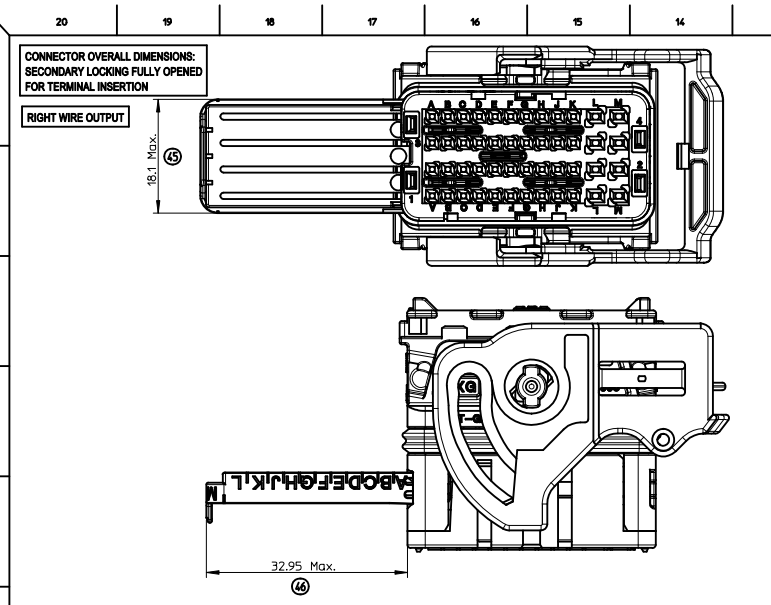
[64320Series](#)

Mates With

[36638](#) CMC Header

Use With

CMC CP Female Terminal [64322](#) , [64323](#).
Circuit Way Plugs [643251010](#) , [643251023](#).
CMC Wire Cap [643201301](#). CMC 48 Circuit Header [36638](#)



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

SCALE
2.5:1

DESIGN UNITS
METRIC

FIRST ANGLE PROJECTION

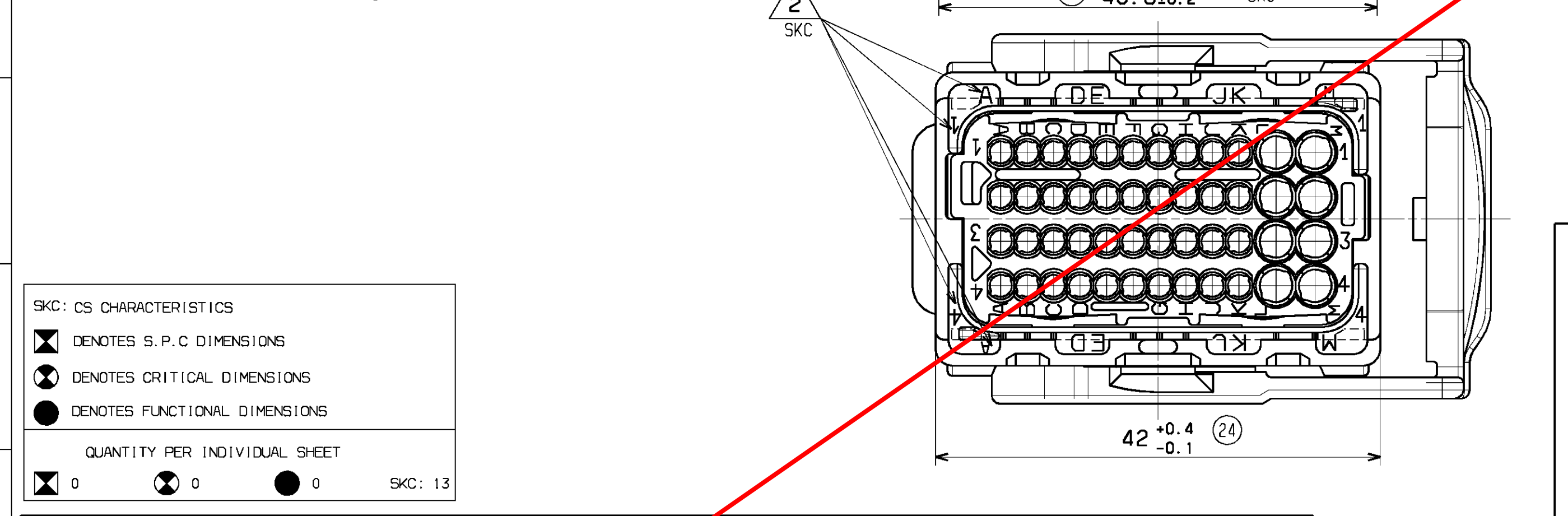
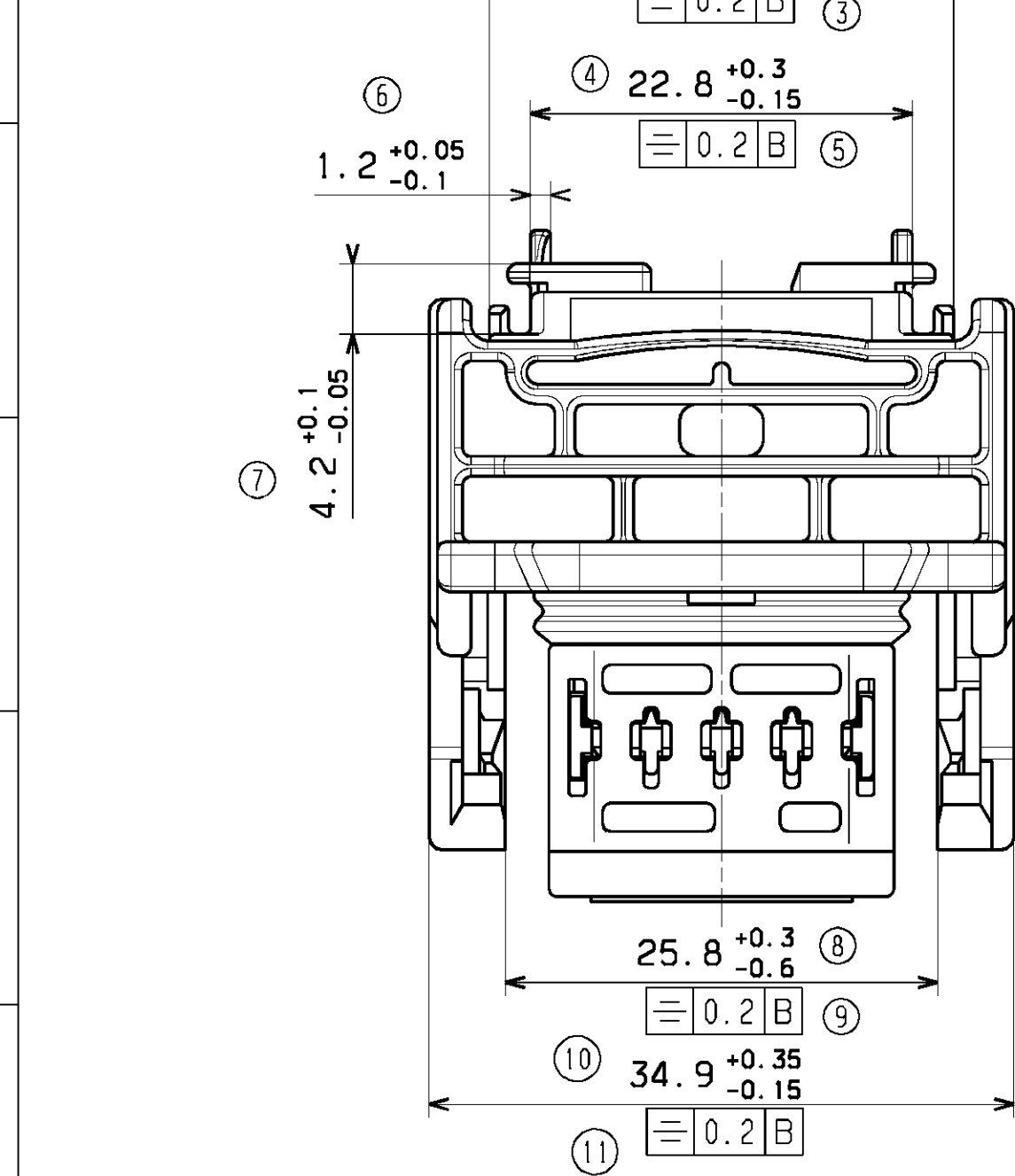
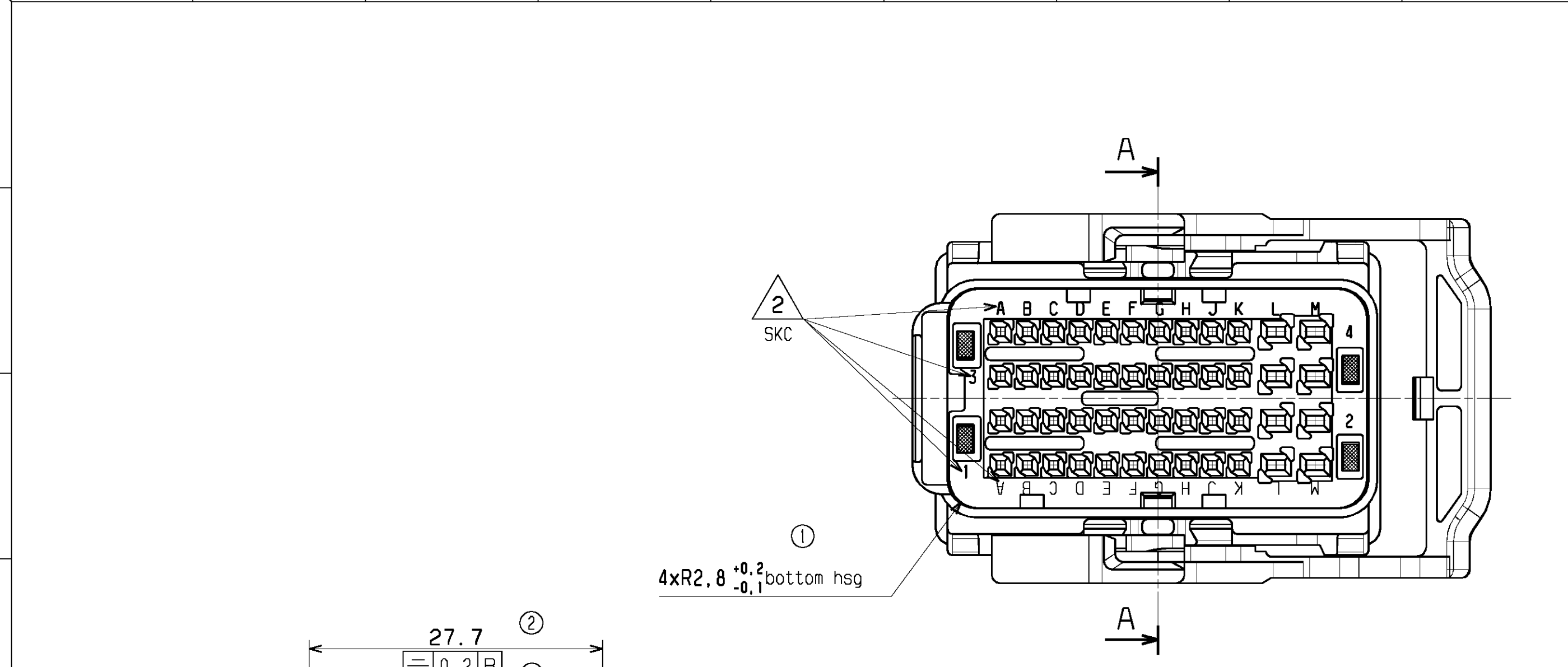
C MC CONNECTOR 48 WAY
MAT SEAL VERSION

MOLEX INCORPORATED

MATERIAL NO.
SD-64320-001

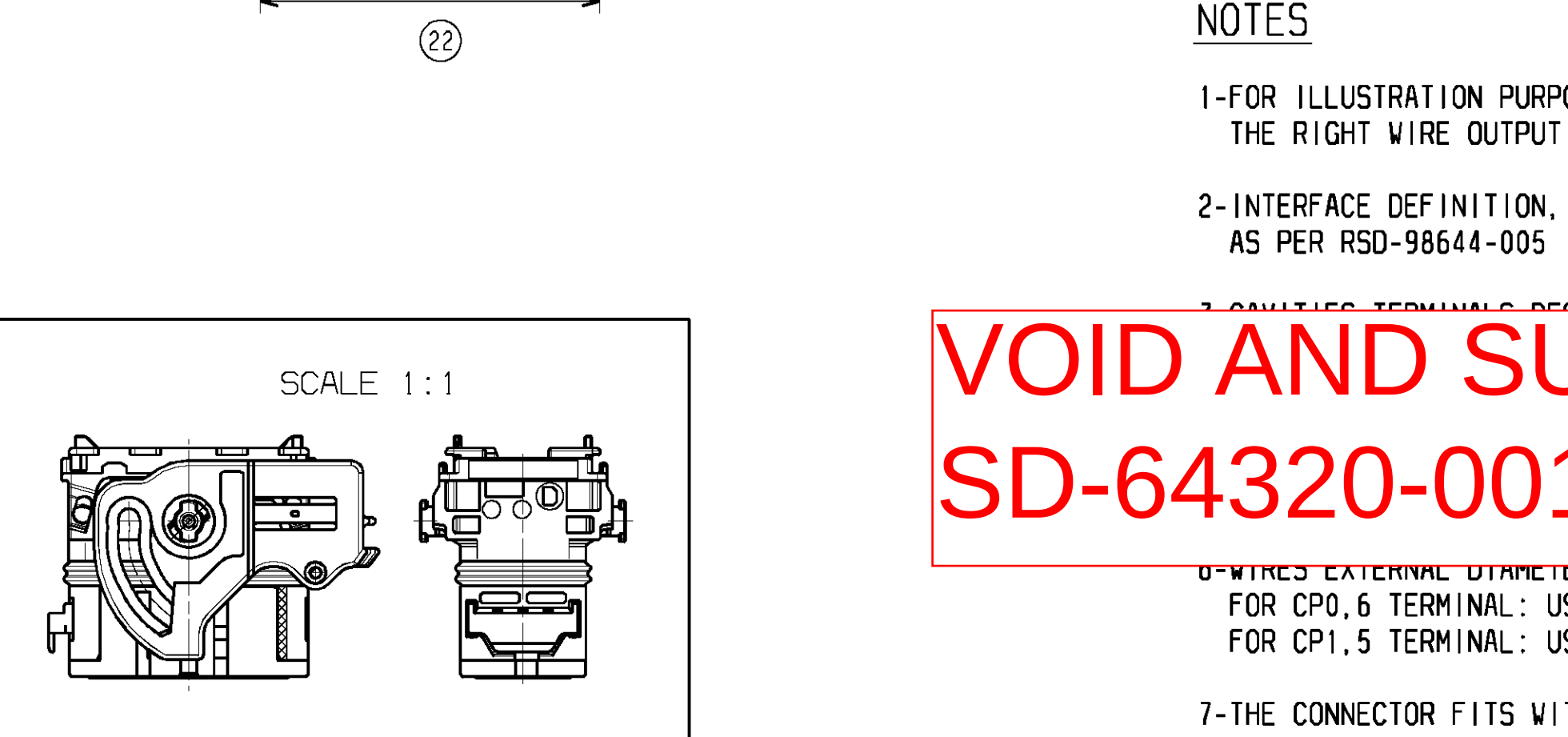
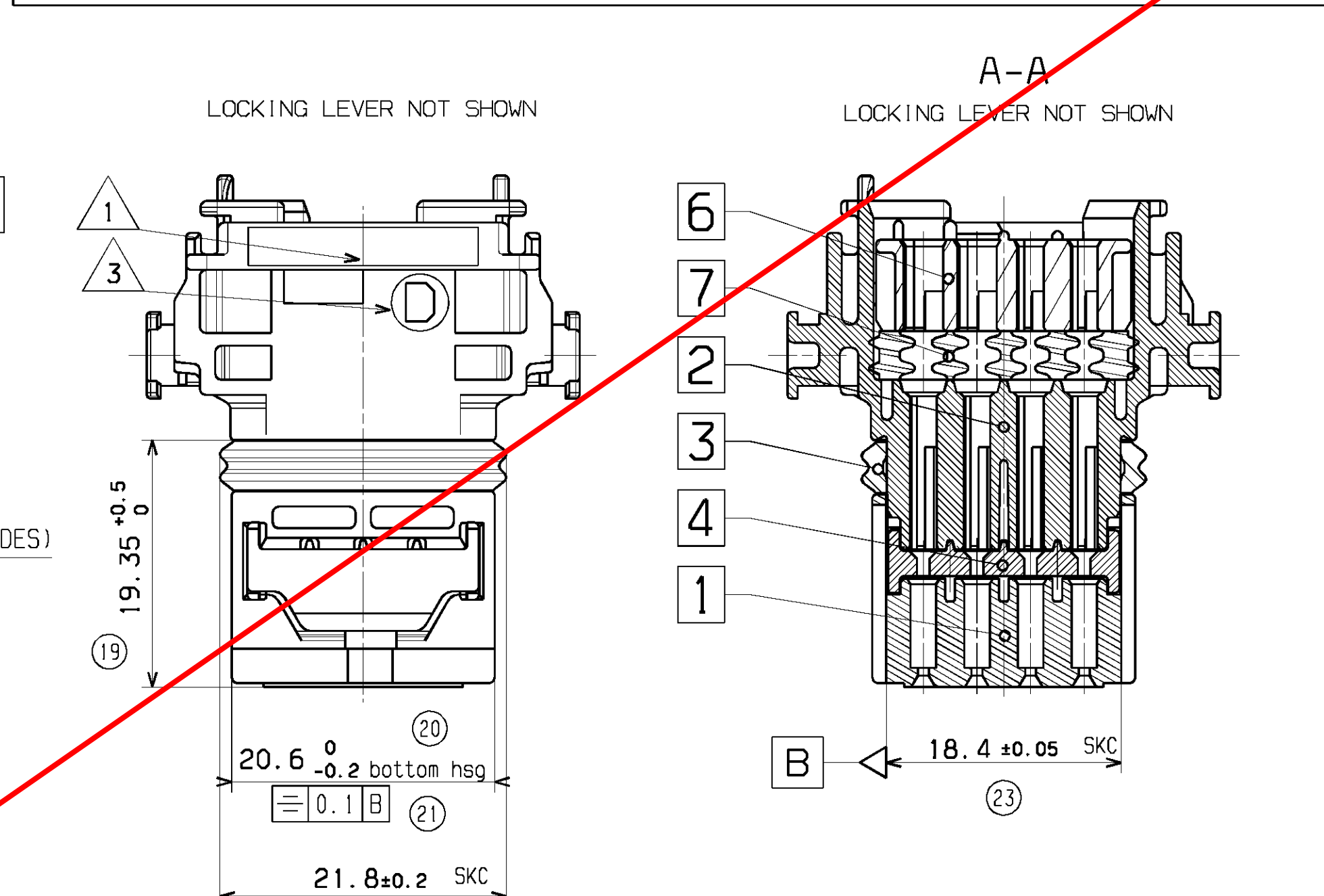
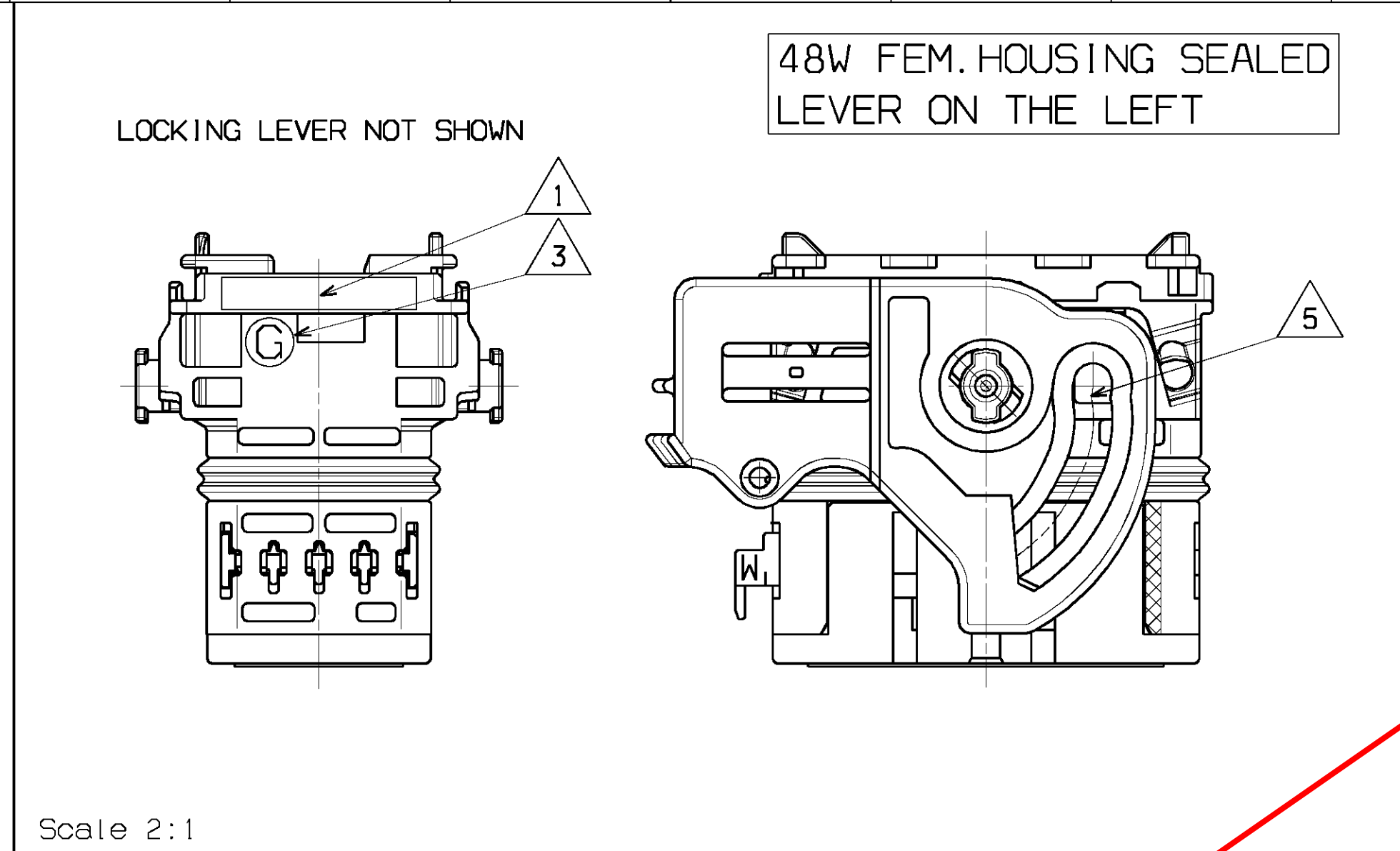
DOCUMENT NO.
2 OF 2

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



SKC: CS CHARACTERISTICS			
	DENOTES S.P.C DIMENSIONS		DENOTES CRITICAL DIMENSIONS
	DENOTES FUNCTIONAL DIMENSIONS		
QUANTITY PER INDIVIDUAL SHEET			
	0		0
	0	SKC: 13	

0989930396	7	MATT SEAL	SILICONE SKC	BLUE
0989930356	6	BACK GRID 48 WAY	PBT-GF20 SKC	BLUE
0989930341	5	LOCKING LEVER SIZE 3	PBT-GF30 SKC	BLACK
0989930338	4	SECONDARY LOCK	PBT-GF20 SKC	GREY
0986560002	3	PERIPHERAL SEAL SIZE 3	SILICONE SKC	RED
0989930311	2	BACK PART	PBT-GF20 SKC	BLACK
0989930321 0989930328 0989930325 0989930329	1	FRONT PART	PBT-GF20 SKC	COLOR ASSOCIATED TO KEYING
MATERIAL NUMBER	MARK	DESIGNATION	MATERIAL	COLOR



MARKINGS	
abled part tracability	ay + year
nal cavities identification	
position indicator:	
VISIBLE=	with "LEVER ON THE RIGHT"
VISIBLE=	t with "LEVER ON THE LEFT"
er identification	
ial identification	

UPDATED DRAWING		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)			
EC NO: G2008-0357	DRWN: TBADAROUX 2008/04/21	CH'KD: PGRANDCLAUDE 2008/04/21	APPR: CBOUCHAN 2008/04/21		mm	INCH	DRAWN TBADAROUX
C	REV	/	/	4 PLACES	±	±	CHECKED
				3 PLACES	±	±	PGRANDCLAUDE
				2 PLACES	± 0.1	±	APPROVED CBOUCHAN
				1 PLACE	± 0.1	±	MATERIAL
				ANGULAR ± 2 °		SIZE A1	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

LEVER ON THE LEFT	
MATERIAL NUMBER	COLOR
0643201311	BLACK
0643201318	GREY
0643201319	BROWN
0643201315	GREEN
	BLUE
	YELLOW

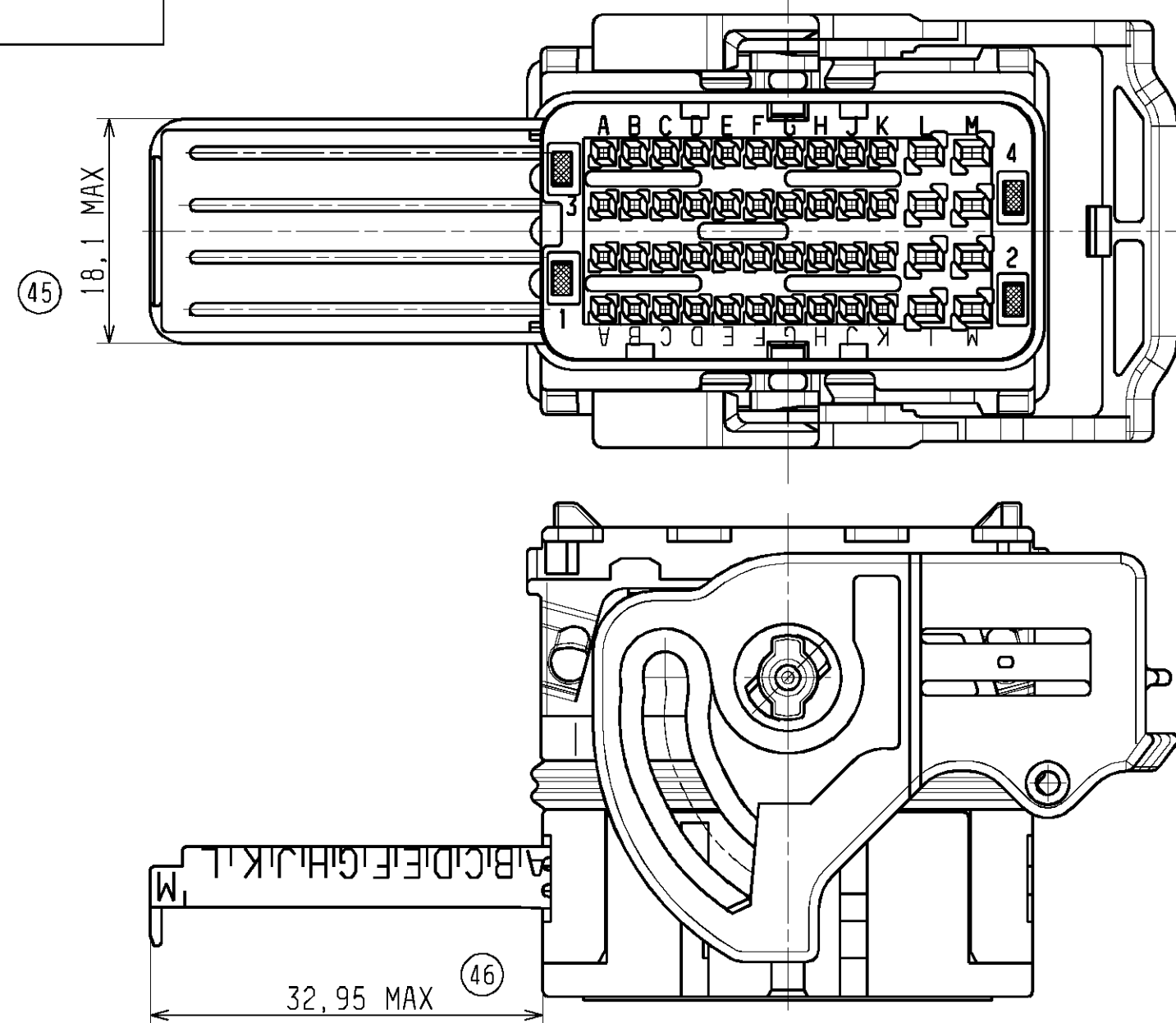
LEVER ON THE RIGHT	
MATERIAL NUMBER	COLOR
0643203311	BLACK
0643203318	GREY
0643203319	BROWN
0643203315	GREEN
	BLUE
	YELLOW

NOTES

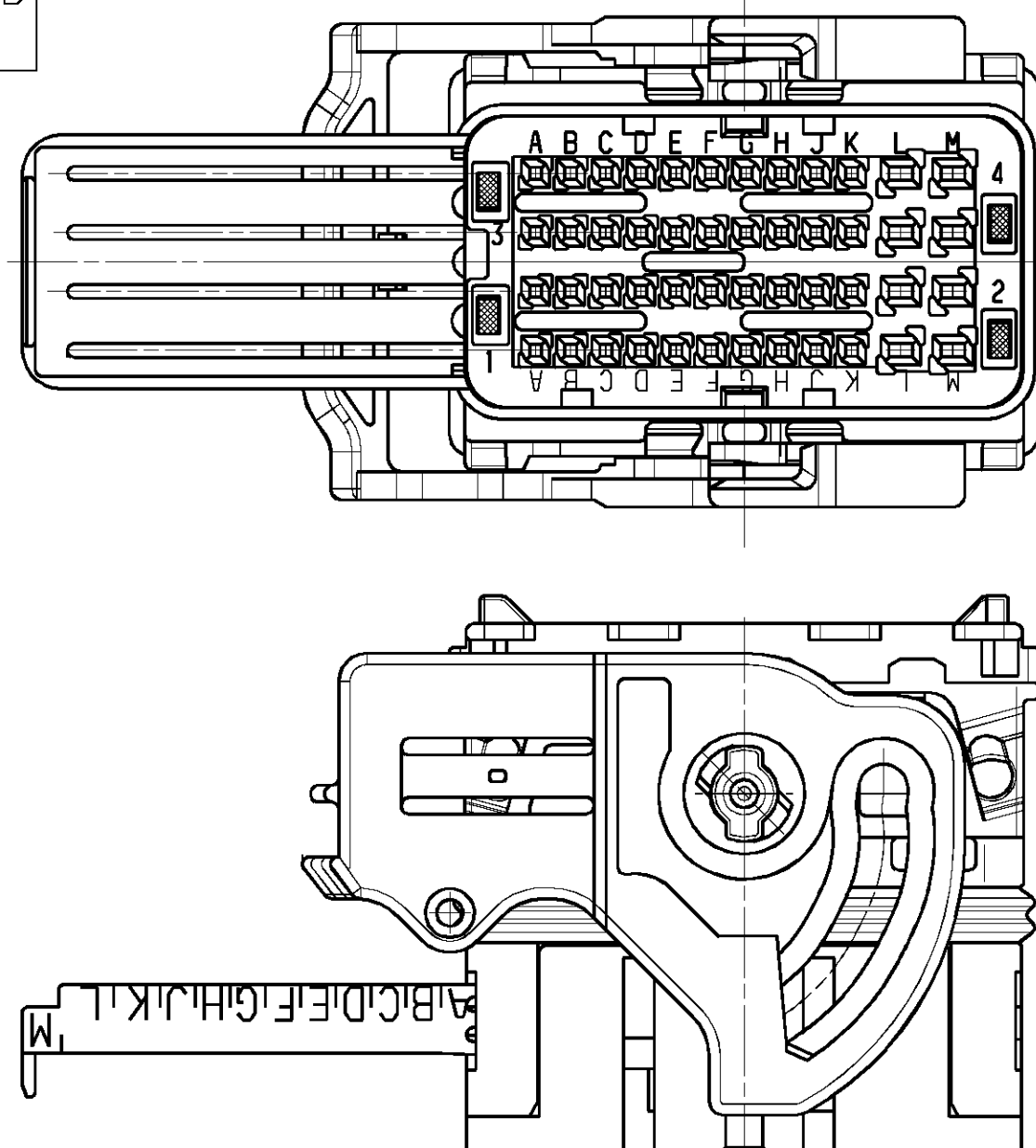
- 1-FOR ILLUSTRATION PURPOSE THE FEMALE HOUSING SHOWN IS THE RIGHT WIRE OUTPUT VERSION CODING 1
- 2-INTERFACE DEFINITION, OVERALL DIMENSION AND LOCATION ON HEADER AS PER RSD-98644-005
- 3-CAVITIES TERMINALS REGION AS PER
- 4-WIRES EXTERNAL DIAMETER USED:
FOR CP0,6 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1,25MM MIN AND Ø1,90MM MAX
FOR CP1,5 TERMINAL: USE WIRES WITH AN EXTERNAL DIAMETER BETWEEN Ø1,80MM MIN AND Ø2,80MM MAX
- 7-THE CONNECTOR FITS WITH WIRE CAP T3 (48WAY) MOLEX P/N 0643201301
- 8-BLIND PLUG FOR 0,6 AND 1,5 CAVITIES (MOLEX P/N 0643251010 AND 0643251023) MUST BE USED ON THIS PART
- 9-DELIVERED PRODUCT WEIGHT: 33,8 g

VOID AND SUPERSEDED BY
SD-64320-001 rev C

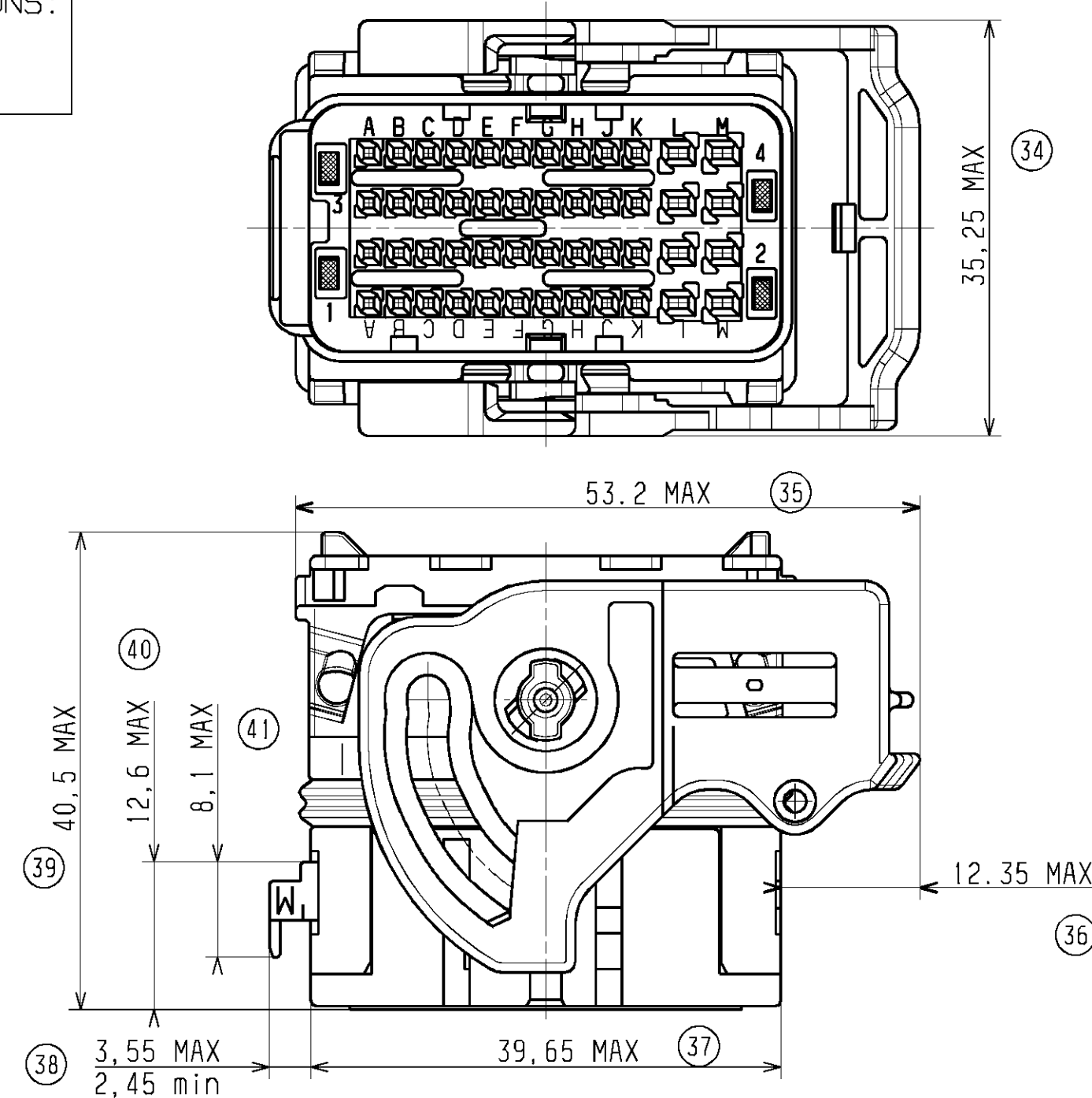
RIGHT WIRE OUTPUT



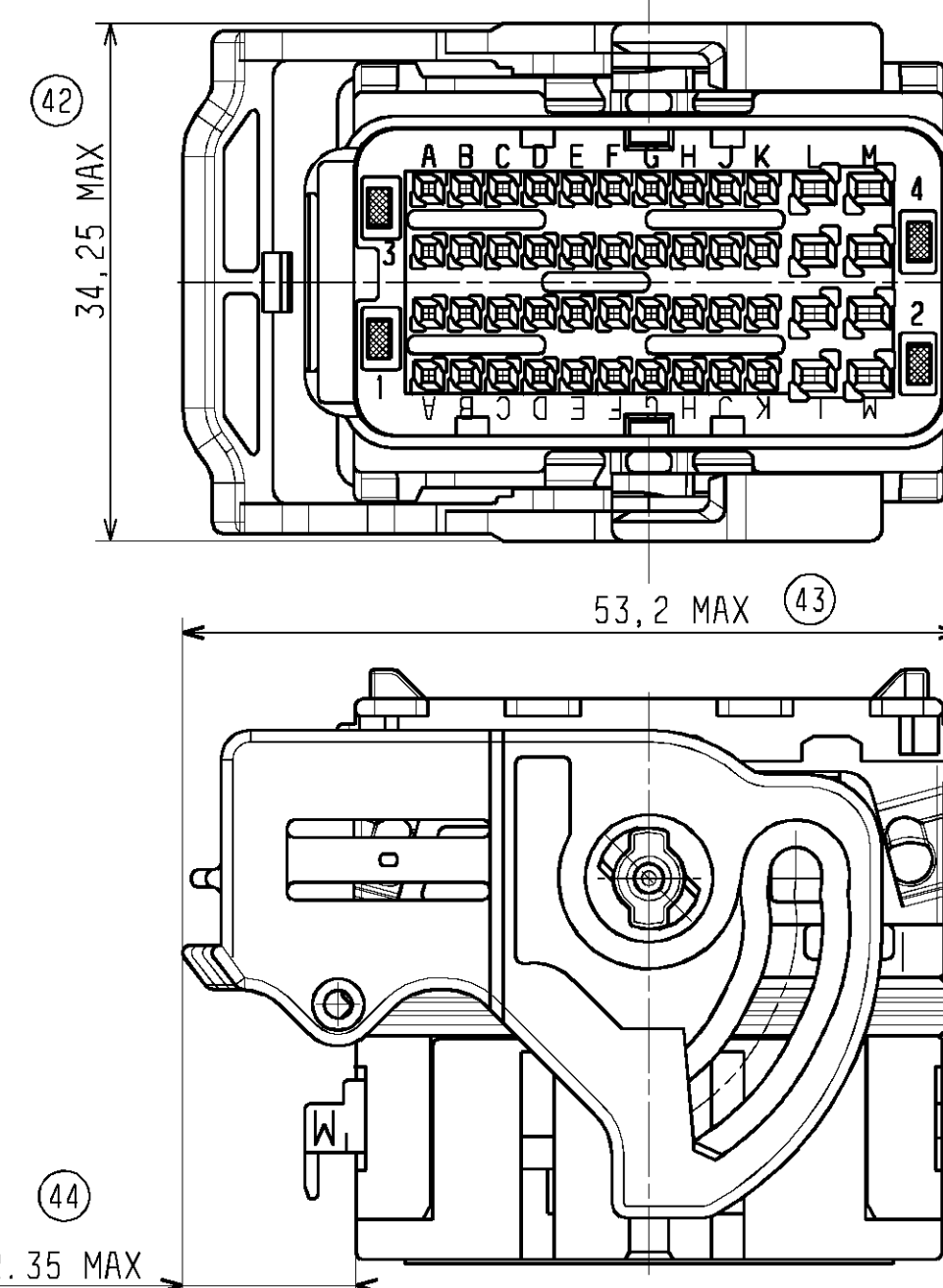
LEFT WIRE OUTPUT



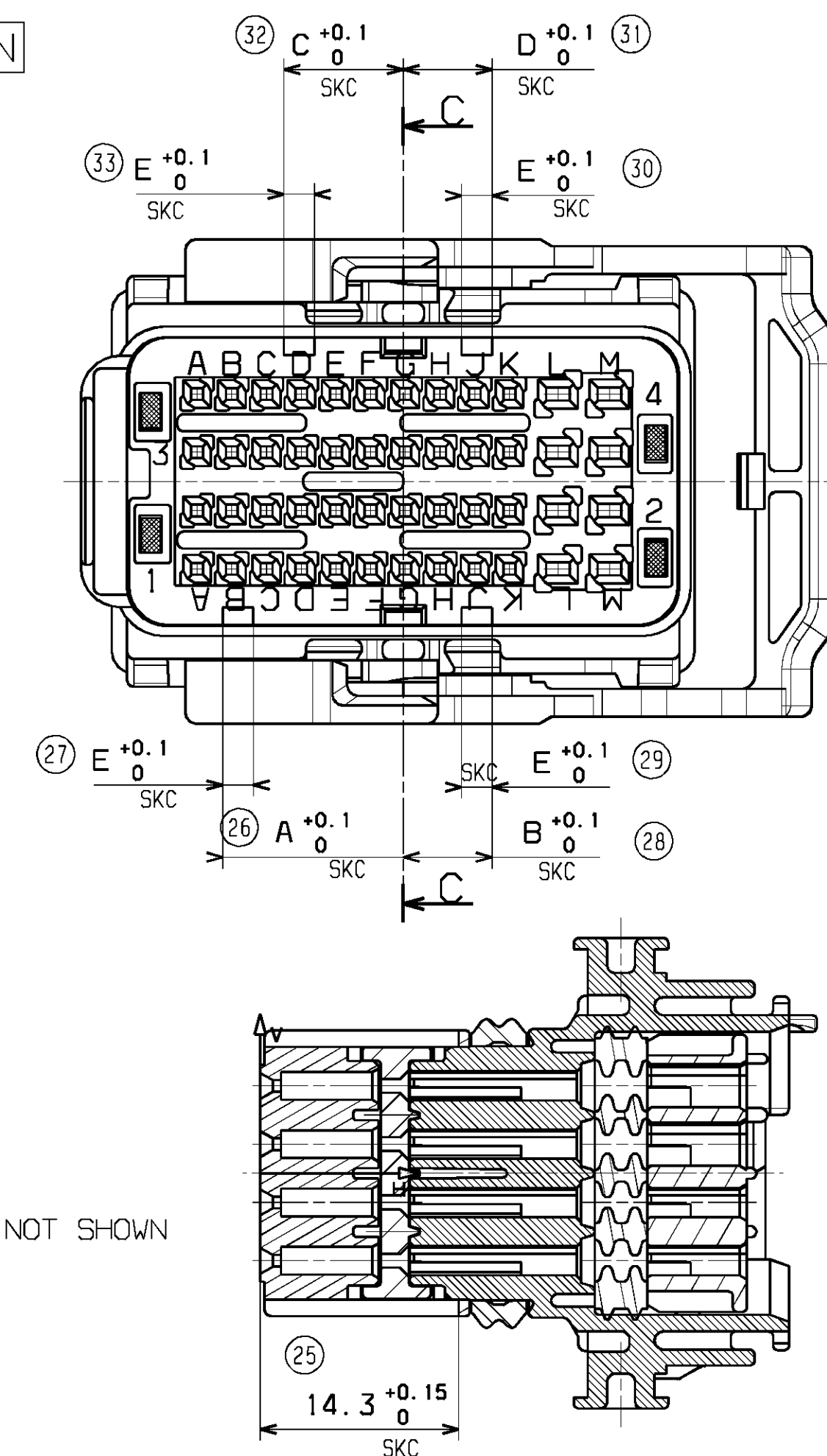
RIGHT WIRE OUTPUT



LEFT WIRE OUTPUT



CODING POSITION



COLOR	KEYING	A ₀ ^{+0,1}	B ₀ ^{+0,1}	C ₀ ^{+0,1}	D ₀ ^{+0,1}	E ₀ ^{+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

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

SKC: CS CHARACTERISTICS

 DENOTES S.P.C DIMENSIONS

 DENOTES CRITICAL DIMENSIONS

 DENOTES FUNCTIONAL DIMENSIONS

QUANTITY PER INDIVIDUAL SHEET

 0  0  0 SKC: 9

UPDATED DRAWING EC NO:G2008-0367 DRWN:TBADAROUX 2008/04/21 CHK:K0:PGRANDCLAUDE 2008/04/21 APPR:CBOUCHAN 2008/04/21	DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 FIRST ANGLE PROJECTION	
				mm	INCH	DRAWN BY DATE TBADAROUX 2007/07/16		TITLE CMC CONNECTOR 48 WAY MATT SEAL VERSION		
			4 PLACES	±	±	CHECKED BY DATE PGRANDCLAUDE 2007/07/16				
			3 PLACES	±	±	APPROVED BY DATE CBOUCHAN 2007/07/16		 MOLEX INCORPORATED		
			2 PLACES	± 0.1	±					
1 PLACE	± 0.1	±	MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-98993-008	SHEET NO. 2 OF 2				
C	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				