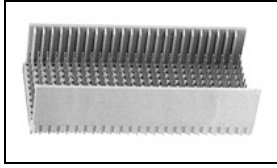


5646357-1 Product Details



5646357-1

TE Internal Number: 5646357-1



2mm Hard Metric PCB Mount Connectors (Z-PACK 2mm HM)

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Connector
- Connector Assembly
- Connector Style = Plug
- Type = Type E
- Interface Type = 2mm HM

Documentation & Additional Information

Product Drawings:

- [MALE ASSEMBLY, Z-PACK 2mm HM, TYPE E \(PDF, English\)](#)

Catalog Pages/Data Sheets:

- None Available

Product Specifications:

- [Connector, Z-PACK, 8 Row, 2mm HM \(PDF, English\)](#)

Application Specifications:

- [Z-PACK 2mm HM Interconnection System for Board-to-Bo... \(PDF, English\)](#)

Instruction Sheets:

- None Available

CAD Files: (CAD Format & Compression Information)

- [2D Drawing \(DXF, Version B\)](#)
- [3D Model \(IGES, Version B\)](#)
- [3D Model \(STEP, Version B\)](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)
- [Mating Products \(1\)](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Product Type = Connector
- Connector Type = Connector Assembly
- [PCB Mounting Orientation](#) = Vertical

Mechanical Attachment:

- [Board Mount](#) = Fixed Board
- Front Mating Level = Level 1

Electrical Characteristics:

- [Shielded](#) = No

Termination Features:

- [Interface Type](#) = 2mm HM
- Termination End Plating = Tin over Nickel

Dimensions:

- [Module Length \(mm \[in\]\)](#) = 50.00 [1.968]

Body Features:

- Type = Type E

Contact Features:

- Contact Configuration = ACTION PIN Post, Signal
- [Feedthrough Post Length \(mm \[in\]\)](#) = 3.70 [0.145]
- CompactPCI = No
- [Contact Plating, Mating Area, Material](#) = Performance-Based
- [Grounding Contact](#) = Without
- Contact Style = Short Tail
- Contact Base Material = Phosphor Bronze

Housing Features:

- Connector Style = Plug
- [Mating Alignment](#) = With
- [Mating Alignment Type](#) = Multi-Purpose Center
- Housing Color = Gray
- Housing Material = Polyester GF
- UL Flammability Rating = UL 94V-0

Configuration Features:

- [Number of Rows](#) = 8+2
- [Number of Positions](#) = 250
- [Crosstalk Version](#) = Standard
- Rows Loaded = Z, F, E, D, C, B, H, A, I

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Packaging Features:

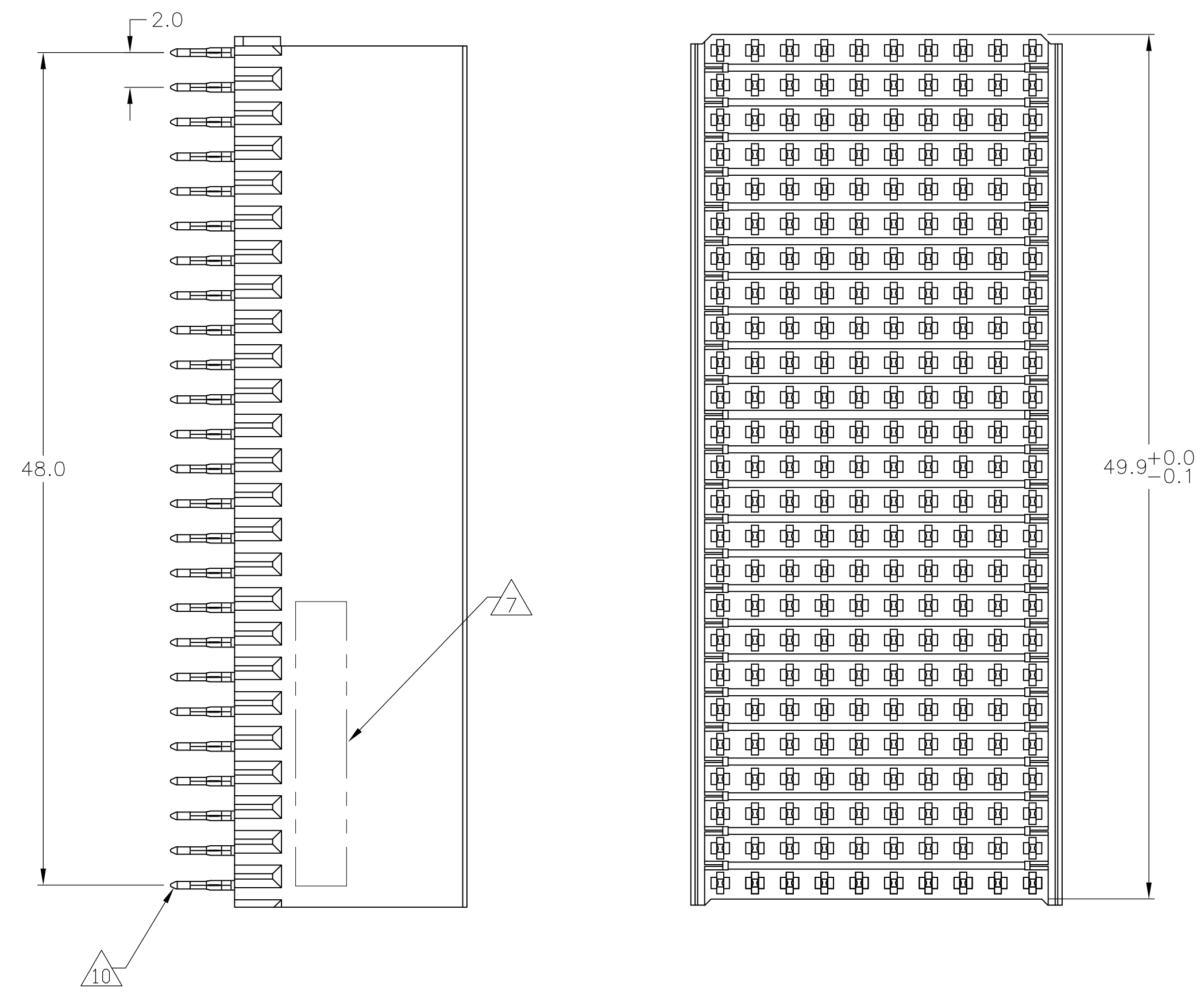
- Packaging Quantity = 11

Other:

- Brand = AMP

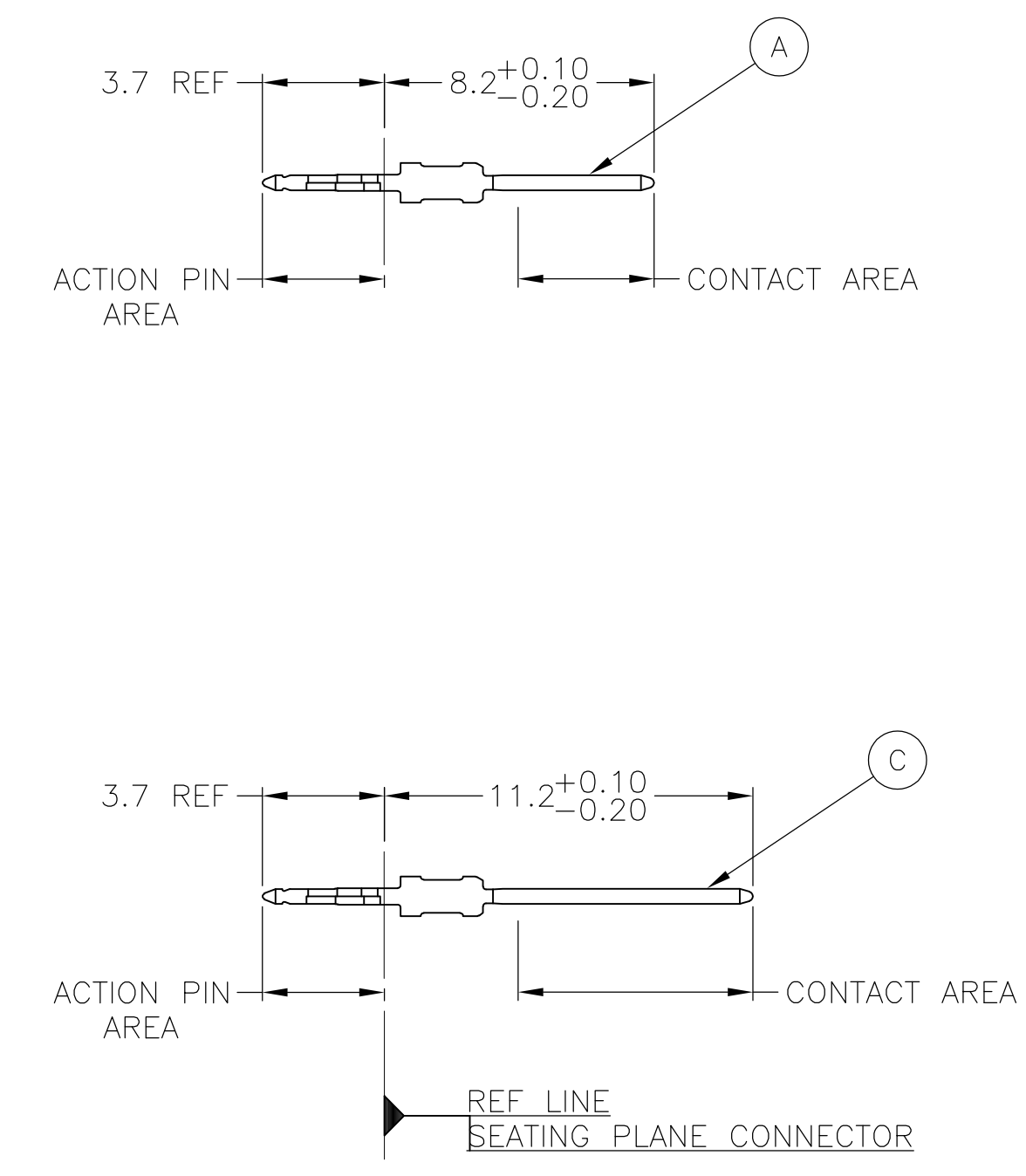
LOC		DIST		REVISIONS			
AD	00	REV	DATE	BY	CHK	APP	REV
B		REV PER EC 0512-0303-05	05APR06	BC	GS		
C		ECR-10-018652	10SEP10	JS	MQW		

CONNECTOR ASSEMBLY EXAMPLARY LOADED



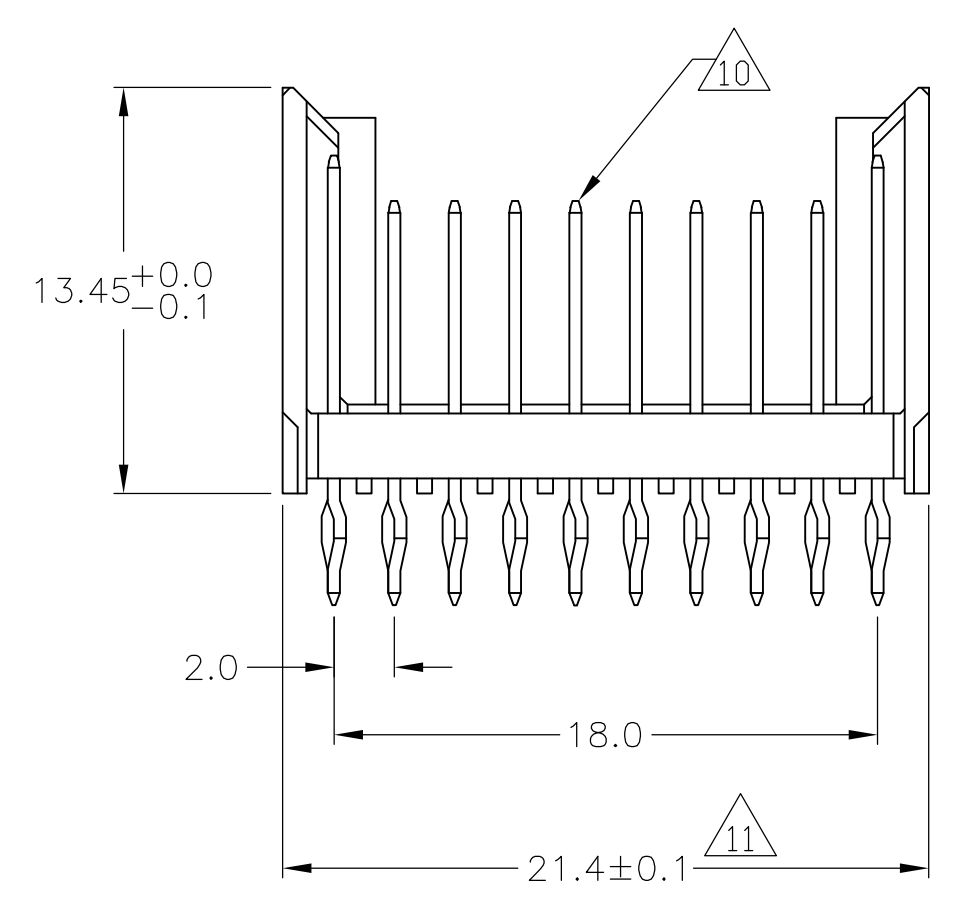
CONTACT DIMENSIONS

SCALE 5:1



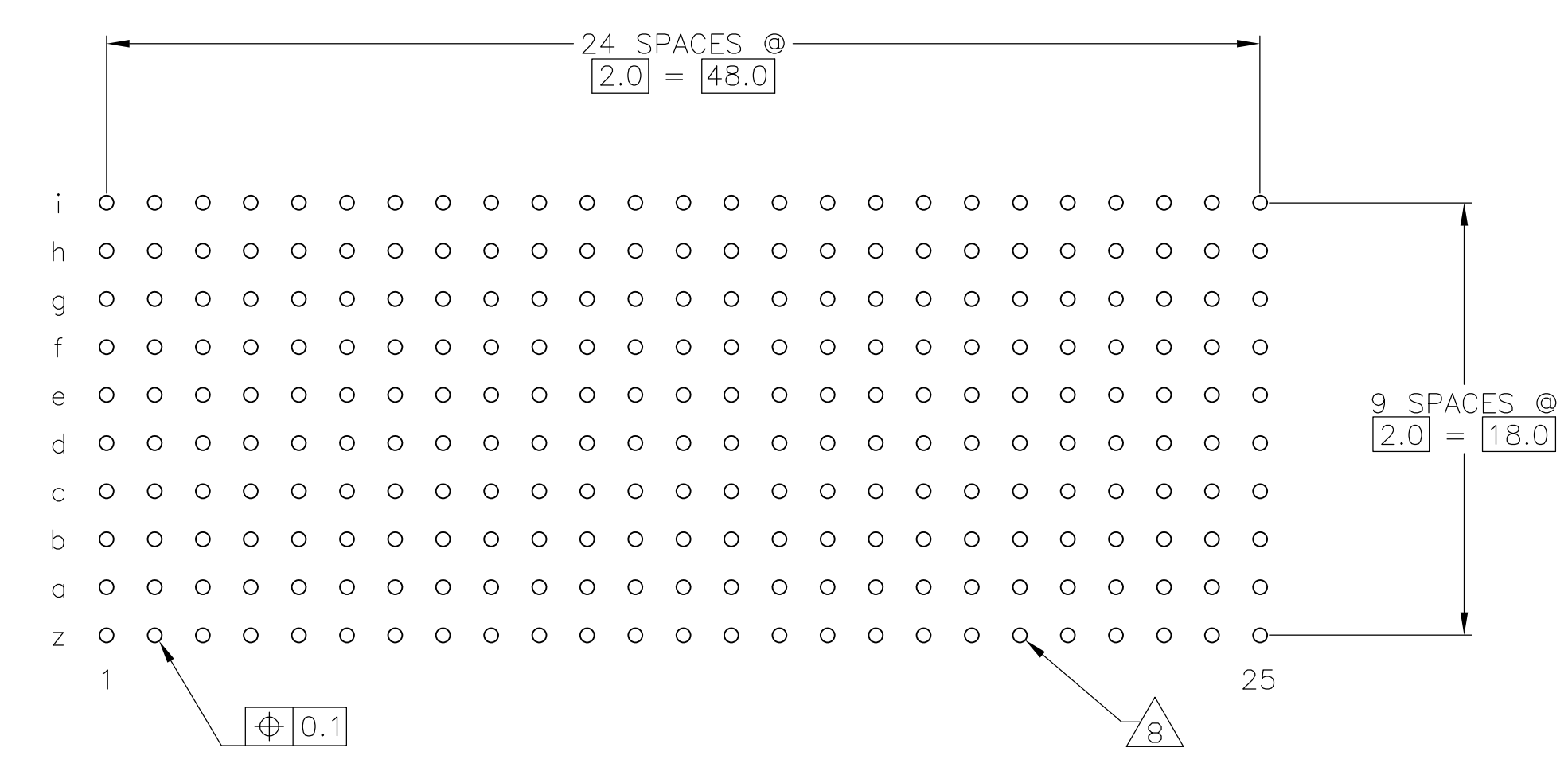
CONTACT LAYOUT

	z	a	b	c	d	e	f	g	h	i
1	C	A	A	A	A	A	A	A	A	C
2	C	A	A	A	A	A	A	A	A	C
3	C	A	A	A	A	A	A	A	A	C
4	C	A	A	A	A	A	A	A	A	C
5	C	A	A	A	A	A	A	A	A	C
6	C	A	A	A	A	A	A	A	A	C
7	C	A	A	A	A	A	A	A	A	C
8	C	A	A	A	A	A	A	A	A	C
9	C	A	A	A	A	A	A	A	A	C
10	C	A	A	A	A	A	A	A	A	C
11	C	A	A	A	A	A	A	A	A	C
12	C	A	A	A	A	A	A	A	A	C
13	C	A	A	A	A	A	A	A	A	C
14	C	A	A	A	A	A	A	A	A	C
15	C	A	A	A	A	A	A	A	A	C
16	C	A	A	A	A	A	A	A	A	C
17	C	A	A	A	A	A	A	A	A	C
18	C	A	A	A	A	A	A	A	A	C
19	C	A	A	A	A	A	A	A	A	C
20	C	A	A	A	A	A	A	A	A	C
21	C	A	A	A	A	A	A	A	A	C
22	C	A	A	A	A	A	A	A	A	C
23	C	A	A	A	A	A	A	A	A	C
24	C	A	A	A	A	A	A	A	A	C
25	C	A	A	A	A	A	A	A	A	C



RECOMMENDED PCB-HOLE LAYOUT COMPONENT SIDE SHOWN

PLATED THRU HOLES PARAMETERS
REFERENCE APPLICATION SPECIFICATION



OBSOLETE	REV	DATE	PART NUMBER
2	6	12	1-5646357-9
2	5	12	5646357-9
2	4		5646357-4
2	3		5646357-1
FINISH			PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DWG: J. POLIGNONE 28JAN05
 CHK: G. SKIPPER
 APP'D: G. SKIPPER
 NAME: Tyco Electronics Corporation, Harrisburg, Pa 17105-3608
 PRODUCT SPEC: MALE ASSEMBLY, Z-PACK 2mm HM, TYPE E
 APPLICATION SPEC: 108-1622
 APPLICATION SPEC: 114-19029
 MATERIAL: SEE TABLE
 FINISH: SEE TABLE
 WEIGHT: -
 SIZE: A1
 CAGE CODE: 00779
 DRAWING NO: 5646357
 RESTRICTED TO: -
 CUSTOMER DRAWING
 SCALE: 4:1
 SHEET: 1 OF 2
 REV: C

LOC		DIST		REVISIONS				
P	LTR	DESCRIPTION	DATE	DN	APVO			
AD	00	SEE SHEET 1	-	-	-			

- 1 MATERIAL:
CONTACT: PHOSPHOR BRONZE.
HOUSING: GLASS-FILLED POLYESTER.
- 2 GENERAL PLATING SPECIFICATION: UNDERPLATING
(ENTIRE CONTACT): 1.27µm MIN NICKEL AND ACTION
PIN: 0.5µm MIN TIN.
FOR PLATING OF MATING SURFACES SEE APPLICABLE
SPECIFICATION REFERENCE FOR EACH DASH NUMBER.
- 3 CONFORMS TO ALL TESTING ACCORDING TO IEC 61076-4-101
PERFORMANCE LEVEL 2.
- 4 CONFORMS TO ALL TESTING ACCORDING TO IEC 61076-4-101
PERFORMANCE LEVEL 1.
- 5 CONNECTOR TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL 3,
CENTRAL OFFICE APPLICATIONS.
- 6 CONNECTOR TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL 3,
UNCONTROLLED ENVIROMENT APPLICATIONS.
- 7 CONNECTOR MARKED WITH PART NUMBER AND DATE CODE.
ADDITIONAL CHARACTERS OR MARKINGS, AS WELL AS THE LOCATION OF THE MARKINGS,
MAY BE ADDED FOR TRACEABILITY BASED UPON MANUFACTURERS DISCRETION.
- 8 PLATED-THROUGH HOLES AT 2x2mm SQUARE GRID
PATTERN DEFINED BY CONTACT LAYOUT.
- 9 FOR ACTUAL PIN LOADING SEE "CONTACT LAYOUT".
- 10 FOR ACTUAL PIN DIMENSIONS SEE "CONTACT DIMENSIONS".
- 11 TO BE MEASURED AT BOTTOM OF SHROUD.
- 12 CONNECTOR LUBRICATED WITH BELCORE APPROVED LUBRICANT,
TECHNICAL REFERENCE: TR-NWT-001217 ISSUE 1, SEP 1992.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN J. POLIGNONE ZBJAN05		Tyco Electronics Corporation Harrisburg, Pa 17105-3608	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.2		Tyco Electronics	
		0-PLG ± 1-PLG ±0.1 2-PLG ± 3-PLG ± 4-PLG ± ANGLES ±1°		G.SKIPPER G.SKIPPER PRODUCT SPEC 108-1622 APPLICATION SPEC 114-19029	
MATERIAL SEE SHEET 1		FINISH SEE SHEET 1		NAME MALE ASSEMBLY, Z-PACK 2mm HM, TYPE E SIZE A1 CAGE CODE 00779 DRAWING NO. C=5646357 RESTRICTED TO	
CUSTOMER DRAWING		SCALE 4:1		SHEET 2 OF 2 REV C	