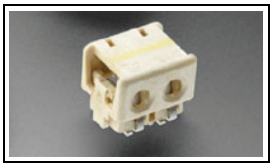
2-2106431-3 Product Details

Share Print Email



2-2106431-3

TE Internal Number: 2-2106431-3

Active

View 3D PDF

Solid State Lighting (SSL) IDC Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Wire-to-Board
- 4.00 mm Centerline
- Applies To Printed Circuit Board
- Contact Current Rating, Max. = 7 A
- Operating Voltage = 250 VAC

View all Features

Quick Links

- Pricing & Availability
- Search for Tooling
- Product Feature Selector
- Contact Us About This Product

Add to My Part List | Request Sample | Find Similar Products | Buy Product

Documentation & Additional Information

Product Drawings:
- ASSEMBLY, IDC SSL CONNECTOR, SMT, PASS THRU (PDF, English)

Catalog Pages/Data Sheets:
- IDC_SSL_CONNECTOR (PDF, English)

Product Specifications:
- IDC SSL Connector (PDF, English)

Application Specifications:
- IDC SSL Connector (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version A)
- 3D Model (IGES, Version A)
- 3D Model (STEP, Version A)

List all Documents

Related Products:
- Tooling

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

Product Type Features:
- Connector Type = Connector Assembly
- Connector Design = Feed Through
- Strain Relief = With
- Sealed = No
- Termination Method to PC Board = Surface Mount
- PCB Mount Retention = With
- PCB Mount Alignment = Without
- SMT Compatible = Yes
- Mount Angle = Right Angle
- Wire/Cable Type = Discrete Wire
- Termination Method to Wire/Cable = Insulation Displacement Crimp (IDC)
- Keyed = No
- PCB Mount Retention Type = Solder Pads
- Make First / Break Last = No

Electrical Characteristics:
- Contact Current Rating, Max. (A) = 7
- Operating Voltage (VAC) = 250
- Operating Voltage (VDC) = 250

Termination Features:
- Tail Orientation = Staggered
- Wire/Cable Size (AWG) = 22
- Tool-less Wire Termination = Yes

Dimensions:
- Length (X-Axis) (mm [in]) = 13.70 [0.539]
- Width (Z-Axis) (mm [in]) = 7.75 [0.305]
- Profile Height (Y-Axis) (mm [in]) = 5.80 [0.228]
- Post-Mating Assembly Measurement (mm [in]) = 13.7 [0.539]

Housing Features:
- Centerline (mm [in]) = 4.00 [0.157]
- Housing Material = Liquid Crystal Polymer (LCP)
- Housing Color = Natural
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Positions = 3
- Number of Rows = 1
- Pre-Designed Cables Available = No

Industry Standards:
- Agency/Standard = CSA, UL
- Agency/Standard Number = C22.2 No. 182.3-M1987, UL 1977
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C
- RoHS/ELV Compliance History = Always was RoHS compliant

Identification Marking:
- Circuit Identification Feature = Without

Environmental:
- Operating Temperature (°C [°F]) = -40 – +105 [-40 – +221]

Conditions for Usage:
- Applies To = Printed Circuit Board
- Accepts Wire Insulation Diameter, Range (mm [in]) = 1.70 [0.067]
- SMT Soldering Temperature (°C [°F]) = 220 [428]
- Lighting Interconnect Level = Level 1
- Glow Wire Rating = Standard Part - Not Glow Wire
- UV Exposure Rated = No

Body Features:
- Header Mating Direction = Horizontal
- Strain Relief Type = Terminating Covers

Contact Features:
- Contact Plating, Termination Area, Material = Matte Tin-Lead over Nickel
- Contact Plating, Termination Area, Thickness (µm [µin]) = 5.08 [200]
- Contact Plating, Mating Area, Material = Matte Tin
- Contact Plating, Mating Area, Thickness (µm [µin]) = 5.08 [200]
- Stamped and Formed = Yes

Operation/Application:
- Application Use = Wire-to-Board

Packaging Features:
- Packaging Method = SMT Pocket Tape

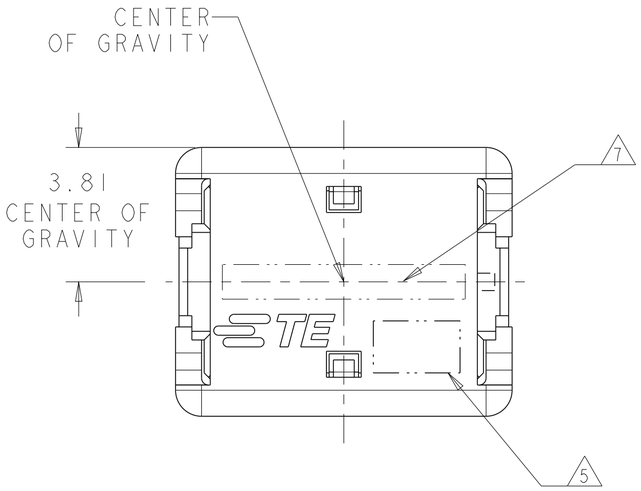
Other:
- Brand = TE Connectivity

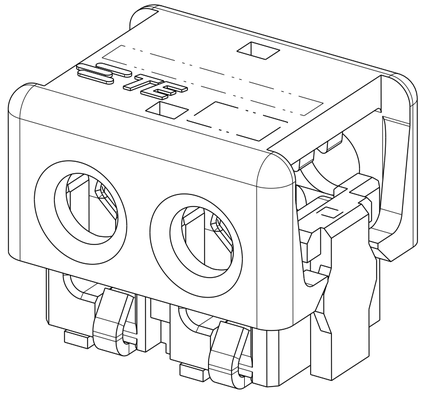
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

LOC	DIST
CM	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	REVISED PER ECR-1025509	15DEC2010	HMR	DD
	A1	REVISED PER ECR-12-003555	19APR2012	RS	DD
	A2	REVISED PER ECR-12-016877	20OCT2012	RS	DD





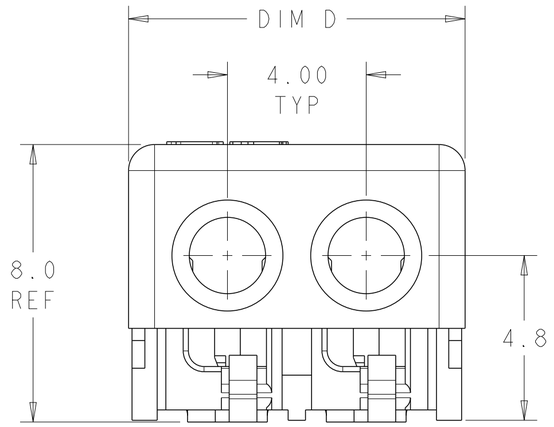
1. MATERIALS AND FINISH:
   - HOUSING: LCP, COLOR: NATURAL
   - CONTACTS: COPPER ALLOY, FINISH: Sn OVER Ni
2. COMPLY WITH DIRECTIVE 2002/95/EC (ROHS).
3. 18-22AWG SOLID OR STRANDED WIRE, PRE-BONDED, 19 STRANDS OR LESS:
   18AWG MAX INSULATION OD: 2.20
   20AWG MAX INSULATION OD: 1.90
   22AWG MAX INSULATION OD: 1.70
   24AWG MAX INSULATION OD: 1.45
4. PACKAGE IN TAPE AND REEL PER EIA-481 SPECIFICATION, EXCEPT 1 POSITION CONNECTOR.

5. WIRE SIZE MARKING IN APPROXIMATE LOCATION SHOWN.

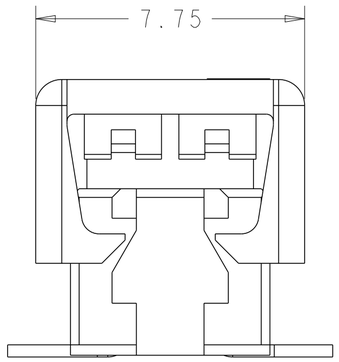
6. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

7. COLOR CODE MARKING, SRAIGHT LINE.

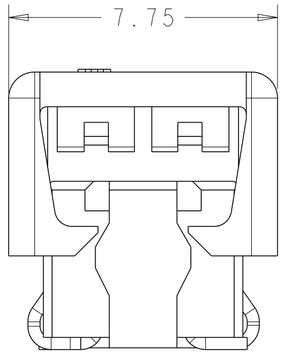
8. 1 POSITION ASSEMBLY DOES NOT COMPLY WITH EIA 481 SPECIFICATION.



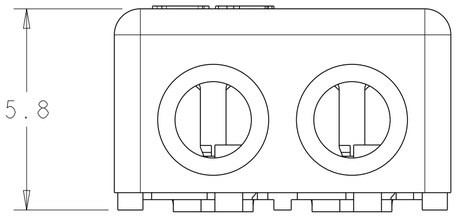
2 POSITION
SHOWN AS SHIPPED



FOR 1 POSITION
ONLY



FOR 2, 3 AND
4 POSITIONS



2 POSITION
SHOWN CLOSED
SCALE 8:1

COLOR CODE	DIM D	WIRE SIZE	POSN	PART NUMBER
RED	17.70	24 AWG	4	3-2106431-4
	13.70	24 AWG	3	3-2106431-3
	9.70	24 AWG	2	3-2106431-2
	5.70	24 AWG	1	(8) 3-2106431-1
GREEN	17.70	22 AWG	4	2-2106431-4
	13.70	22 AWG	3	2-2106431-3
	9.70	22 AWG	2	2-2106431-2
	5.70	22 AWG	1	(8) 2-2106431-1
BLUE	17.70	20 AWG	4	1-2106431-4
	13.70	20 AWG	3	1-2106431-3
	9.70	20 AWG	2	1-2106431-2
	5.70	20 AWG	1	(8) 1-2106431-1
YELLOW	17.70	18 AWG	4	2106431-4
	13.70	18 AWG	3	2106431-3
	9.70	18 AWG	2	2106431-2
	5.70	18 AWG	1	(8) 2106431-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL (1) -
FINISH (1) -

DWN C DAILY 09DEC2008
CHK J DYER 09DEC2008
APVD -
PRODUCT SPEC 108-2404
APPLICATION SPEC 114-13266
WEIGHT -

TE Connectivity

NAME ASSEMBLY, IDC SSL CONNECTOR, SMT, PASS THRU

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2106431	-

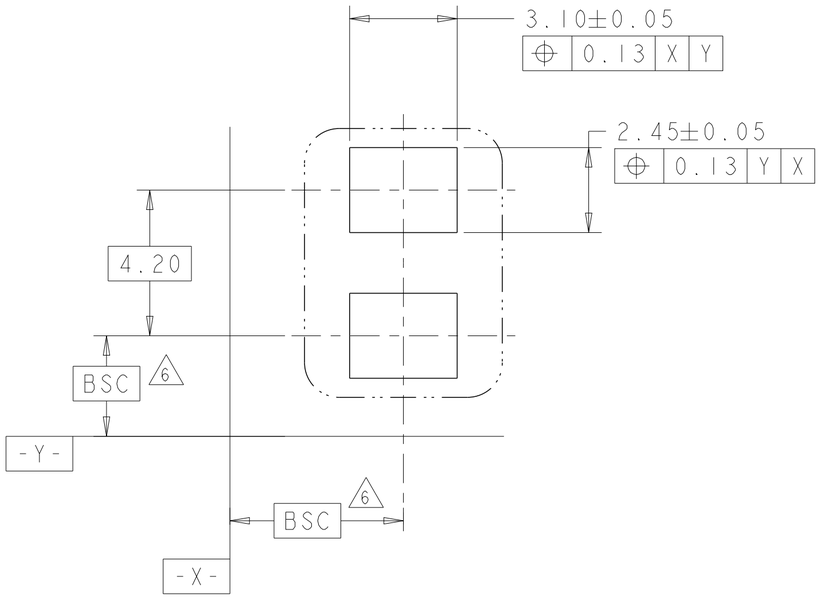
Customer Drawing | SCALE 6:1 | SHEET 1 OF 3 | REV A2

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

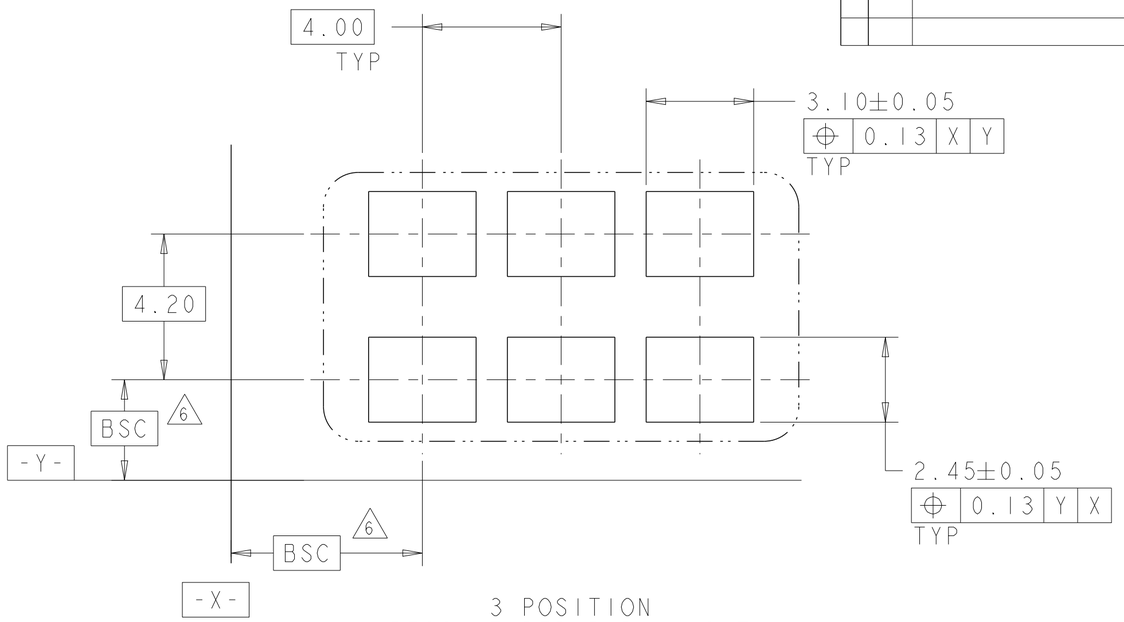
LOC	DIST
CM	00

REVISIONS

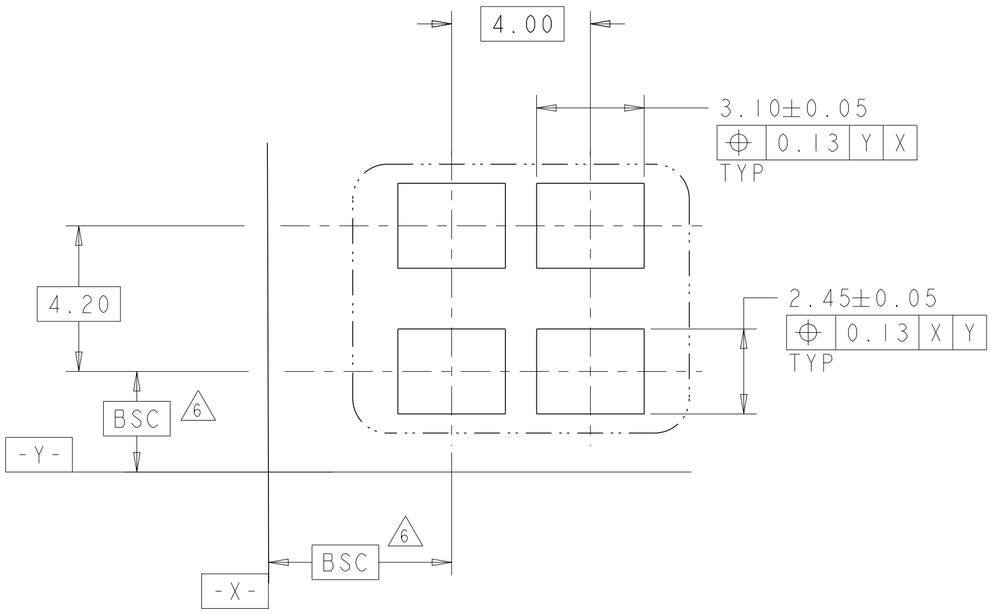
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



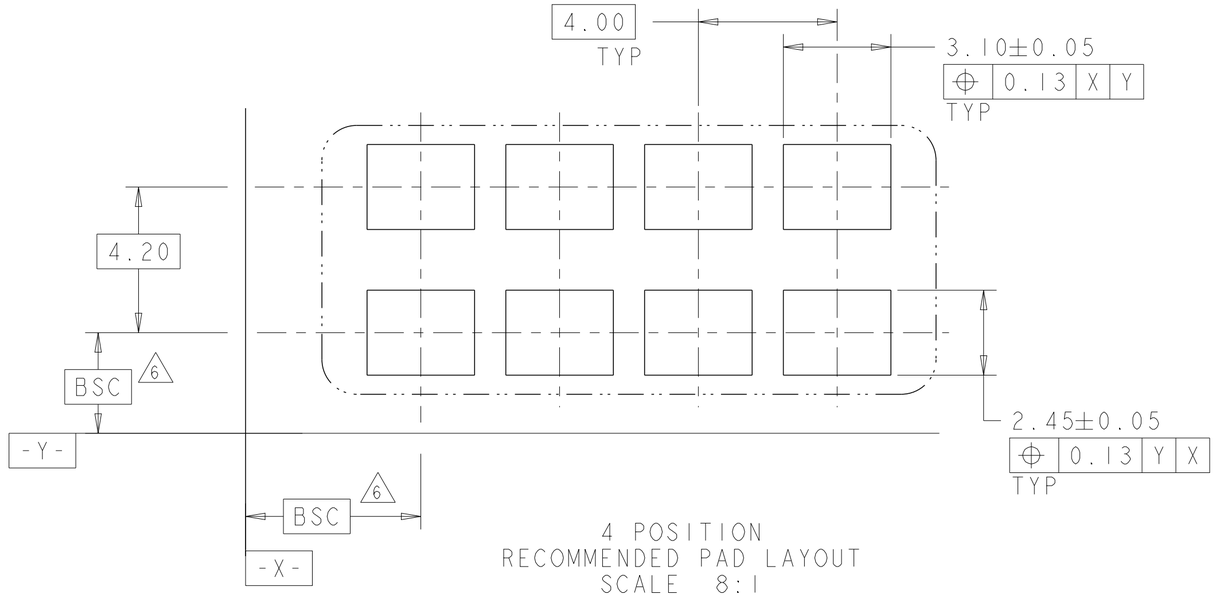
1 POSITION
RECOMMENDED PAD LAYOUT
SCALE 8:1



3 POSITION
RECOMMENDED PAD LAYOUT
SCALE 8:1



2 POSITION
RECOMMENDED PAD LAYOUT
SCALE 8:1



4 POSITION
RECOMMENDED PAD LAYOUT
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL -

FINISH -

DWN C DAILY 09DEC2008
CHK J DYER 09DEC2008
APVD -
PRODUCT SPEC 108-2404
APPLICATION SPEC 114-13266
WEIGHT -

Customer Drawing

TE Connectivity

NAME ASSEMBLY, IDC SSL CONNECTOR, SMT, PASS THRU

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2106431	-

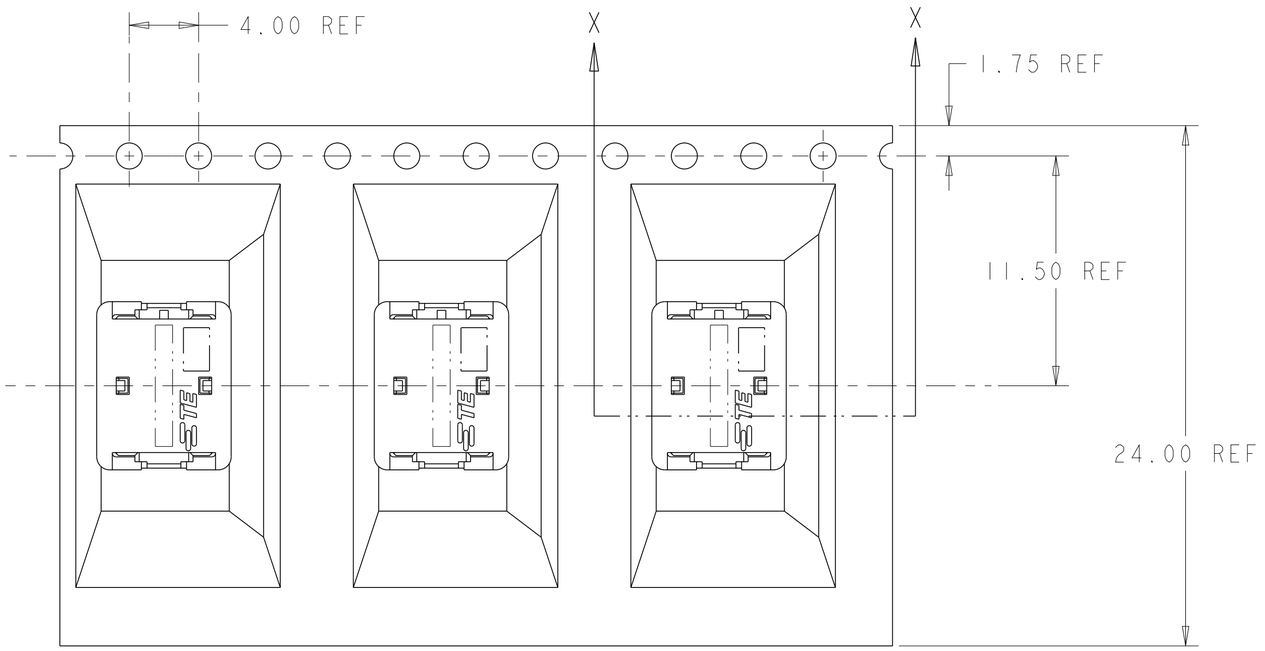
SCALE 6:1 SHEET 2 OF 3 REV A2

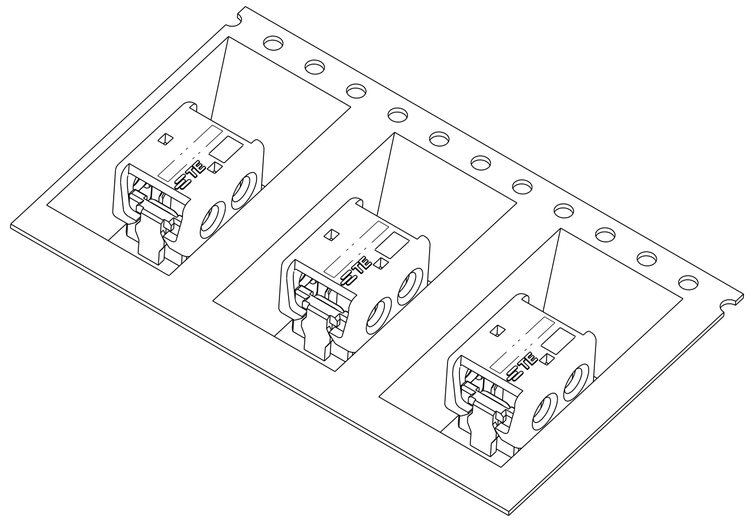
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

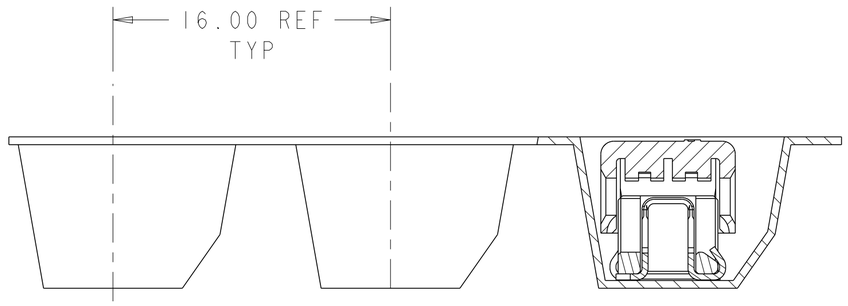
LOC	DIST
CM	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-







SECTION X-X

2106431-2 SHOWN IN POCKET TAPE

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±-
4 PLC ±-
ANGLES ±-

MATERIAL -
FINISH -

DWN C DAILY 09DEC2008
CHK J DYER 09DEC2008
APVD -
PRODUCT SPEC 108-2404
APPLICATION SPEC 114-13266
WEIGHT -
Customer Drawing

TE Connectivity

NAME ASSEMBLY, IDC SSL CONNECTOR, SMT, PASS THRU

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-2106431	-

SCALE 6:1 SHEET 3 OF 3 REV A2