THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION -.- .
© COPYRIGHT – TE Connectivity ALL RIGHTS RESERVED.

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	F1	REVISED PER ECO-18-001257	03JAN2018	R.L	H.L

LOW HALOGEN

Notes:

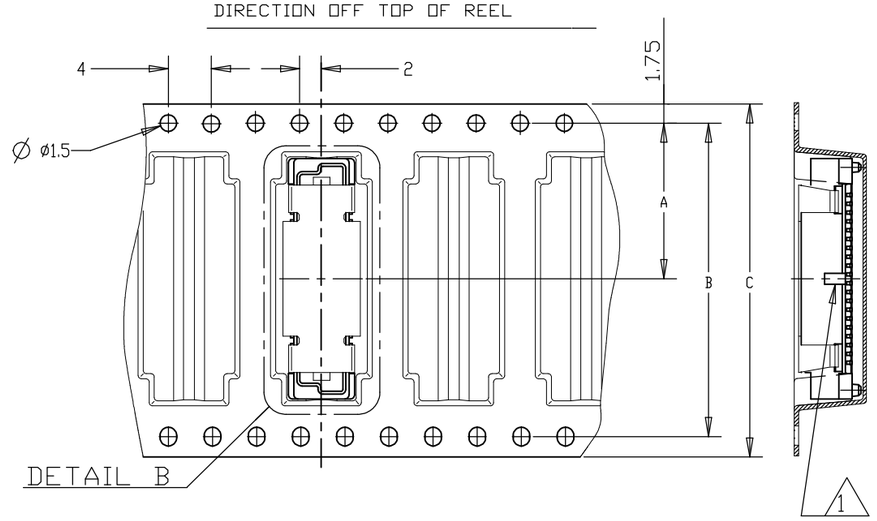
1. CUTOUT FEATURE AVAILABLE ONLY ON 5H ASSY P/N -1 (40P) AND -2 (60P).
6. 0.00038 MIN GOLD PLATING (15u INCHES GOLD PLATING)
3. CONNECTOR DIMENSIONS REFERENCED FROM DRAWING WHICH CONN. P/Ns BASED
4. CONNECTOR WITH BLACK HOUSING
5. MATERIAL: HOUSING: L.C.P UL 94-V0. CONTACT: BRASS

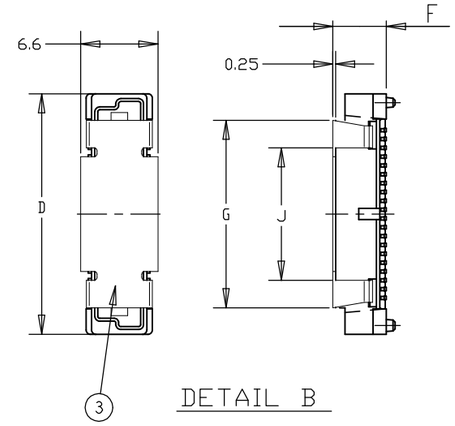
F1

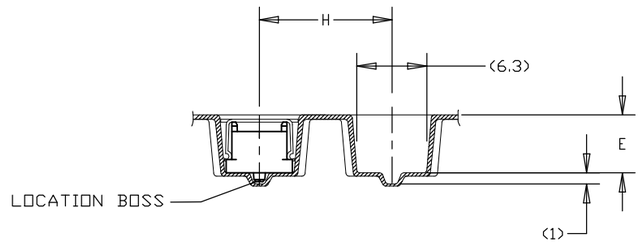
	REMARKS	QTY	HEIGHT TYPE	Y	X	J	H	G	F	E	D	C	B	A	POS	SALEABLE PART NO.
0.00076 MIN GOLD PLATING (30u INCHES GOLD PLATING)		450					16				61.8	88	84.4	42.2	140	7- -6
											53.8				120	7- -5
											45.8	72	68.4	34.2	100	7- -4
											37.8	56	52.4	26.2	80	7- -3
											29.8	44	40.4	20.2	60	7- -2
		700	7H	3.6	6.6		12		6.85	7.25	21.8	32	28.4	14.2	40	7-5177986-1
		550					16				69.8				160	6- -8
											61.8	88	84.4	42.2	140	6- -6
											53.8				120	6- -5
											45.8	72	68.4	34.2	100	6- -4
											37.8	56	52.4	26.2	80	6- -3
											29.8	44	40.4	20.2	60	6- -2
		800	6H	2.6	5.6		12		5.85	6.25	21.8	32	28.4	14.2	40	6-5177986-1
		650					16				85.8	104	100.4	50.2	200	5- -0
											69.8				160	5- -8
											61.8	88	84.4	42.2	140	5- -6
											53.8				120	5- -5
											45.8	72	68.4	34.2	100	5- -4
											37.8	56	52.4	26.2	80	5- -3
											29.8	44	40.4	20.2	60	5- -2
		900	5H	1.2	4.6	12	12	17	4.85	5.25	21.8	32	28.4	14.2	40	5-5177986-1
	2	900	5H	1.2	4.6	12	12	17	4.85	5.25	37.8	56	52.4	26.2	80	8-5177986-3
		450	7H	3.6	6.6	12	16	17	6.85	7.25	53.8	72	68.4	34.2	120	4-5177986-5
0.0002 MIN GOLD PLATING (7.8u INCHES GOLD PLATING)		400					16				85.8				200	4- -0
											77.8	104	100.4	50.2	180	3- -9
											69.8				160	3- -8
											61.8	88	84.4	42.2	140	3- -6
											53.8				120	3- -5
											45.8	72	68.4	34.2	100	3- -4
											37.8	56	52.4	26.2	80	3- -3
											29.8	44	40.4	20.2	60	3- -2
		600	8H	4.6	7.6		12		7.85	8.25	21.8	32	28.4	14.2	40	3-5177986-1
		450					16				85.8				200	3- -0
											77.8	104	100.4	50.2	180	2- -9
											69.8				160	2- -8
											61.8	88	84.4	42.2	140	2- -6
											53.8				120	2- -5
											45.8	72	68.4	34.2	100	2- -4
		700					12				37.8	56	52.4	26.2	80	2- -3
											29.8	44	40.4	20.2	60	2- -2
		500	7H	3.6	6.6		16		6.85	7.25	21.8	32	28.4	14.2	40	2-5177986-1
		550					16				61.8	88	84.4	42.2	140	2-5177986-0
											53.8				120	1- -6
											45.8	72	68.4	34.2	100	1- -5
											37.8	56	52.4	26.2	80	1- -4
		800	6H	2.6	5.6		12		5.85	6.25	29.8	44	40.4	20.2	60	1- -3
											21.8	32	28.4	14.2	40	1- -2
		650					16				69.8				160	1-5177986-1
											61.8	88	84.4	42.2	140	-8
											53.8				120	-6
											45.8	72	68.4	34.2	100	-5
											37.8	56	52.4	26.2	80	-4
											29.8	44	40.4	20.2	60	-3
		900	5H	1.2	4.6	12	12	17	4.85	5.25	21.8	32	28.4	14.2	40	-2
																5177986-1

1471-9 (1/15)

DIRECTION OFF TOP OF REEL

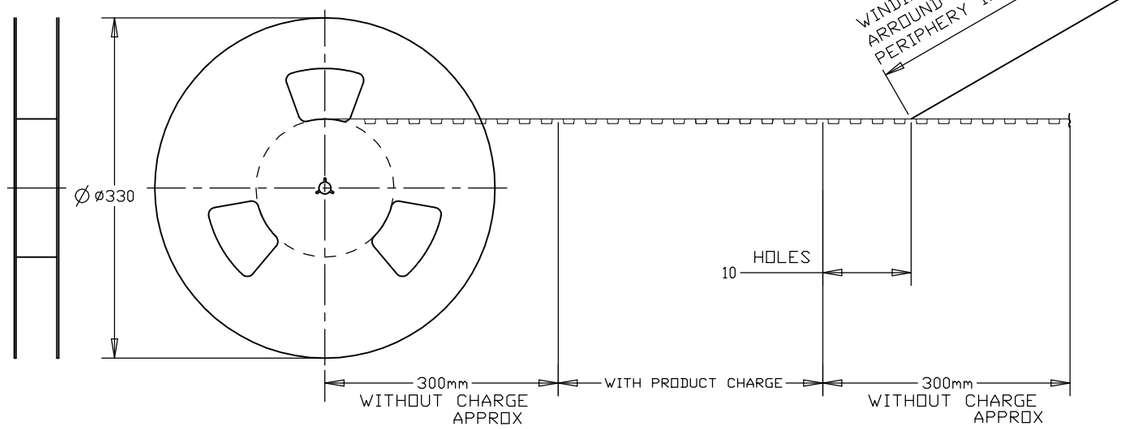






勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
http://www.100y.com.tw

STEEL COVER



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± 0.2
2 PLC ± 0.15
3 PLC ± 0.1
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN FLORENCE TAN 30AUG2004
CHK ERIC TNG 30MAY2012
APVD SF LEONG 30MAYT2012
PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT 0

TE Connectivity

NAME
PLUG ASSEMBLY, FH 0.8
ON TAPING (EMBOSS) 0.5 BOSS LENGTH
–

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-5177986	–

CUSTOMER DRAWING | SCALE 1:1 | SHEET 1 OF 3 | REV F1

5177986

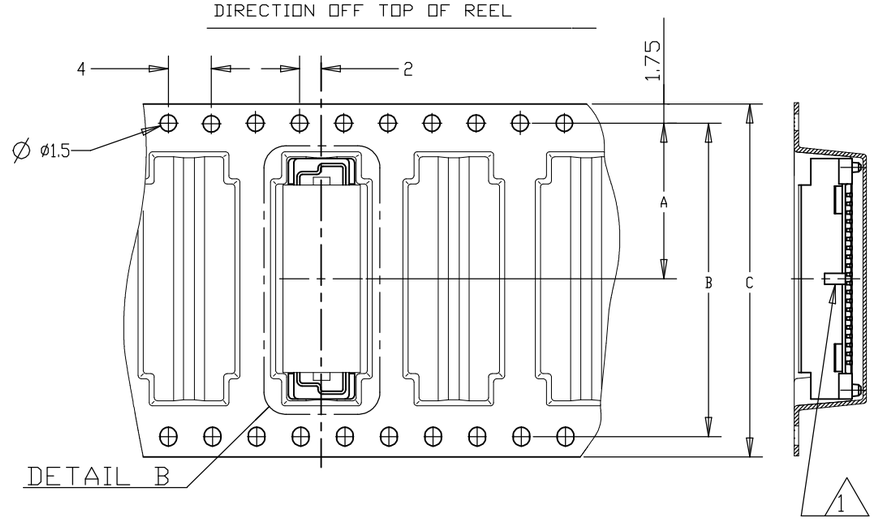
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION -.- .
© COPYRIGHT – TE Connectivity ALL RIGHTS RESERVED.

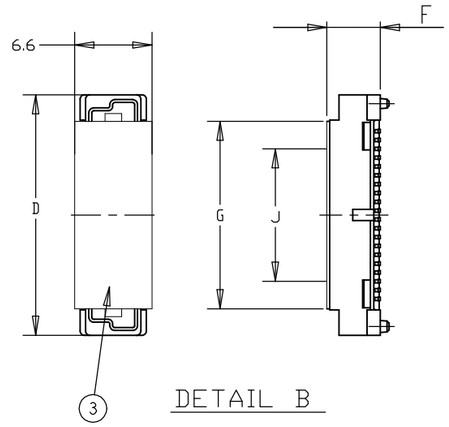
LOW HALOGEN

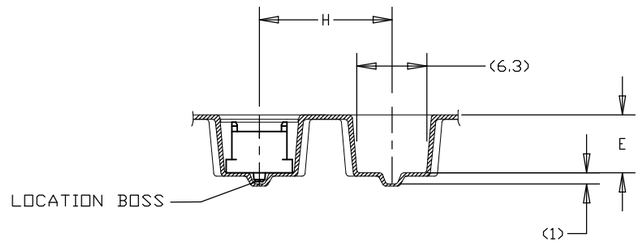
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	–	–

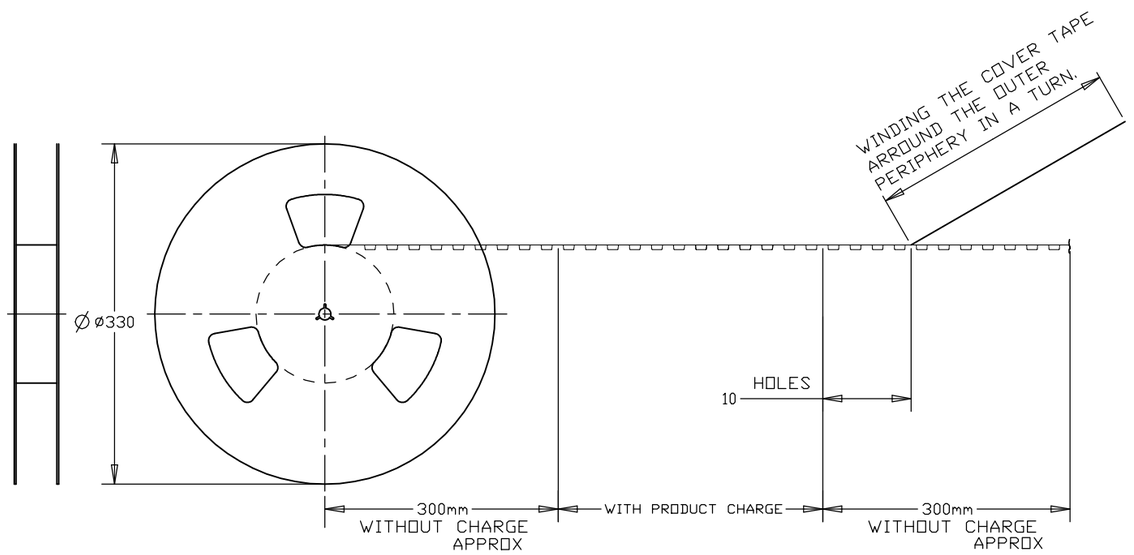
Notes:

6 0.0002 MIN GOLD PLATING
(7.8u INCHES GOLD PLATING)









POLYIMIDE COVER

6	650	5H	12	16	17	4.85	5.25	61.8	88	84.4	42.2	140	9-5177986-6	4
REMARKS	QTY	HEIGHT TYPE	J	H	G	F	E	D	C	B	A	POS	SALEABLE PART NO.	

1471-9 (1/15)

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± 0.2
2 PLC ± 0.15
3 PLC ± 0.1
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN FLORENCE TAN 30AUG2004
CHK ERIC TNG 30MAY2012
APVD SF LEONG 30MAYT2012
PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT 0

TE Connectivity

NAME
PLUG ASSEMBLY, FH 0.8
ON TAPING (EMBOSS) 0.5 BOSS LENGTH
–

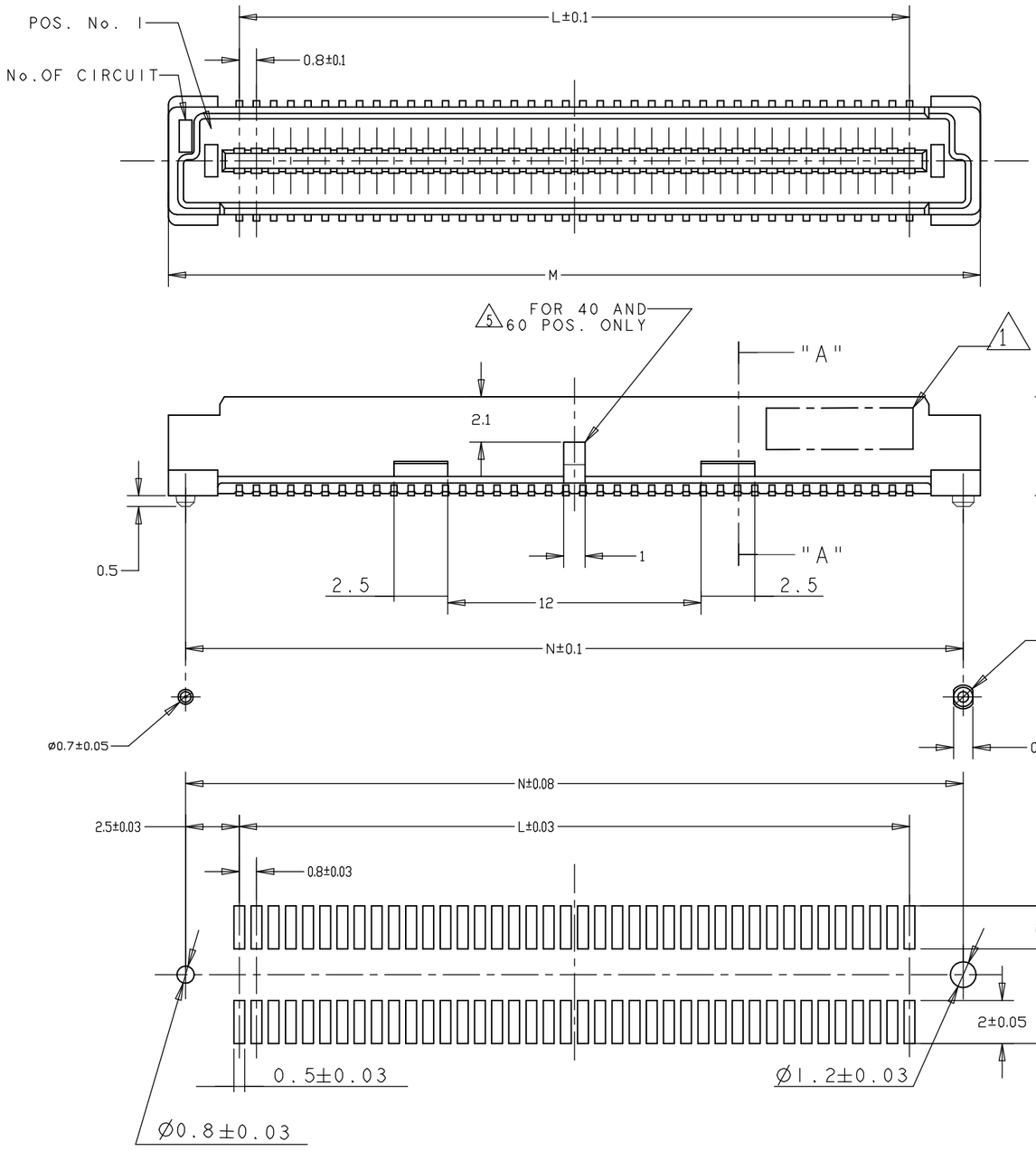
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-5177986	–

CUSTOMER DRAWING | SCALE 1:1 | SHEET 2 OF 3 | REV F1

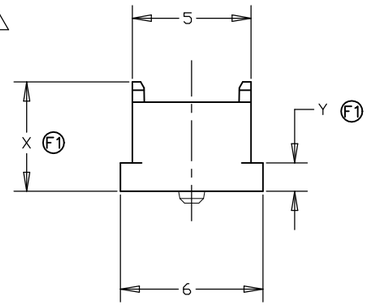
5177986

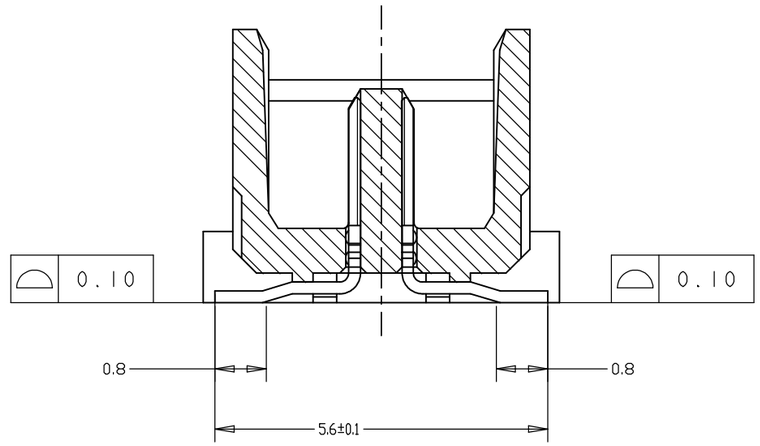
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION -.-.-
© COPYRIGHT – TE Connectivity ALL RIGHTS RESERVED.

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	–	–



RECOMMENDED P.C.BOARD LAYOUT





SECT."A"-"A"

CONNECTOR ONLY

F1 N	M	L	POS.
84.2	85.8	79.2	200
76.2	77.8	71.2	180
68.2	69.8	63.2	160
60.2	61.8	55.2	140
52.2	53.8	47.2	120
44.2	45.8	39.2	100
36.2	37.8	31.2	80
28.2	29.8	23.2	60
20.2	21.8	15.2	40

LOW HALOGEN

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± 0.2
2 PLC ± 0.15
3 PLC ± 0.1
4 PLC ± –
ANGLES ± –

MATERIAL –

FINISH –

DWN FLORENCE TAN 30AUG2004
CHK ERIC TNG 30MAY2012
APVD SF LEONG 30MAYT2012
PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT 0

TE Connectivity

NAME
PLUG ASSEMBLY, FH 0.8
ON TAPING (EMBOSS) 0.5 BOSS LENGTH
–

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C-5177986	–

CUSTOMER DRAWING

SCALE	SHEET	REV
1:1	3 OF 3	F1

5177986

AMP-LATCH* and IDC Header Connectors, .100 X .100 Inch Grid

1. SCOPE

1.1. Content

This specification covers performance, tests and quality requirements for AMP-LATCH* universal and low profile, and IDC standard and low profile .100 X .100 inch grid headers, right angle and vertical assemblies.

1.2. Qualification

When tests are performed on subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using applicable inspection plan and product drawing.

1.3.

Successful qualification testing on the subject product line was completed on 03Nov95, additional testing was completed on 23Feb10. The Qualification Test Report number for this testing is 501-325. This documentation is on file at and available from Engineering Practices and Standards (EPS).

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and referenced documents, this specification shall take precedence.

2.1. TE Connectivity (TE) Documents

- 109-1: Test Specification (General Requirements for Test Specifications)
- 109 Series: Test Specifications as indicated in Figure 1
- 501-325: Qualification Test Report (Connector, AMPLATCH* Header, .100 X .100 Inch Grid)

2.2. Industry Document

EIA-364: Electrical Connector/Socket Test Procedures Including Environmental Classifications

2.3. Reference Document

109-197: Test Specification (Tyco Electronics Test Specifications vs EIA and IEC Test Methods)

3. REQUIREMENTS

3.1. Design and Construction

Product shall be of design, construction and physical dimensions specified on applicable product drawing.

3.2. Materials

Materials used in the construction of this product shall be as specified on the applicable product drawing.

©2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. Company
All Rights Reserved
TE logo is a trademark.

Other products, logos, and company names might be trademarks of their respective owners.

3.3. Ratings

- Voltage: 250 volts AC
- Current: Signal application only, 1 ampere maximum per contact
- Temperature: -65 to 105°C

3.4. Performance and Test Description

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Figure 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per Test Specification 109-1.

3.5. Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Examination of product.	Meets requirements of product drawing.	Visual, dimensional and functional per applicable quality inspection plan.
ELECTRICAL		
Insulation resistance.	5000 megohms minimum initial. 1000 megohms minimum final.	EIA-364-21. 500 volts DC, 2 minute hold. Test between adjacent contacts of unmated specimens.
Withstanding voltage.	One minute hold with no breakdown or flashover.	EIA-364-20, Condition I. 1000 volts AC at sea level. Test between adjacent contacts of unmated specimens.
MECHANICAL		
Solderability.	Solderable area shall have minimum of 95% solder coverage.	TE Spec 109-11-1. Subject contacts to solderability for specimens with tin-lead plated soldertails.
		TE Spec 109-11-11. Subject contacts to solderability for specimens with lead-free tin plated soldertails.
Component resistance to wave soldering.	See Note.	TE Spec 109-202, Condition A. 240°C for specimens with tin-lead plated soldertails.
		TE Spec 109-202, Condition B. 265°C for specimens with lead-free tin plated soldertails.
Contact retention.	Post shall not dislodge from normal position.	EIA-364-29, Method A. Apply axial load of 2 pounds to contacts and hold for 6 seconds. See Figure 3.

Figure 1 (continued)

Test Description	Requirement	Procedure
ENVIRONMENTAL		
Thermal shock.	See Note.	EIA-364-32, Test Condition II. Subject unmated specimens to 5 cycles between -65 and 105°C with 30 minute dwells at temperature extremes.
Humidity/temperature cycling.	See Note.	EIA-364-31, Method III. Subject unmated specimens to 10 cycles (10 days) between 25 and 65°C at 80 to 100% RH with cold shock.

NOTE *Shall meet visual requirements, show no physical damage and shall meet requirements of additional tests as specified in Test Sequence in Figure 2.*

Figure 1 (end)

3.6. Product Qualification and Requalification Test Sequence

Test or Examination	Test Group (a)		
	1	2	3
	Test Sequence (b)		
Examination of product	1,3,5	1,3	1,8
Insulation resistance			2,6
Withstanding voltage			3,7
Solderability		2	
Component resistance to wave soldering	2		
Contact retention	4		
Thermal shock			4
Humidity/temperature cycling			5

NOTE *(a) See paragraph 4.1.A.*
(b) Numbers indicate sequence in which tests are performed.

Figure 2

4. QUALITY ASSURANCE PROVISIONS

4.1. Qualification Testing

A. Specimen Selection

Specimens shall be prepared in accordance with applicable Instruction Sheets and shall be selected at random from current production. All test groups shall each consist of a minimum of 5 headers of each type.

B. Test Sequence

Qualification inspection shall be verified by testing specimens as specified in Figure 2.

4.2. Requalification Testing

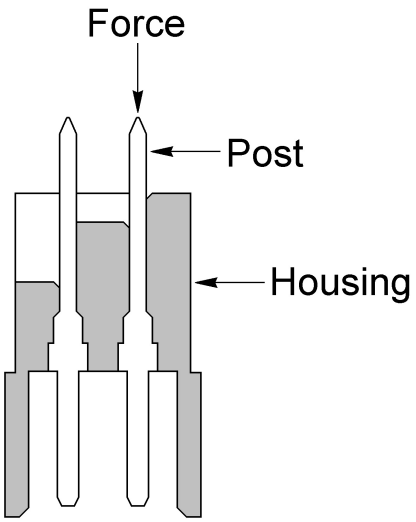
If changes significantly affecting form, fit or function are made to the product or manufacturing process, product assurance shall coordinate requalification testing, consisting of all or part of the original testing sequence as determined by development/product, quality and reliability engineering.

4.3. Acceptance

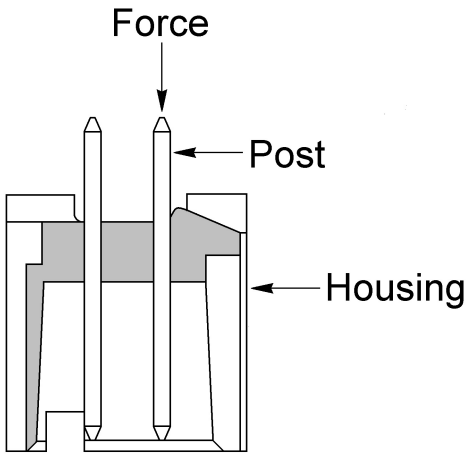
Acceptance is based on verification that the product meets the requirements of Figure 1. Failures attributed to equipment, test setup or operator deficiencies shall not disqualify the product. When product failure occurs, corrective action shall be taken and specimens resubmitted for qualification. Testing to confirm corrective action is required before resubmittal.

4.4. Quality Conformance Inspection

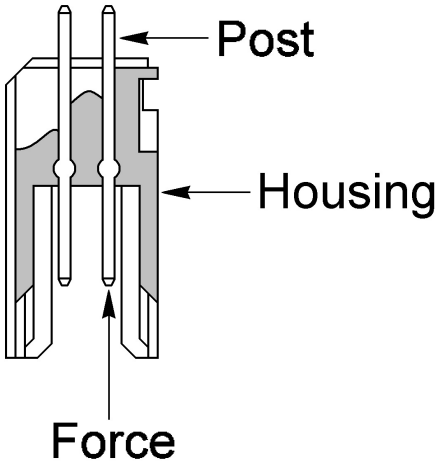
The applicable quality inspection plan will specify sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.



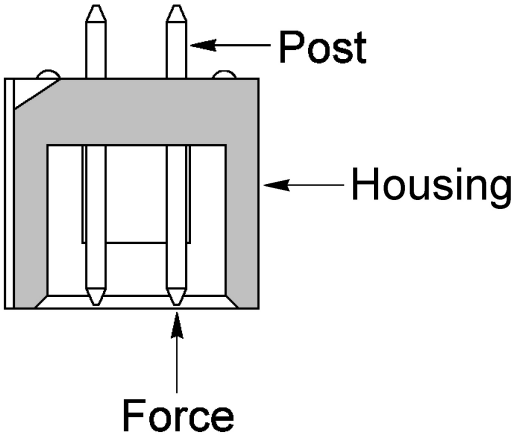
AMP-LATCH Universal Header



AMP-LATCH Low Profile Header



IDC Standard Profile Header



IDC Low Profile Header

Figure 3
Contact Retention