3M[™] Three-Wall Header

$.100^{\prime\prime} \times .100^{\prime\prime}$ Latch/Ejector, Straight and Right Angle

3000 Series



Physical

Insulator	
Material:	Glass Filled Polyester (PBT)
	Glass Filled Polyester (PCT) - High Temp Option
Flammability:	UL 94V-0
Color:	Gray (PBT), Beige (PCT), or Black (PCT)
Contact	
Material:	Copper Alloy
Plating	
Underplating:	100 μ" [2.54 μm] Nickel - Overall
Wiping Area:	30 μ" [0.76 μm] Gold
Solder Tails:	$200~\mu^{\prime\prime}$ [$5.08~\mu m$] Tin Lead or Matte Tin (See Ordering Information)
Marking:	3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating:	1 A
Insulation Resistance:	${>}1 \times 10^9 \Omega$ at 500 V_{DC}
Withstanding Voltage:	1000 $\mathrm{V}_{\mathrm{RMS}}$ at Sea Level

Environmental

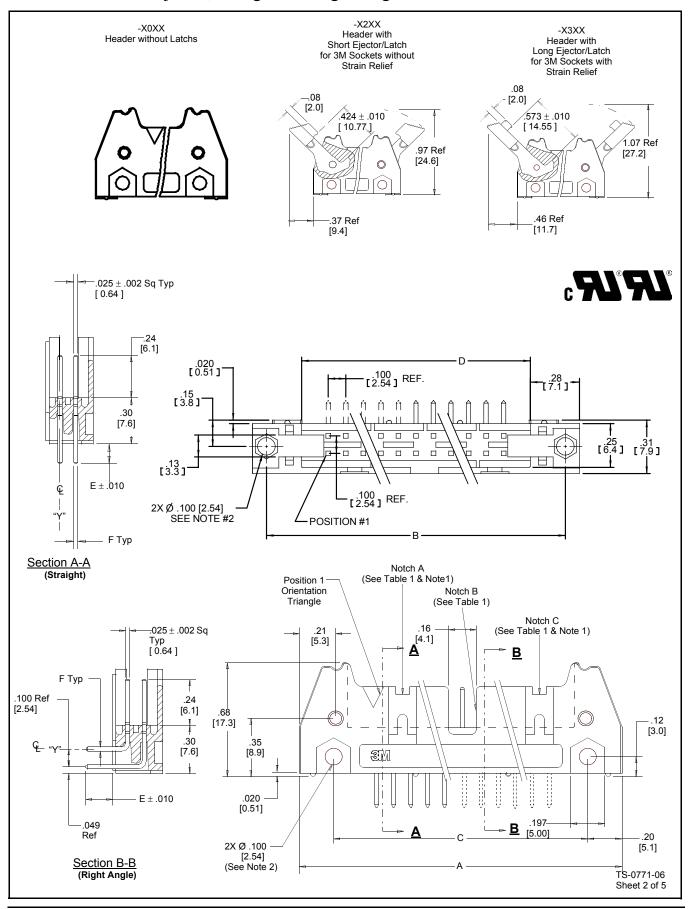
Temperature Rating:	-55°C to +105°C
Process Rating:	260°C (High Temp. PCT insulator) single pass (per J-STD-020C)
	PBT gray insulator, maximum insulator temperature 191°C (solder wave process only)
Moisture Sensitivity Level:	1 (per J-STD-020C) High Temp. (PCT) versions only

UL File No.: E68080

3M Interconnect Solutions http://www.3M.com/interconnects/

3M[™] Three-Wall Header .100″ × .100″Latch/Ejector, Straight and Right Angle

3000 Series



SM Interconnect Solutions http://www.3M.com/interconnects/

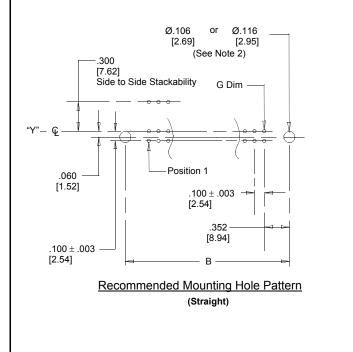
3M[™] Three-Wall Header

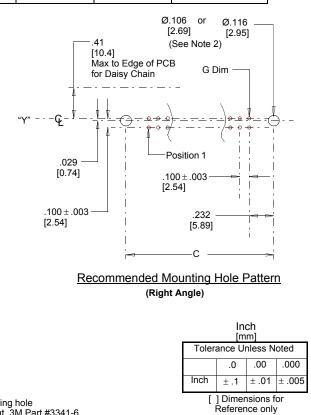
.100" × .100"Latch/Ejector, Straight and Right Angle

3000 Series

Table 1							
Pin	3M Part Number		Polarization				
Quantity		Α	В	С	D	 Notches Provided 	
10	3793	1.26 [32.1]	1.105 [28.07]	.865 [21.97]	.71 [18.0]	B C	
14	3314	1.46 [37.2]	1.305 [33.15]	1.065 [27.05]	.91 [23.1]	B C	
16	3408	1.56 [39.7]	1.405 [35.69]	1.165 [29.59]	1.01 [25.6]	A B C	
20	3428	1.76 [44.8]	1.605 [40.77]	1.365 [34.67]	1.21 [30.7]	A B C	
26	3429	2.06 [52.4]	1.905 [48.39]	1.665 [42.29]	1.51 [38.3]	A B C	
34	3431	2.46 [62.6]	2.305 [58.55]	2.065 [52.45]	1.91 [48.5]	A B C	
40	3432	2.76 [70.2]	2.605 [66.17]	2.365 [60.07]	2.21 [56.1]	A B C	
50	3433	3.26 [82.9]	3.105 [78.87]	2.865 [72.77]	2.71 [68.8]	A B C	
60	3372	3.76 [95.6]	3.605 [91.57]	3.365 [85.47]	3.21 [81.5]	A B C	
64	3764	3.96 [100.7]	3.805 [96.65]	3.565 [90.55]	3.41 [86.6]	A B C	

Table 2							
3M Part	Contact Tail	Dimension E		Dimension G			
Number Suffix			Dimension F	Diagonals	Corner Radii		
-1XX2 -2XX2	Solder Tail for .062 [1.57] Thick PC Board	.112 [2.84]	$\begin{array}{c} 0.0245 \pm .0005 \\ [0.622] \end{array}$	0.028 ± .001 [0.71]	0.0075 Ref [0.191]	Ø.035 ± .003 [0.89] (See Note 3)	
-1X03 -2X03	Solder Tail for .094 [2.39] to .125 [3.18] Thick PC Board	.155 [3.94]	0.0245 ± .0005 [0.622]	$\begin{array}{c} 0.028 \pm .001 \\ [0.71] \end{array}$	0.0075 Ref [0.191]	Ø.035 ± .003 [0.89]	





Notes: 1. Notches A & C will accomodate 3M Polarizing Keys (3M Part #3518 or N3518). 2. Accepts Rear and Front mounting hardware: Rear Entry: #4-24 thread cutting screw, 3M Part #3341-5, .116 [2.95] dia mounting hole Front Entry: (Prior to installation of latch on Straight Versions) #2-56 bolt and nut, 3M Part #3341-6, .106 [2.69] dia mounting hole 3. The recommended PCB hole size for the kinked tail positions on the .112 solder tail connector is $.035 \pm .002$.

Kink is located .05" below bottom surface of plastic. External radius of kink toward part centerline.

ЗМ

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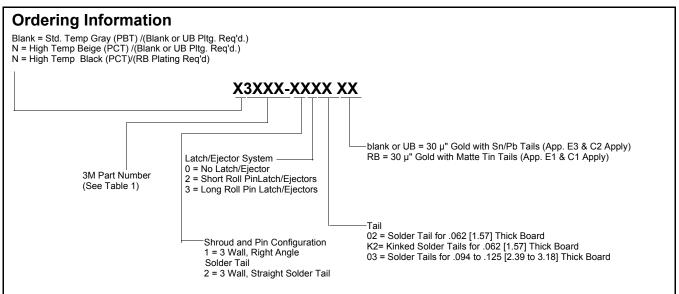
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TS-0771-06

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3M[™] Three-Wall Header

 $.100^{\prime\prime} \times .100^{\prime\prime} Latch/Ejector, Straight and Right Angle$



Part Customization

This spec sheet details our standard offering.

3M has several capabilities that can provide a part tailored to your specific needs. Ask your 3M sales representative or customer service for more details.

Use of snap-in style latch/ejectors in either short (N3XXX-X5XX) or long (N3XXX-X6XX) styles, installed or shipped separately (the -5 & -6 snap-in latches are dimensional and functional equivalents to the -2 & -3 roll pin latches) which are also available separately with roll pins included. Refer to chart below.

If ordering snap-in or roll pin style latches separately, please use the below chart

	Short Latch	Long Latch	Latch Style	Color
Standard Temperature (PBT)	3505-2	3505-3	Roll Pin	Gray
High Temperature (PCT)	N3505-2	N3505-3	Roll Pin	Beige
High Temperature (PCT)	N3505-2B	N3505-3B	Roll Pin	Black
High Temperature (PPA)	3505-30	3505-31	Snap-In	Gray
High Temperature (PPA)	N3505-30	N3505-31	Snap-In	Beige
High Temperature (PPA)	N3505-30B	N3505-31B	Snap-In	Black

- Selective pin removal (ATA or other compatibility)
- Wire wrap tail styles

Kinked Tail (K2 option) positions:

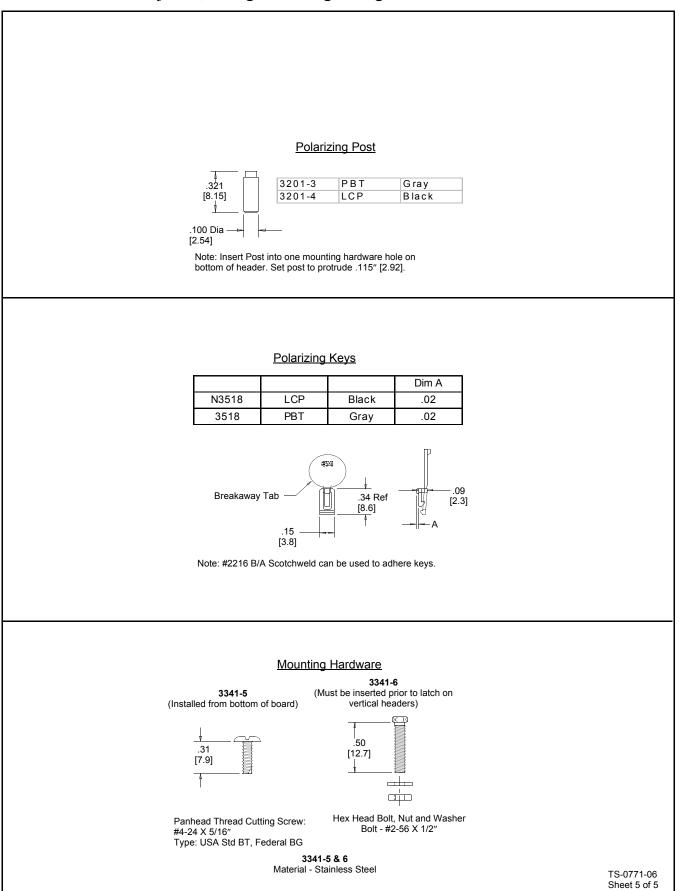
2500 & 3000 Series Shrouded Header						
Total Number of Pins	Number of Tails Kinked	<u>Pc</u>	Positions Kinked			
10	4	3	4	7	8	
14	4	3	4	11	12	
16	4	3	4	13	14	
20	4	3	4	17	18	
24	4	3	4	21	22	
26	4	3	4	23	24	
30	4	5	6	25	26	
34	4	7	8	27	28	
36	4	7	8	27	28	
40	4	7	8	33	34	
50	4	7	8	43	44	
60	4	11	12	49	50	
64	4	11	12	53	54	

Kinked Tail Detail: Kink is located .05" below bottom surface of plastic. External radius of kink toward part centerline.

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3000 Series

3M[™] Three-Wall Header .100″×.100″Latch/Ejector, Straight and Right Angle



EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.



Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称	有毒有害物质或元素 (Hazardous Substances or Elements)						
(Part or Component Name)	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬(Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
端子镀层(contact plating)	×	0	0	0	0	0	
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)							

×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



3M Electronic Solutions Division

6801 River Place Blvd. Austin, TX 78726-9000 800/225-5373 www.3M.com/interconnects