imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

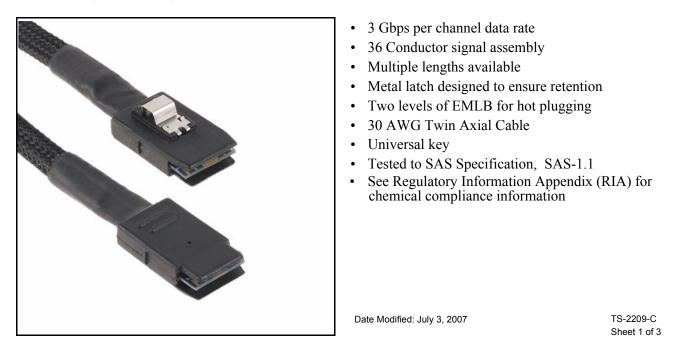
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Physical

Backs	hell

Dackshell	
Material:	High Temperature Thermoplastic
Flammability:	UL 94V-0
Color:	Black
Paddle-card	FR4
Flammability:	UL 94V-0
Plating	
Underplating:	50 μ" min. [1.27 μm] Nickel
Wiping Area:	30 µ" min. [0.76 µm] Gold
Cable	
Wire Size	
Conductor:	30 AWG Solid Tin Plated Solid Conductor
Drain Wire:	30 AWG Solid Tin Plated Solid Conductor
Dielectric:	Foam Polyethylene
Shield:	Mylar 100% Coverrage
Jacket:	Non-PVC
Jacket Braiding	
Material:	Nylon Braid

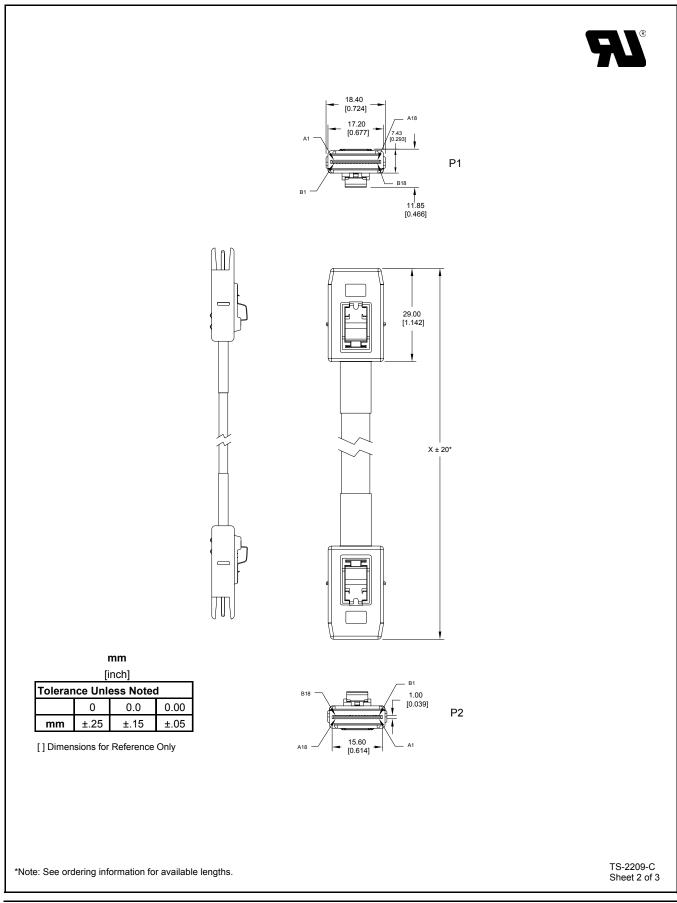
Electrical

Current Rating:Per Contact: 0.5 AInsulation Resistance: $10^3 \text{ M}\Omega \text{ min.}$ Withstanding Voltage: $300 \text{ V}_{DC} \text{ min.}$ for 1 minute

Environmental

Operating Temperature: -20°C to +80°C

UL File No.: E86982



				_	
	P1		Ĩ		
A1	GND	B1	GND	I	E
A2	Rx 0+	B2	Tx 0+	I	E
A3	Rx 0-	B3	Tx 0-	I	E
A4	GND	B4	GND		E
A5	Rx 1+	B5	Tx 1+		E
A6	Rx 1-	B6	Tx 1-		E
A7	GND	B7	GND	I	E
A8	SIDEBAND 7	B8	SIDEBAND 7	I	E
A9	SIDEBAND 3	B9	SIDEBAND 3	I	E
A10	SIDEBAND 4	B10	SIDEBAND 4	I	В
A11	SIDEBAND 5	B11	SIDEBAND 5	I	В
A12	GND	B12	GND	I	В
A13	Rx 2+	B13	Tx 2+	I	В
A14	Rx 2-	B14	Tx 2-	Ĩ	В
A15	GND	B15	GND	Ĩ	В
A16	Rx 3+	B16	Tx 3+	Ī	В
A17	Rx 3-	B17	Tx 3-	Î	В
A18	GND	B18	GND	I	В

	P1		P2
B1	GND	A1	GND
B2	Tx 0+	A2	Rx 0+
B3	Tx 0-	A3	Rx 0-
B4	GND	A4	GND
B5	Tx 1+	A5	Rx 1+
B6	Tx 1-	A6	Rx 1-
B7	GND	A7	GND
B8	SIDEBAND 0	A8	SIDEBAND 0
B9	SIDEBAND 1	A9	SIDEBAND 1
B10	SIDEBAND 2	A10	SIDEBAND 2
B11	SIDEBAND 6	A11	SIDEBAND 6
B12	GND	A12	GND
B13	Tx 2+	A13	Rx 2+
B14	Tx 2-	A14	Rx 2-
B15	GND	A15	GND
B16	Tx 3+	A16	Rx 3+
B17	Tx 3-	A17	Rx 3-
B18	GND	A18	GND

Pinout 1

Backplane-to-Controller

	P1		P2			P1	P2	
A1	GND	B1	GND	Ī	B1	GND	A1	GND
A2	Rx 0+	B2	Tx 0+		B2	Tx 0+	A2	Rx 0+
A3	Rx 0-	B3	Tx 0-		B3	Tx 0-	A3	Rx 0-
A4	GND	B4	GND		B4	GND	A4	GND
A5	Rx 1+	B5	Tx 1+		B5	Tx 1+	A5	Rx 1+
A6	Rx 1-	B6	Tx 1-		B6	Tx 1-	A6	Rx 1-
A7	GND	B7	GND		B7	GND	A7	GND
A8	SIDEBAND 7	B11	SIDEBAND 5		B8	SIDEBAND 0	A11	SIDEBAND 6
A9	SIDEBAND 3	B10	SIDEBAND 4		B9	SIDEBAND 1	A10	SIDEBAND 2
A10	SIDEBAND 4	B9	SIDEBAND 3		B10	SIDEBAND 2	A9	SIDEBAND 1
A11	SIDEBAND 5	B8	SIDEBAND 7		B11	SIDEBAND 6	A8	SIDEBAND 0
A12	GND	B12	GND		B12	GND	A12	GND
A13	Rx 2+	B13	Tx 2+		B13	Tx 2+	A13	Rx 2+
A14	Rx 2-	B14	Tx 2-		B14	Tx 2-	A14	Rx 2-
A15	GND	B15	GND		B15	GND	A15	GND
A16	Rx 3+	B16	Tx 3+		B16	Tx 3+	A16	Rx 3+
A17	Rx 3-	B17	Tx 3-		B17	Tx 3-	A17	Rx 3-
A18	GND	B18	GND		B18	GND	A18	GND

Pinout 2

Controller-to-Controller

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	P1		P2		P1	P2		
A1	GND	B1	GND	B1	GND	A1	GND	
A2	Rx 0+	B2	Tx 0+	B2	Tx 0+	A2	Rx 0+	
A3	Rx 0-	B3	Tx 0-	B3	Tx 0-	A3	Rx 0-	
A4	GND	B4	GND	B4	GND	A4	GND	
A5	Rx 1+	B5	Tx 1+	B5	Tx 1+	A5	Rx 1+	
A6	Rx 1-	B6	Tx 1-	B6	Tx 1-	A6	Rx 1-	
A7	GND	B7	GND	B7	GND	A7	GND	
A12	GND	B12	GND	B12	GND	A12	GND	
A13	Rx 2+	B13	Tx 2+	B13	Tx 2+	A13	Rx 2+	
A14	Rx 2-	B14	Tx 2-	B14	Tx 2-	A14	Rx 2-	
A15	GND	B15	GND	B15	GND	A15	GND	
A16	Rx 3+	B16	Tx 3+	B16	Tx 3+	A16	Rx 3+	
A17	Rx 3-	B17	Tx 3-	B17	Tx 3-	A17	Rx 3-	
A18	GND	B18	GND	B18	GND	A18	GND	

Pinout 3

Backplane-to-Controller (no sidebands)



8N36 - AAXX05 - X.XX (RIA E1 & C1 Apply)

Pin-out: 01 = Backplane-to-Controller 02 = Controller-to-Controller 03 = Backplane-to-Controller, no sidebands Length in meters* 0.25 m 0.50 m 0.75 m 1.00 m

* If other lengths are desired, contact your local 3M sales representative.
** If keying other than Universal is desired, contact your local 3M sales representative.

TS-2209-C Sheet 4 of 4

Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

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.

Appendix E4: 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 decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/17/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.

CHINA Appendix C1: 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 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.

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)							
	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 hazardous substance contained in SJ/T11363-2006.) X:表示该有毒有害物质至少在该部存 hazardous substance contained in requirement in SJ/T11363-2006.) 	all of the 牛的某一均师	homogeneo	us materia 計量超出SJ/	ls for this part T11363-2006 标准规	is below the limi 定的限量要求。(In	t requirement in ndicates that this		

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

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 one (1) year 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.



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