

3M™ Mini Serial Attached SCSI (miniSAS) Cable Assembly

Internal, Signal, Straight Termination

8N36 Series



- 3 Gbps per channel data rate
- 36 Conductor signal assembly
- Multiple lengths available
- Metal latch designed to ensure retention
- Two levels of EMLB for hot plugging
- 30 AWG Twin Axial Cable
- Universal key
- Tested to SAS Specification, SAS-1.1
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: July 3, 2007

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Physical

Backshell

Material: High Temperature Thermoplastic
Flammability: UL 94V-0
Color: Black

Paddle-card FR4

Flammability: UL 94V-0

Plating

Underplating: 50 μ " min. [1.27 μ m] Nickel
Wiping Area: 30 μ " min. [0.76 μ m] 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% Coverage
Jacket: Non-PVC

Jacket Braiding

Material: Nylon Braid

Electrical

Current Rating: Per Contact: 0.5 A
Insulation Resistance: 10³ M Ω min.
Withstanding Voltage: 300 V_{DC} min. for 1 minute

Environmental

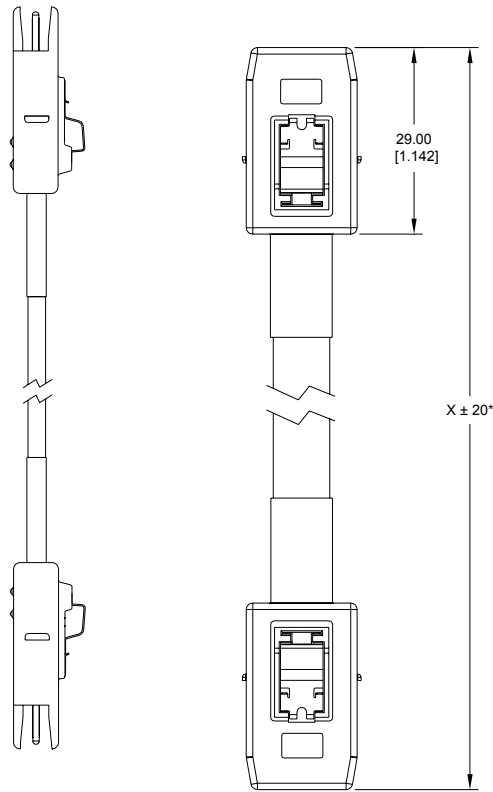
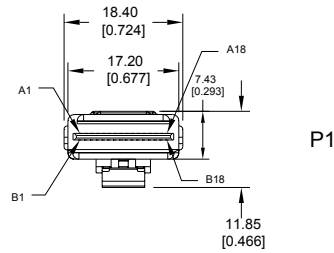
Operating Temperature: -20°C to +80°C

UL File No.: E86982

3M™ Mini Serial Attached SCSI (miniSAS) Cable Assembly

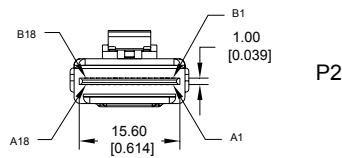
Internal, Signal, Straight Termination

8N36 Series



	mm		
	[inch]		
Tolerance Unless Noted			
	0	0.0	0.00
mm	±.25	±.15	±.05

[] Dimensions for Reference Only



*Note: See ordering information for available lengths.

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3M™ Mini Serial Attached SCSI (miniSAS) Cable Assembly

Internal, Signal, Straight Termination

8N36 Series

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

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

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	A11	SIDEBAND 6
B9	SIDEBAND 1	A10	SIDEBAND 2
B10	SIDEBAND 2	A9	SIDEBAND 1
B11	SIDEBAND 6	A8	SIDEBAND 0
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 2

Controller-to-Controller

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

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
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 3

**Backplane-to-Controller
 (no sidebands)**

Ordering Information

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.

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.

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 (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)	×	○	○	○	○	○
○: 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 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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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренеспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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