

3M™ Mini-Clamp II Socket

Designed for Wiring Supplied from Europe and North America
2 mm, IDC, Wiremount, Optional Latch

373 Series



- Designed to accommodate typical wiring specifications per Europe and North America suppliers.
- Easy, quick and reliable IDC termination
- Integrated cable retention
- Design accepts multiple wire size diameter
- No special tooling needed
- Latch helps enable rugged field termination
- Compact design saves board space
- High number of mating cycles
- RoHS compliant as declared in Regulatory Information Appendix notes E1 & C1

Date Modified:3/10/2008

TS-2234-D
Sheet 1 of 4

Physical

Insulation

Material: Glass Reinforced Thermoplastic Body & Lower Cover, Transparent Thermoplastic Cover
Flammability: UL 94V-0
Color: Black Body, Cover – White & Color (see Table 1)

Contact

Material: Copper Alloy

Plating

Underplating: 1.27-2.54 μm [50-100 μ''] Nickel
Wiping Area: 0.2 μm [8 μ''] Minimum Gold with Lubricant
IDC: 2.0-7.62 μm [80-300 μ''] Matte Tin

Wire Accomodation: Copper Alloy, 7-19 Bare and Tinned Strands, 0.14-0.50 mm², 20-26 AWG

Wire Insulation: Flexible Vinyl, Semi-Flexible Vinyl, Polyethylene, X-Linked Polyethylene, or PTFE
For approved cables contact your local sales representative

Marking: 3M Logo, Position Indicator, Wire gauge, Insulator Material

Electrical

Current Rating: 3.0 Amps

Voltage Rating: 32 Volts

Insulation Resistance: $>1 \times 10^6 \Omega$ at 600 V_{DC}

Withstanding Voltage: 1000 V_{RMS} at Sea Level

Environmental

Temperature Ratings: -20°C to 85°C

UL File No: E68080

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

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call your local sales representative

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No Latch

| # Positions | Dim A |
|-------------|------------|
| 3 | 13.8 [.54] |
| 4 | 15.8 [.62] |

Before Termination 8.2 [.32]

After Termination 6.4 [.25]

| Wire OD | 1.6 ~ 2.0 [.063~.079] | 1.2 ~ 1.6 [.047~.063] | 1.0 ~ 1.2 [.039~.047] | 0.8 ~ 1.0 [.031~.039] |
|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Part # | A206 | A165 | A124 | |
| 0.25-0.50 mm ² | | | | |
| 20-24 AWG | | | | |
| Cover Color | Gray | Blue | Green | |
| Part # | | B163 | B122 | B101 |
| 0.14-0.25 mm ² | | | | |
| 24-26 AWG | | | | |
| Cover Color | | Orange | Yellow | Red |

mm
[inch]

| Tolerance Unless Noted | |
|------------------------|----------|
| .0 | .00 |
| mm | ±.1 ±.10 |

[] Dimensions for Reference Only

Ordering Information

373XX-XXXX-00E-MB

Positions
03 or 04

Wire AWG & OD:
 AXXX = 0.25-0.50 mm²
 20-24 AWG
 BXXX = 0.14-0.25 mm²
 24-26 AWG
 Wire OD – see Table 1

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

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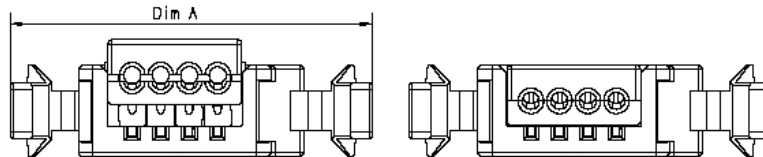
373 Series

With Latch

| # Positions | Dim A |
|-------------|------------|
| 3 | 23.4 [.92] |
| 4 | 25.4 [1.0] |



Notes: Latch version for panel mounting
See page 4 for panel cutout



See „No Latch“ for other dimensions

Table 2

| Wire OD | 1.6 ~ 2.0 [.063~.079] | 1.2 ~ 1.6 [.047~.063] | 1.0 ~ 1.2 [.039~.047] | 0.8 ~ 1.0 [.031~.039] |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| Part # 0.25-0.50 mm ² 20-24 AWG Cover Color | A206 Gray | A165 Blue | A124 Green | |
| Part # 0.14-0.25 mm ² 24-26 AWG Cover Color | | B163 Orange | B122 Yellow | B101 Red |

mm
[inch]

| Tolerance Unless Noted | |
|------------------------|-----|
| | .00 |
| mm | ±.1 |

[] Dimensions for Reference Only

Ordering Information

373XX-XXXX-OPE-MB

Positions
03 or 04

Wire AWG & OD:
AXXX = 0.25-0.50 mm²
20-24 AWG
BXXX = 0.14-0.25 mm²
24-26 AWG
Wire OD – see Table 2

Note: Terminate using common pliers or 3M™ Scotchlok™ Crimping Tools E-9BM or E-9E

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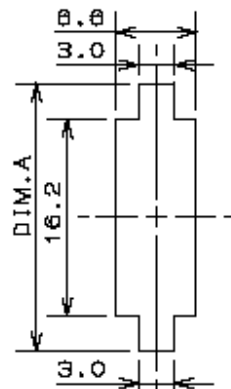
373 Series

| Panel Thickness | Dimension A | Dimension B |
|------------------|-------------|-------------|
| t = 1.0 & 1.2 mm | 22.0 | 20.0 |
| t = 1.4 & 1.6 mm | 22.4 | 20.4 |

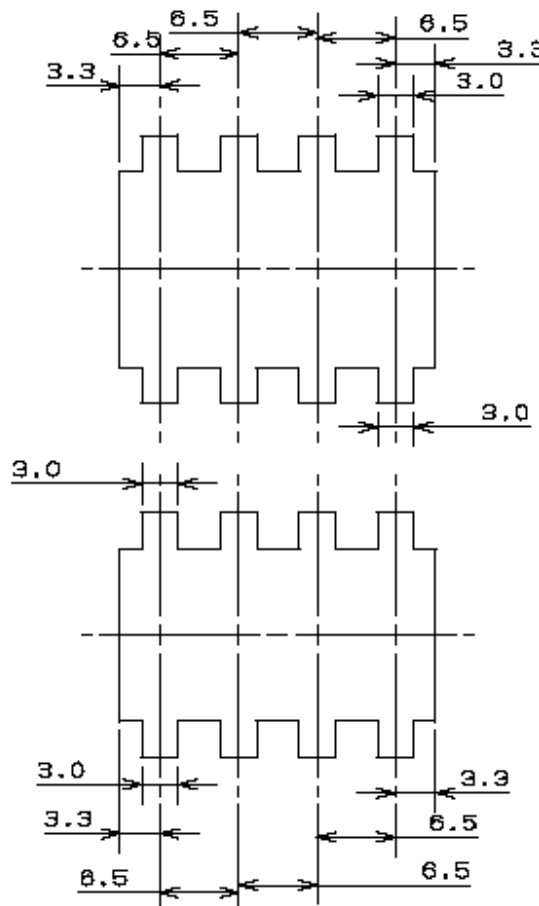
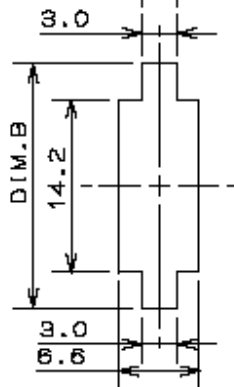
Single Mounting

Multiple Mounting

37304-XXXX-OP0 FL
Wire Mount Socket 4P



37303-XXXX-OP0 FL
Wire Mount Socket 3P



Panel Cutouts

TS-2234-D
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.

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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 2005/717/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 E5: European Union RoHS

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

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

“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.

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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.) | | | | | | |

Appendix C3: 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.

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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) |
| 合金(Metal alloy) | × | ○ | ○ | ○ | ○ | ○ |
| | | | | | | |
| <p>○: 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.)</p> <p>×: 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.)</p> | | | | | | |

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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

«JONHON» (основан в 1970 г.)

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