



| 3M 3749-20 Cable |                  |
|------------------|------------------|
| Wire #           | Pin Attachment # |
| 01               | Ground Layer     |
| 02               | B01 - B02        |
| 03               | B01 - B02        |
| 04               | B01 - B02        |
| 05               | B01 - B02        |
| 06               | B01 - B02        |
| 07               | B01 - B02        |
| 08               | Ground Layer     |
| 09               | B05              |
| 10               | B06              |
| 11               | Ground Layer     |
| 12               | B08              |
| 13               | B08              |
| 14               | B09              |
| 15               | B10              |
| 16               | B10              |
| 17               | Ground Layer     |
| 18               | B11              |
| 19               | Ground Layer     |
| 20               | B12              |

| 3M SL8802 Cable |                  |
|-----------------|------------------|
| Wire #          | Pin Attachment # |
| GND             | Ground Layer     |
| pr_01           | B14              |
| pr_01           | B15              |
| pr_02           | B17              |
| pr_02           | Ground Layer     |
| pr_03           | B19              |
| pr_03           | B20              |
| pr_04           | B23              |
| pr_04           | B24              |
| GND             | Ground Layer     |
| pr_05           | B27              |
| pr_05           | B28              |
| pr_06           | B30              |
| pr_06           | B31              |
| pr_07           | B33              |
| pr_07           | B34              |
| GND             | Ground Layer     |
| pr_08           | B37              |
| pr_08           | B38              |
| pr_09           | B41              |
| pr_09           | B42              |
| pr_10           | B45              |
| pr_10           | B46              |
| pr_11           | B48              |
| pr_11           | Ground Layer     |
| GND             | Ground Layer     |

| PCI-Express X8 Pin-Out |                     |                          |       |
|------------------------|---------------------|--------------------------|-------|
| Pin #                  | Side B Description  | Side A Description       | Pin # |
| B01                    | +12 volt power      | Hot plug presence detect | A01   |
| B02                    | +12 volt power      | +12 volt power           | A02   |
| B03                    | +12 volt power      | +12 volt power           | A03   |
| B04                    | Ground              | Ground                   | A04   |
| B05                    | SMBus clock         | TCK                      | A05   |
| B06                    | SMBus data          | TDI                      | A06   |
| B07                    | Ground              | TD0                      | A07   |
| B08                    | +3.3 volt power     | TMS                      | A08   |
| B09                    | +TRST#              | +3.3 volt power          | A09   |
| B10                    | 3.3v volt power     | +3.3 volt power          | A10   |
| B11                    | Link Reactivation   | Power Good               | A11   |
| Mechanical Key         |                     |                          |       |
| B12                    | Reserved            | Ground                   | A12   |
| B13                    | Ground              | Reference Clock          | A13   |
| B14                    | Transmitter Lane 0, | Differential pair        | A14   |
| B15                    | Differential pair   | Ground                   | A15   |
| B16                    | Ground              | Receiver Lane 0,         | A16   |
| B17                    | Hotplug detect      | Differential pair        | A17   |
| B18                    | Ground              | Ground                   | A18   |
| B19                    | Transmitter Lane 1, | Reserved                 | A19   |
| B20                    | Differential pair   | Ground                   | A20   |
| B21                    | Ground              | Receiver Lane 1,         | A21   |
| B22                    | Ground              | Differential pair        | A22   |
| B23                    | Transmitter Lane 2, | Ground                   | A23   |
| B24                    | Differential pair   | Ground                   | A24   |
| B25                    | Ground              | Receiver Lane 2,         | A25   |
| B26                    | Ground              | Differential pair        | A26   |
| B27                    | Transmitter Lane 3, | Ground                   | A27   |
| B28                    | Differential pair   | Ground                   | A28   |
| B29                    | Ground              | Receiver Lane 3,         | A29   |
| B30                    | Reserved            | Differential pair        | A30   |
| B31                    | Hot plug detect     | Ground                   | A31   |
| B32                    | Ground              | Reserved                 | A32   |
| B33                    | Transmitter Lane 4, | Reserved                 | A33   |
| B34                    | Differential pair   | Ground                   | A34   |
| B35                    | Ground              | Receiver Lane 4,         | A35   |
| B36                    | Ground              | Differential pair        | A36   |
| B37                    | Transmitter Lane 5, | Ground                   | A37   |
| B38                    | Differential pair   | Ground                   | A38   |
| B39                    | Ground              | Receiver Lane 5,         | A39   |
| B40                    | Ground              | Differential pair        | A40   |
| B41                    | Transmitter Lane 6, | Ground                   | A41   |
| B42                    | Differential pair   | Ground                   | A42   |
| B43                    | Ground              | Receiver Lane 6,         | A43   |
| B44                    | Ground              | Differential pair        | A44   |
| B45                    | Transmitter Lane 7, | Ground                   | A45   |
| B46                    | Differential pair   | Ground                   | A46   |
| B47                    | Ground              | Receiver Lane 7,         | A47   |
| B48                    | Hot plug detect     | Differential pair        | A48   |
| B49                    | Ground              | Ground                   | A49   |

| 3M 3749-20 Cable |        |
|------------------|--------|
| Pin Attachment # | Wire # |
| Ground Layer     | 01     |
| A01              | 02     |
| Ground Layer     | 03     |
| A02 - A03        | 04     |
| A02 - A03        | 05     |
| A02 - A03        | 06     |
| A02 - A03        | 07     |
| Ground Layer     | 08     |
| A05              | 09     |
| A06              | 10     |
| A07              | 11     |
| A08              | 12     |
| Ground Layer     | 13     |
| A09 - A10        | 14     |
| A09 - A10        | 15     |
| A09 - A10        | 16     |
| A09 - A10        | 17     |
| Ground Layer     | 18     |
| Ground Layer     | 19     |
| A11              | 20     |

| 3M SL8802 Cable  |        |
|------------------|--------|
| Pin Attachment # | Wire # |
| Ground Layer     | GND    |
| A13              | pr_01  |
| A14              | pr_01  |
| A16              | pr_02  |
| A17              | pr_02  |
| Ground Layer     | pr_03  |
| A19              | pr_03  |
| A21              | pr_04  |
| A22              | pr_04  |
| Ground Layer     | GND    |
| A25              | pr_05  |
| A26              | pr_05  |
| A29              | pr_06  |
| A30              | pr_06  |
| A32              | pr_07  |
| A33              | pr_07  |
| Ground Layer     | GND    |
| A35              | pr_08  |
| A36              | pr_08  |
| A39              | pr_09  |
| A40              | pr_09  |
| A43              | pr_10  |
| A44              | pr_10  |
| A47              | pr_11  |
| A48              | pr_11  |
| Ground Layer     | GND    |

THIS IS A FEED THROUGH ASSEMBLY. THE PIN ASSIGNMENTS REMAIN THE SAME ON BOTH ENDS.

|                           |                                 |  |      |                            |      |      |
|---------------------------|---------------------------------|--|------|----------------------------|------|------|
| DESIGN REFERENCE          | NEXT ASSEMBLY                   | REV  | ECO  | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
|                           |                                 | DRP  | DATE | MFG                        | DATE | DATE |
|                           |                                 | CHKD   | DATE | APPRV                      | DATE | DATE |
| DIVISION                  | DIVISION CODE                   |  |      |                            |      |      |
| DO NOT SCALE DRAWING      | SCALE 1/1                       | TOLERANCES EXCEPT AS NOTED<br>INCHES<br>.00 ±<br>.000 ±<br>.0000 ±       |      |                            |      |      |
| THIRD ANGLE PROJECTION    | INTERPRET PER ASME Y14.5 - 2009 | MILLIMETERS<br>0 ± 1<br>.0 ± .5<br>.00 ± .05<br>.000 ± .005              |      |                            |      |      |
| MAX SURFACE ROUGHNESS 125 | ALL SURFACES MARKED ONLY        | TITLE<br><b>8KH3-0734-XXXX, CABLE ASSY, MALE PCIE X8 TO MALE PCIE X8</b> |      |                            |      |      |
|                           |                                 | CAGE NUMBER  | SIZE | DRAWING NO.                | REV. |      |
|                           |                                 | D  |      | 78-5100-2569-1             | C    |      |
|                           |                                 | MODEL  |      |                            |      |      |
|                           |                                 |  |      |                            |      |      |

78-5100-2569-1  
 DRAWING NUMBER  
 C  
 REVISION  
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 Standard Time 1/3/2018 UTC OffSet  
 Imaged: C.3 Central

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|---------------------------|---|----------------------------|---|----------------------------|---|------------|
| DESIGN REFERENCE          | NEXT ASSEMBLY   | REV                        | ECO   | ISSUE DATE AND DESCRIPTION | DRFT  | CHKD       |
|                           |   |                            |   |                            |   |            |
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| THIRD ANGLE PROJECTION    | INTERPRET PER ASME Y14.5 - 2009   | MILLIMETERS 0 ± 1          | TITLE<br><b>8KH3-0734-XXXX, CABLE ASSY, MALE PCIE X8 TO MALE PCIE X8</b>  |                            |   |            |
| MAX SURFACE ROUGHNESS 125 | <input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY | ANGLES ± 1°                | CAGE NUMBER   | SIZE                       | DRAWING NO.   | REV.       |
|                           |   |                            | D   | 78-5100-2569-1             | C   |            |
|                           |   |                            | MODEL   | DET                        | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | SHT 3 OF 3 |

78-5100-2569-1  
 DRAWING NUMBER  
 C  
 REVISION  
 A  
 Standard Time 1/3/2018 UTC OffSet