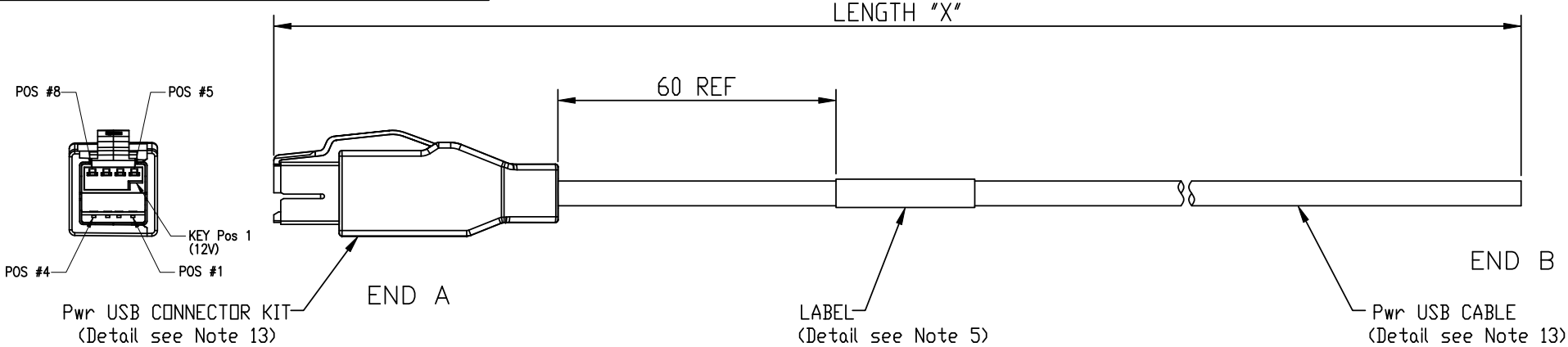


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| FCI PART NO.       | POWER TYPE | LENGTH "X" |
|--------------------|------------|------------|
| 10084088-Z0050YYLF | 12V        | 500+25/-0  |
| 10084088-Z0100YYLF | 12V        | 1000±15    |
| 10084088-Z0300YYLF | 12V        | 3000±25    |
| 10084088-Z0500YYLF | 12V        | 5000±25    |



| PIN ASSIGNMENT |             |            |          |       |
|----------------|-------------|------------|----------|-------|
| END A          | SIGNAL NAME | WIRE COLOR | WIRE AWG | END B |
| 1              | VBUS (+5V)  | RED        | 20       | -     |
| 2              | DATA -      | WHITE      | 28       | -     |
| 3              | DATA +      | GREEN      | 28       | -     |
| 4              | GND         | BLACK      | 20       | -     |
| 5              | 12V GND     | BLUE       | 20       | -     |
| 6              | +12V        | BROWN      | 20       | -     |
| 7              | +12V        | ORANGE     | 20       | -     |
| 8              | 12V GND     | YELLOW     | 20       | -     |
| SHELL          | FRAME GND   | -          | SHIELD   | -     |

|                                       |    |                                                                                 |                |          |    |           |                                                                                       |                     |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
|---------------------------------------|----|---------------------------------------------------------------------------------|----------------|----------|----|-----------|---------------------------------------------------------------------------------------|---------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------|--------------|-------------|-----------|
| -                                     |    | Mark with<br>10075076001<br>REV. proj_revision<br>in area indicated<br>by X.... | Material       |          |    | Spec ref  |                                                                                       | spec_ref            |                                                    | projection<br> | MM<br> |           |              |             |           |
| -                                     |    |                                                                                 | Mat code       |          |    | surface   |                                                                                       | tolerance           |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
| -                                     |    |                                                                                 | Heattreat      |          |    | ISO 1302  |                                                                                       | ISO 406<br>ISO 1101 |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
|                                       |    |                                                                                 | Plating/Finish |          |    |           |                                                                                       |                     |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
|                                       |    |                                                                                 | rev            | ecn no   | dr | date      | Dr                                                                                    | Sunny Tsai          | 10/11/2007                                         | size                                                                                                |                                                                                             | A3        | Scale<br>-   |             |           |
|                                       |    |                                                                                 | A              | N08-0120 | ST | 6/18/2008 | Eng                                                                                   | Sunny Tsai          | 10/11/2007                                         | Product family                                                                                      |                                                                                             |           |              | CABLE ASS'Y |           |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |    |                                                                                 | -              | -        | -  | -         | Chr                                                                                   | Jackson Wang        | 10/11/2007                                         | Model Name                                                                                          |                                                                                             | ECN       |              |             |           |
|                                       |    |                                                                                 | -              | -        | -  | -         | Appr                                                                                  | Jackson Wang        | 10/11/2007                                         | Model Revision                                                                                      |                                                                                             | REL Level |              |             |           |
| LINEAR                                |    |                                                                                 | -              | -        | -  | -         |  | title               | SINGLE END POWER USB 12V<br>CABLE ASSEMBLY - BLACK |                                                                                                     |                                                                                             | dwg no    | 10084088     |             | Rev.<br>A |
|                                       |    |                                                                                 | -              | -        | -  | -         |                                                                                       |                     |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
|                                       |    |                                                                                 | -              | -        | -  | -         |                                                                                       |                     |                                                    |                                                                                                     |                                                                                             |           |              |             |           |
| ANGULAR                               | 0° | ±2°                                                                             | -              | -        | -  | -         | Pro/E file                                                                            | catalog no          |                                                    |                                                                                                     | CUSTOMER DWG                                                                                |           | sheet 1 of 3 |             |           |

REV F - 2006-04-17

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|                                                                                                                                                               |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|
| 1                                                                                                                                                             |  | 2           |  | 3                                                                                                                                                                                                                                                                                      |  | 4 |  |
| FCI PART NO.                                                                                                                                                  |  | SEE SHEET 1 |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| NOTES:                                                                                                                                                        |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| 1. MATES WITH FCI PART NUMBER: 55917/57496.                                                                                                                   |  |             |  | 7. UNLESS OTHERWISE SPECIFIED ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED BY APPLYING 300V DC FOR MINIMUM OF 10ms, UNLESS ACTIVE COMPONENTS ARE USED IN THIS ASSEMBLY.                                                                                                            |  |   |  |
| 2. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE=<br>=< 1 METER= ±15.0mm<br>> 1 METER TO 10 METER= ±2% OF L1 OR L2<br>> 10 METER= +0%/-4% OF L1 OR L2 |  |             |  | 8. OTHER TESTING PERFORMED AS REQUIRED:<br>DIELECTRIC RESISTANCE: 50M Ohms MIN.<br>CONNECTION RESISTANCE: 0.8 Ohms MAX. (-Z0050YYLF, 0.5MR LENGTH)<br>1.0 Ohms MAX. (-Z0100YYLF, 1.0MR LENGTH)<br>1.2 Ohms MAX. (-Z0300YYLF, 3.0MR LENGTH)<br>1.8 Ohms MAX. (-Z0500YYLF, 5.0MR LENGTH) |  |   |  |
| 3. PART NUMBER SCHEME FOR CABLE ASSEMBLY:<br>10084088 - Z X X X X Y Y LF                                                                                      |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| LF: LEAD FREE                                                                                                                                                 |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| NOT APPLICABLE TO THIS ASSEMBLY                                                                                                                               |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| NOT APPLICABLE TO THIS ASSEMBLY                                                                                                                               |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| LENGTH (XX: METERS; XX: CENTIMETERS)<br>EXAMPLE FOR LENGTH GIVEN BELOW:<br>0050: 00 METERS 50 CENTIMETERS                                                     |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| WIRE GAGE<br>Z: MULTIPLE WIRE GAGE                                                                                                                            |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| 4. UNLESS OTHERWISE SPECIFIED LABEL POSITION SHALL BE APPROXIMATELY 60mm FROM REAR OF CONNECTOR.                                                              |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| 5. UNLESS OTHERWISE SPECIFIED STANDARD LABEL SHALL BE BRADY LABEL P/N THT-10-427-30.<br>LABEL DETAILS:                                                        |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| FCI<br>10084088-ZXXXXYYLF<br>REV.A<br>WWYY<br>MADE IN CHINA                                                                                                   |  |             |  | ----MANUFACTURER CODE OR NAME<br>----FCI P/N<br>----REVISION<br>----DATE CODE WWYY FORMAT<br>----COUNTRY ORIGIN                                                                                                                                                                        |  |   |  |
| 6. ALL CABLE ASSEMBLIES SHALL BE TESTED 100% FOR CONTINUITY AS DEFINED IN WIRING LIST.                                                                        |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |
| Mark with<br>10075076001<br>REV. prai_revision<br>in area indicated<br>by X....                                                                               |  |             |  | Material<br>Mat code<br>Heattreat<br>Plating/Finish                                                                                                                                                                                                                                    |  |   |  |
| rev ecn no dr date                                                                                                                                            |  |             |  | Spec ref spec_ref<br>surface tolerance projection MM<br>ISO 1302 ISO 406 ISO 1101                                                                                                                                                                                                      |  |   |  |
| - See sheet 1 - -                                                                                                                                             |  |             |  | Dr Sunny Tsai 10/11/2007 size A3 Scale -                                                                                                                                                                                                                                               |  |   |  |
| - - - -                                                                                                                                                       |  |             |  | Eng Sunny Tsai 10/11/2007 Product family CABLE ASS'Y                                                                                                                                                                                                                                   |  |   |  |
| - - - -                                                                                                                                                       |  |             |  | Chr Jackson Wang 10/11/2007 Model Name ECN                                                                                                                                                                                                                                             |  |   |  |
| - - - -                                                                                                                                                       |  |             |  | Appr Jackson Wang 10/11/2007 Model Revision REL Level                                                                                                                                                                                                                                  |  |   |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                                         |  |             |  | FCI title SINGLE END POWER USB 12V CABLE ASSEMBLY - BLACK dwg no 10084088 Rev. A                                                                                                                                                                                                       |  |   |  |
| LINEAR                                                                                                                                                        |  |             |  | Pro/E file catalog no CUSTOMER DWG sheet 2 of 3                                                                                                                                                                                                                                        |  |   |  |
| ANGULAR 0° ±2°                                                                                                                                                |  |             |  |                                                                                                                                                                                                                                                                                        |  |   |  |

SEE SHEET 1

### 13. COMPONENT DETAIL

A) Pwr USB CONNECTOR KIT:

| MATERIALS                          | SPECIFICATIONS                                                                                             |
|------------------------------------|------------------------------------------------------------------------------------------------------------|
| SHELLS                             | HIGH STRENGTH COPPER ALLOY                                                                                 |
| HOUSINGS                           | THERMOPLASTIC UL94V-0 RATED, COLOR: TEAL                                                                   |
| TERMINALS                          | HIGH STRENGTH COPPER ALLOY                                                                                 |
| COVERS                             | THERMOPLASTIC UL94V-0 RATED<br>PEBBLE GRAY                                                                 |
| PLATING                            |                                                                                                            |
| SHELL                              | UNDERPLATE; 40 MICROINCHES NI<br>100 MICROINCHES MIN BRIGHT TIN                                            |
| TERMINALS                          | UNDERPLATE; 40 MICROINCHES NI<br>CONTACT AREA; 30 MICROINCHES GXT<br>TAIL AREA; 100 MICROINCHES MATTED TIN |
| ELECTRICAL                         |                                                                                                            |
| VOLTAGE RATING                     | USB;5.25VDC,+POWER;12VDC                                                                                   |
| DIELECTRIC WITHSTANDING<br>VOLTAGE | 750 VAC                                                                                                    |
| INSUL. RESISTANCE                  | 1000 MEG OHMS AT 500 VDC                                                                                   |
| CURRENT RATING(NOTE 1)             | 1.50A USB SECTION<br>3.00A POWER SECTION                                                                   |

B) Pwr USB CABLE:

SPEC: 28AWG\*1P+20AWG\*6C+AL/MYLAR+DRAIN+BRAID

1) UL TYPE: CM

CSA TYPE: CMG

2) CONSTRUCTION:

| ITEM       |           | SPECIFICATIONS                               |               |
|------------|-----------|----------------------------------------------|---------------|
| CONDUCTOR  | AWG       | 28AWG                                        | 20AWG         |
|            | MATERIAL  | TINNED COPPER                                | TINNED COPPER |
|            | COND.SIZE | 7/0.127mm                                    | 19/0.20mm     |
| INSULATION | MATERIAL  | HD-PE                                        | SR-PVC        |
|            | OD        | 0.80±0.05mm                                  | 1.5±0.05mm    |
|            | NO.       | 1PAIR                                        | 6C            |
| AL/MYLAR   | COVERAGE  | 100%                                         |               |
|            | OVERLAP   | 25% Min.                                     |               |
| DRAIN      | AWG       | 28AWG                                        |               |
|            | MATERIAL  | TINNED COPPER                                |               |
|            | COND.SIZE | 7/0.127mm                                    |               |
| BRAID      | MATERIAL  | TINNED COPPER                                |               |
|            | SIZE      | 16/7/0.10mm                                  |               |
| JACKET     | MATERIAL  | PVC                                          |               |
|            | OD        | 6.50±0.25mm                                  |               |
|            | COLOR     | BLACK<br>(OTHER COLORS AVAILABLE ON REQUEST) |               |

## ELECTRICAL CHARACTERISTICS

| RATING                                | RATING: TEMP 80°C VOLTAGE 30V  |
|---------------------------------------|--------------------------------|
| Conductor Resistance<br>at 20°C (MAX) | 28AWG < 237.25 Ωm/KM           |
|                                       | 20AWG < 34.6 Ωm/KM             |
| IMPEDANCE (Differential)              | 90 Ωm±15%; at TDR              |
| DELAY                                 | < 26ns/Cable; at TDR           |
| SKEW                                  | 100ps MAX.                     |
| ATTENUATION                           | Refer to USB 2.0 Specification |

Mark with  
10075076001  
REV. proj\_revision  
in area indicated  
by X....

[illegible]

| TOLERANCES UNLESS OTHERWISE SPECIFIED |    |     |
|---------------------------------------|----|-----|
| LINEAR                                |    |     |
|                                       |    |     |
|                                       |    |     |
| ANGULAR                               | 0° | ±2° |

|                                                                                       |              |                                                          |                                                                                                   |  |                 |             |                                                                                       |   |
|---------------------------------------------------------------------------------------|--------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|-----------------|-------------|---------------------------------------------------------------------------------------|---|
| Material                                                                              |              |                                                          | Spec ref                                                                                          |  | spec_ref        |             |                                                                                       |   |
| Mat code                                                                              |              |                                                          | surface                                                                                           |  | tolerance       |             | projection                                                                            |   |
| Heatreat                                                                              |              |                                                          | <br>ISO 1302 |  | ISO 406         |             |  |   |
| Plating/Finish                                                                        |              |                                                          |                                                                                                   |  | ISO 1101        |             |  |   |
| Dr                                                                                    | Sunny Tsai   | 10/11/2007                                               |                                                                                                   |  |                 | size        | Scale                                                                                 |   |
| Eng                                                                                   | Sunny Tsai   | 10/11/2007                                               | Product family                                                                                    |  |                 | CABLE ASS'Y | A3                                                                                    | - |
| Chr                                                                                   | Jackson Wang | 10/11/2007                                               | Model Name                                                                                        |  |                 | ECN         |                                                                                       |   |
| Appr                                                                                  | Jackson Wang | 10/11/2007                                               | Model Revision                                                                                    |  |                 | REL Level   |                                                                                       |   |
|  |              | title SINGLE END POWER USB 12V<br>CABLE ASSEMBLY - BLACK |                                                                                                   |  | dwg no 10084088 |             | Rev A                                                                                 |   |
| Pro/E file                                                                            |              | catalog no                                               |                                                                                                   |  | CUSTOMER DWG    |             | sheet 3 of 3                                                                          |   |

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