

1

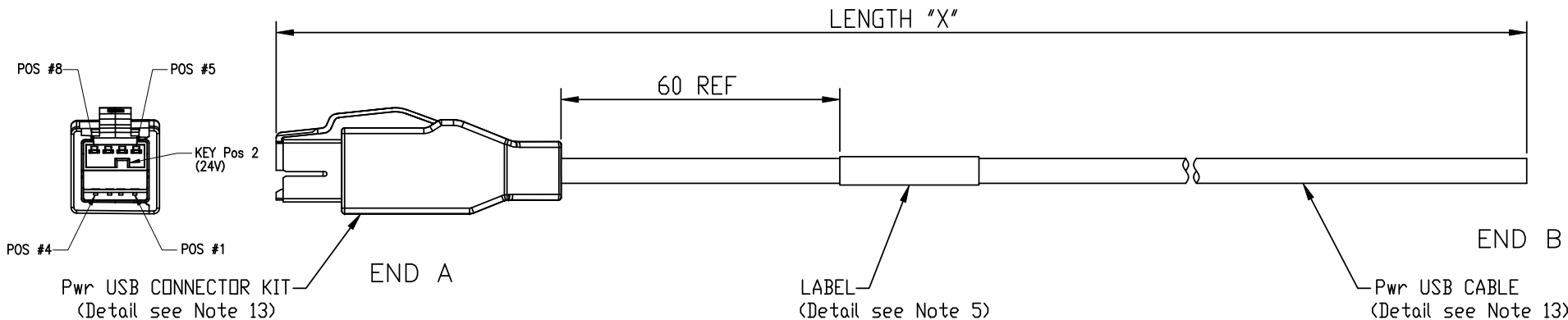
2

3

4

FCI PART NO.	POWER TYPE	LENGTH "X"
10084089-Z0050YYLF	24V	500+25/-0
10084089-Z0100YYLF	24V	1000±15
10084089-Z0300YYLF	24V	3000±25
10084089-Z0500YYLF	24V	5000±25

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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	24V GND	BLUE	20	-
6	+24V	BROWN	20	-
7	+24V	ORANGE	20	-
8	24V GND	YELLOW	20	-
SHELL	FRAME GND	-	SHIELD	-

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rev	ecn no	dr	date
A	N08-0120	ST	6/18/2008

Material		Spec ref	spec_ref	
Mat code	Heatreat	surface	tolerance	projection
Plating/Finish		ISO 1302	ISO 406 ISO 1101	MM
Dr Sunny Tsai	10/11/2007		size	Scale
Eng Sunny Tsai	10/11/2007	Product family	A3	-
Chr Jackson Wang	10/11/2007	Model Name	ECN	
Appr Jackson Wang	10/11/2007	Model Revision	REL Level	
FCI		title	no	Rev.
Pro/E file		SINGLE END POWER USB 24V CABLE ASSEMBLY - BLACK	10084089	A
catalog no		CUSTOMER DWG	sheet 1 of 3	

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

REV F - 2006-04-17

2

3 PDM: Rev:A

STATUS Released

Printed: Jul 10, 2009

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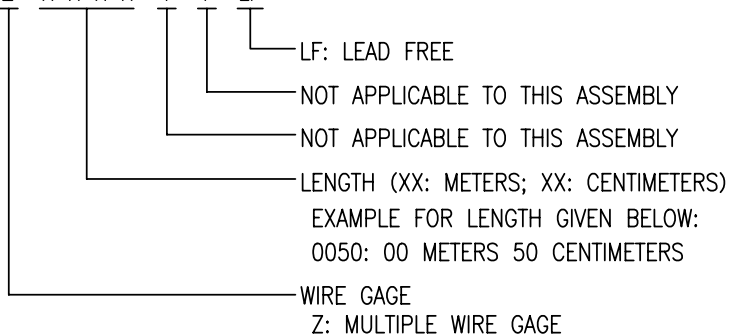
FCI PART NO. SEE SHEET 1

NOTES:

- 1. MATES WITH FCI PART NUMBER: 55917/57496.
- 2. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE=
  - =< 1 METER= ±15.0mm
  - > 1 METER TO 10 METER= ±2% OF L1 OR L2
  - > 10 METER= +0%/-4% OF L1 OR L2

3. PART NUMBER SCHEME FOR CABLE ASSEMBLY:

10084089 - Z X X X X Y Y LF



- 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.

LABEL DETAILS:

FCI	---	MANUFACTURER CODE OR NAME
10084089-ZXXXXYYLF	---	FCI P/N
REV.A	---	REVISION
WWYY	---	DATE CODE WWYY FORMAT
MADE IN CHINA	---	COUNTRY ORIGIN

- 6. ALL CABLE ASSEMBLIES SHALL BE TESTED 100% FOR CONTINUITY AS DEFINED IN WIRING LIST.

- 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.
- 8. OTHER TESTING PERFORMED AS REQUIRED:
  - DIELECTRIC RESISTANCE: 50M Ohms MIN.
  - CONNECTION RESISTANCE: 0.8 Ohms MAX. (-Z0050YYLF, 0.5MR LENGTH)
  - 1.0 Ohms MAX. (-Z0100YYLF, 1.0MR LENGTH)
  - 1.2 Ohms MAX. (-Z0300YYLF, 3.0MR LENGTH)
  - 1.8 Ohms MAX. (-Z0500YYLF, 5.0MR LENGTH)
- 9. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.
- 10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 11. CONNECTOR ASSEMBLIES SHOWN ARE FOR REFERENCE ONLY AND MAY NOT SHOWN ALL PART DETAIL, REFERENCE CONNECTOR ASSEMBLY DRAWINGS FOR COMPLETE DETAILS.
- 12. PACKAGE: EACH CABLE ASSEMBLY IN CLDEAR ZIP-LOCK BPLY BAG, THEN BULK PACKED IN A BOX.

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Material			Spec ref		spec_ref	
Mat code			surface	tolerance	projection	MM
Heat/treat			ISO 1302	ISO 406		← →
Plating/Finish				ISO 1101		
Dr	Sunny Tsai	10/11/2007	Product family		size	Scale
Eng	Sunny Tsai	10/11/2007	CABLE ASS'Y		A3	-
Chr	Jackson Wang	10/11/2007	Model Name		ECN	
Appr	Jackson Wang	10/11/2007	Model Revision		REL Level	
FCI			title		dwg no	Rev.
			SINGLE END POWER USB 24V CABLE ASSEMBLY - BLACK		10084089	A
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FCI PART NO. SEE SHEET 1

NOTES:

13. COMPONENT DETAIL

A) Pwr USB CONNECTOR KIT:

MATERIALS	SPECIFICATIONS
SHELLS	HIGH STRENGTH COPPER ALLOY
HOUSINGS	THERMOPLASTIC UL94V-0 RATED, COLOR: RED
TERMINALS	HIGH STRENGTH COPPER ALLOY
COVERS	THERMOPLASTIC UL94V-0 RATED PEBBLE GRAY
PLATING	
SHELL	UNDERPLATE; 40 MICROINCHES NI 100 MICROINCHES MIN BRIGHT TIN
TERMINALS	UNDERPLATE; 40 MICROINCHES NI CONTACT AREA; 30 MICROINCHES GXT TAIL AREA; 100 MICROINCHES MATTED TIN
ELECTRICAL	
VOLTAGE RATING	USB;5.25VDC,+POWER;24VDC
DIELECTRIC WITHSTANDING VOLTAGE	750 VAC
INSUL. RESISTANCE	1000 MEG OHMS AT 500 VDC
CURRENT RATING(NOTE 1)	1.50A USB SECTION 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 (OTHER COLORS AVAILABLE ON REQUEST)	

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

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FCI	title	SINGLE END POWER USB 24V CABLE ASSEMBLY - BLACK		Rev. A
Pro/E file	catalog no	10084089	CUSTOMER DWG	sheet 3 of 3

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ANGULAR	0°	±2°	