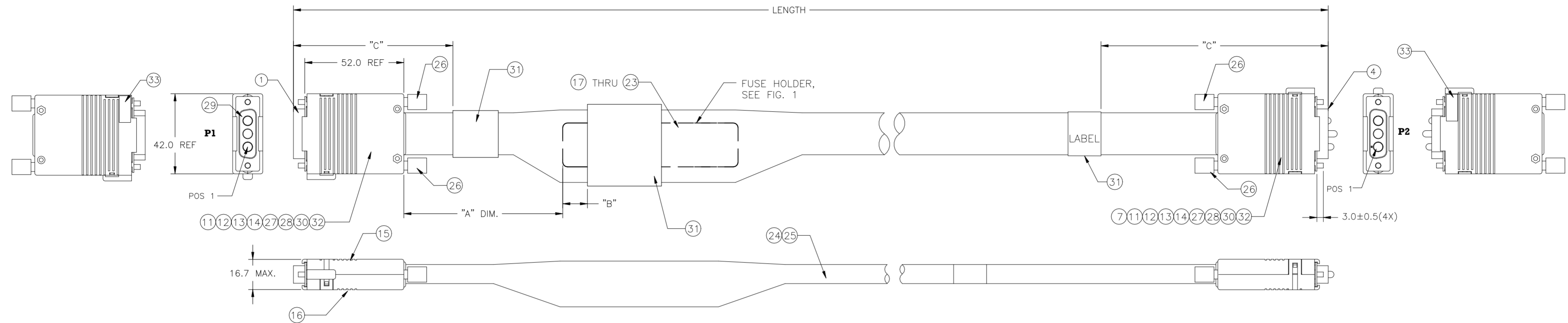
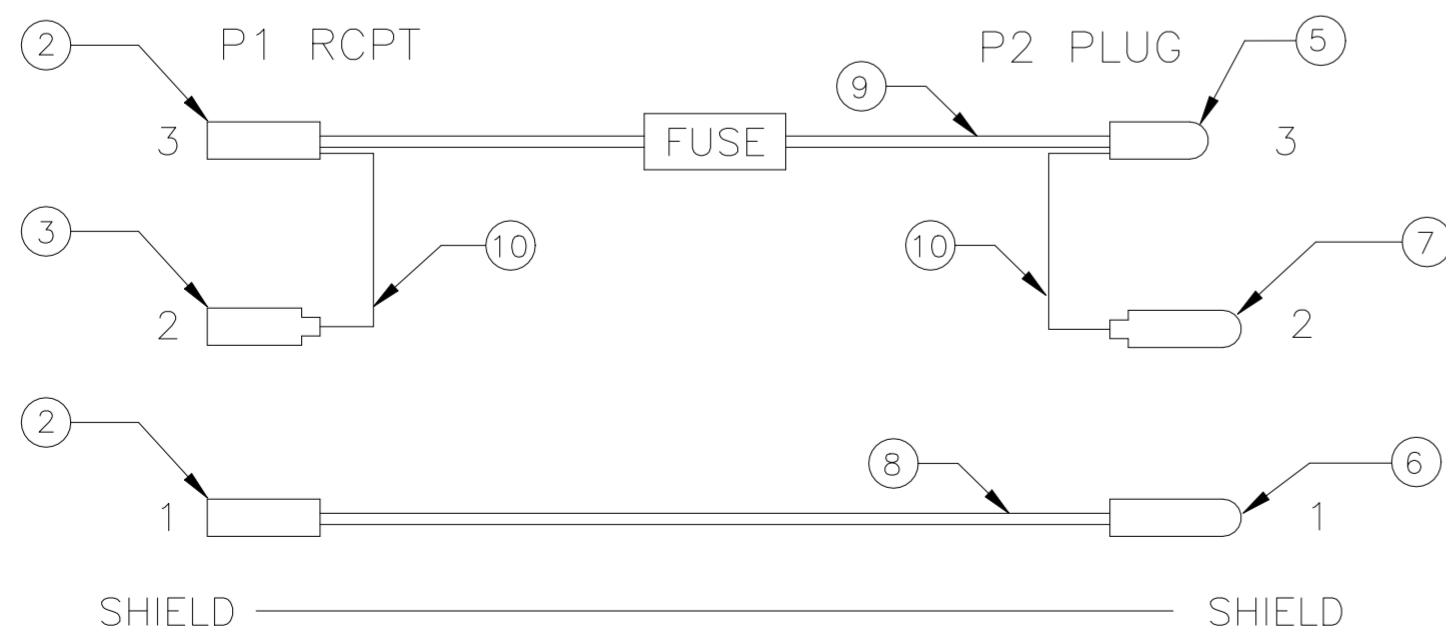


REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
J		REVISED PER ECN-22-156124	22AUG2022	AP	YX



380±10	-	3435+75/-5 [135.2+2.95/-0.20]	520±35.0 [20.5±1.37]	2163990-4	00E6365	L37816
-	10±5	1980+40/-5 [77.9+1.57/-0.20]	520±35.0 [20.5±1.37]	2163990-3	00E6364	L37816
-	10±5	800.0+20.0/-5.0 [31.5+.79/-0.20]	75.0+10.0/-5.0 [2.95+.40/-0.20]	2163990-2	00E6363	L37816
-	10±5	510.0+20.0/-5.0 [20.08+.79/-0.20]	75.0+10.0/-5.0 [2.95+.40/-0.20]	2163990-1	00E6362	L37816
"C"	"B"	LENGTH mm [IN]	"A" DIM mm [IN]	TE P/N	IBM P/N	IBM EC

PIN ASSIGNMENT:



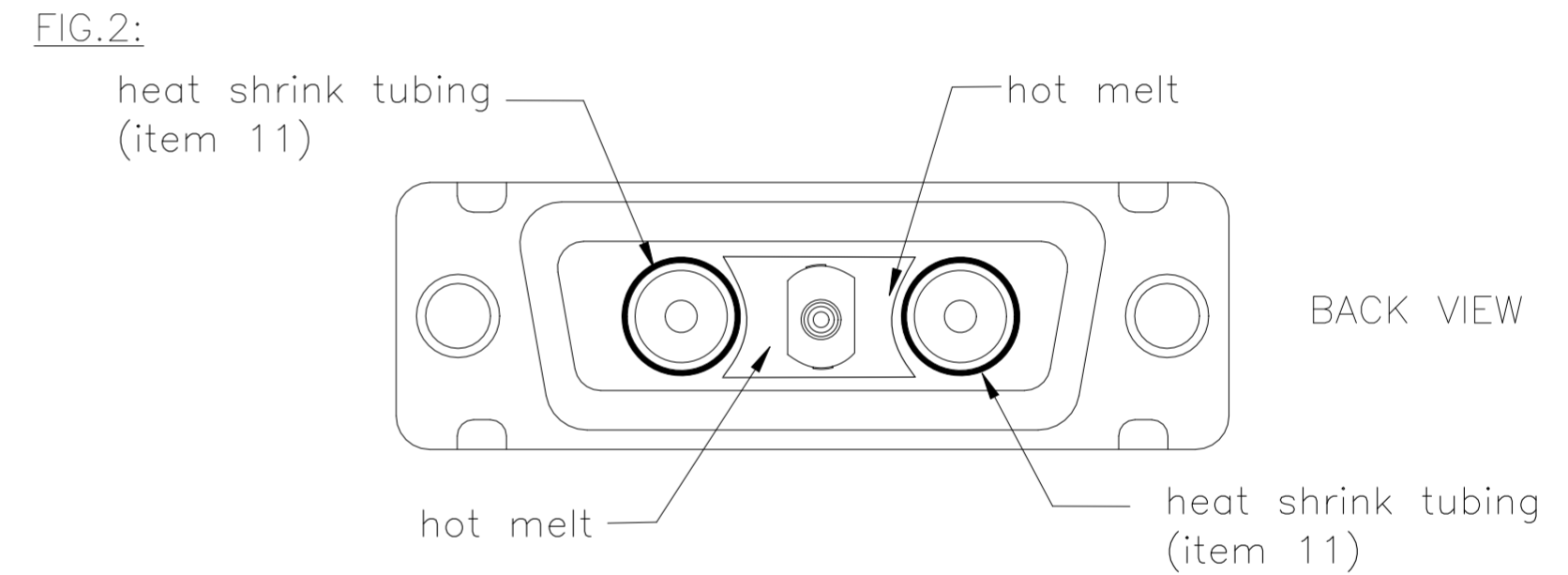
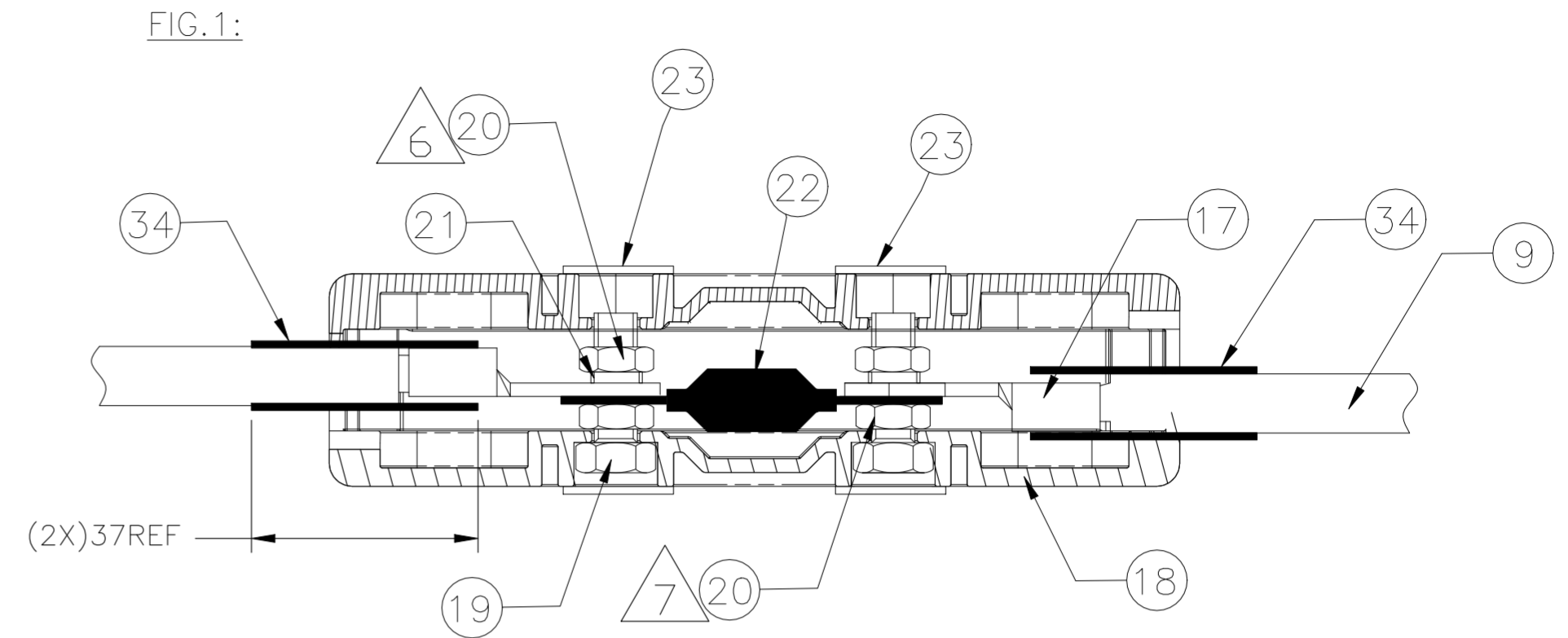
QTY	UNIT	DESCRIPTION	ITEM	IBM P/N			
75	75	75	75	MM	ADHESIVE HEAT SHRINK TUBING	34	NR
2	2	2	2	PC	BLACK LABEL WITH WHITE PRINT, 6*9MM, TEXT: DOWN	33	NR
2	2	2	2	G	HOT MELT; UL94V-0 RATED; 3M TYPE 3779	32	NR
2	1	1	1	PC	WRAP LABEL, BARCODE, 150mm* 50mm, white: 50mm* 25mm,	31	NR
160	160	160	160	MM	KAPTON TAPE, 0.0027" THICK,	30	NR
1	1	1	1	PC	INSULATORS COVER, POLYCARBONATE, 0.53mm Thk. TE PN 1760932-3	29	00E7164
4	4	4	4	PC	NUT, HEX, M2X0.4X16, STEEL, NICKEL PLATE, MEETS DIN 934 and ISO 4032 STYLE 1	28	NR
4	4	4	4	PC	SCREW, FLAT HEAD, M2X.4X16, STEEL, NICKEL PLATE, MEETS DIN 965A A2.	27	NR
4	4	4	4	PC	JACKSCREW, 2mm HEX, 4-40 THREAD, STEEL, TE PN 2135002-1	26	74Y6382
3.54	2.03	.84	.58	MR	FLEX SLEEVE, 19MM, ZHENKAI 3250720191-8W2	25	21P7940
3.54	2.03	.84	.58	MR	BRAID, 0.75", FLAT, CONTINENTAL CORDAGE BRD-20478	24	NR
.35	.35	.35	.35	MR	ADHESIVE SHRINK TUBE, ID: 32MM, BLACK.	23	NR
1	1	1	1	PC	FUSE, 80A, 58V, LITTELFUSE BF1-58V pn 142.5631.5802	22	74Y6384
2	2	2	2	PC	SPLIT WASHER, M5, SUS303 ST STL PASSIVATED, TE PN 1-1760068-8	21	NR
4	4	4	4	PC	NUT, M5x.8x2.7, SUS303 ST STL PASSIVATED, TE PN 1-1760068-7	20	NR
2	2	2	2	PC	SCREW, HEX HEAD, M5X.8X16, 304 STAINLESS STEEL, PASSIVATED, MEETS DIN 933 A2.	19	NR
2	2	2	2	PC	FUSE BOX, TE 2127714-1	18	74Y6385
2	2	2	2	PC	RING TERMINAL, TE 52197	17	74Y8040
2	2	2	2	PC	BACKSHELL, TOP, TE 2127713-2	16	74Y6386
2	2	2	2	PC	BACKSHELL, BOTTOM, TE 2127713-1	15	74Y6387
.005	.005	.005	.005	KG	SOLDER, LEAD-FREE, 99.3 SN, 0.7 CU	14	NR
155	155	155	155	MM	COPPER FOIL, CONDUCTIVE ADHESIVE. WIDTH: 42MM.	13	NR
.025	.025	.025	.025	KG	POLYPROPYLENE, WHITE, UL94V-0	12	NR
80	80	80	80	MM	HEAT SHRINK TUBE, 600V, VW-1, ID: 10MM	11	NR
90	90	90	90	MM	WIRE, 18 AWG, UL1015, 16/30 STRAND, BLACK	10	74Y6388
3.54	2.03	.84	.58	MR	UL10070 WIRE, 6 AWG RED, TE 4-1760136-6	9	74Y6389
3.54	2.03	.84	.58	MR	UL10070 WIRE, 6 AWG BLACK, TE 4-1760136-5	8	74Y6390
1	1	1	1	PC	PIN CONTACT, LONG, 18 AWG, TE 1986617-2	7	74Y6391
1	1	1	1	PC	PIN CONTACT, LONG, 6 AWG, TE 1986605-2	6	74Y6392
1	1	1	1	PC	PIN CONTACT, SHORT, 6 AWG, TE 1986605-1	5	74Y6393
1	1	1	1	PC	PLUG CONNECTOR, 3 POS, TE 5-448153-4	4	74Y6394
1	1	1	1	PC	SOCKET CONTACT, 18 AWG, TE 1986615-1	3	74Y6395
2	2	2	2	PC	SOCKET CONTACT, 6 AWG, TE 1986611-1	2	74Y6396
1	1	1	1	PC	RECEPTACLE CONNECTOR, 3 POS, TE 445705-7	1	74Y6397
-4	-3	-2	-1	U/M			

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	05MAY2011	LEON YEN	
DIMENSIONS: mm		CHK	05MAY2011	Biddle, James N.	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	05MAY2011	Biddle, James N.	
0 PLC ± -		PRODUCT SPEC		NAME	
1 PLC ± -		APPLICATION SPEC		CABLE ASSEMBLY, BPE-DCA W/ JACKSCREWS	
2 PLC ± -		WEIGHT	-	SIZE	A2
3 PLC ± -		CUSTOMER DRAWING		CAGE CODE	00779
4 PLC ± -		SCALE	NTS	DRAWING NO	C=2163990
ANGLES ± -		SHEET	1 of 3	RESTRICTED TO	-
FINISH		REV	J		

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

NOTES: UNLESS OTHERWISE SPECIFIED

- CABLE ID LABEL PER IBM SPEC. 878235; IBM DRAWING 44L0008.
FOR 2163990-1/-2/-3, USE 1 LABEL TO WRAP AROUND THE FUSE HOLDER AREA AS SHOWN.
FOR 2163990-4, 2 LABELS ON EACH ASSEMBLY POSITIONED AT 380±10 mm FROM THE ENDS OF THE ASSEMBLIES.
11S BARCODES PER IBM SPEC. 73F9240:
For 00E6362: 11S00E6362YL10SYymdsss
For 00E6363: 11S00E6363YL10SYymdsss
For 00E6364: 11S00E6364YL10SYymdsss
For 00E6365: 11S00E6365YL10SYymdsss
 - INDIVIDUALLY BAG AND LABEL PER IBM PACKAGING GUIDELINES 31L5154.
 - TEST PER IBM SPECIFICATION 878235 SECTION 16.3.2.
A. CONTINUITY: 5 OHMS SENSITIVITY
B. SHORTS: 1 KOHM MIN SENSITIVITY
C. HIPOT (DIELECTRIC WITHSTANDING VOLTAGE & INSULATION RESISTANCE TEST PER IPC 620A - Class 2.
DWV: 1000 VDC / 1mA Max. Leakage Current / 0.1 Sec Dwell
IR FOR 2163990-1, -2, -3 (EXCLUDE SHIELD): 1000 VDC / 100 Mohm min. / 0.1 Sec Dwell
IR FOR 2163990-4 (EXCLUDE SHIELD): 1000 VDC / 10 Mohm min. / 0.1 Sec Dwell
RESULTS MAY BE AFFECTED IF RELATIVE HUMIDITY IN MANUFACTURING ENVIRONMENT IS > 80%.
D. SHIELD RESISTANCE: 1 OHMS MAX
 - THIS ASSEMBLY COMPLIES WITH IBM SPECIFICATIONS 46G3772 AND 97P3864.
 - BRAID (Item 24) MUST BE SOLDERED 360 DEGREE AROUND COPPER TAPE.
DO NOT CUT AWAY ANY BRAID ON THE SIDES.
- ⚠️ FUSE ASSEMBLY TOP NUTS (SEE FIG.1) SHOULD BE TIGHTENED 4.0 TO 4.5 LBS.FT(5.42-6.10 N.M).
⚠️ FUSE ASSEMBLY BOTTOM NUTS (SEE FIG.1) SHOULD BE TIGHTENED 1.2 TO 1.7 LBS.FT(1.63-2.30 N.M).
⚠️ COVER CRIMP BARREL WITH HEAT SHRINK TUBING, THE TUBING IS WITHIN 0.25±0.15MM TO THE CONNECTOR HOUSING. SEE FIG.2 FOR ORIENTATION OF THE CONTACTS. USE MATING FIXTURE TO KEEP CONTACTS CENTERED, THEN APPLY HOT MELT (ITEM 32) TO SECURE THE ORIENTATION. HOT MELT MUST FILL GAP BETWEEN 6 AWG HEAT SHRINK TUBING AND 18 AWG TERMINAL.
- HOT MELT FLEX BRAID (Item 25) to BRAID (Item 24) INSIDE OF BACKSHELL.
WIRE/BRAID/FLEX BRAID MUST MEET 22 LBS (98 N) AXIAL PULL STRAIN RELIEF WITHOUT MOVEMENT OF WIRES OR FLEX BRAID END PULLING OUT OF BACKSHELL.
 - RED WIRE / FUSEHOLDER SUBASSEMBLY MUST BE 7.0mm±2MM LONGER THAN BLACK WIRE FOR MINIMIZING STRAIN ON FUSEHOLDER AND FUSE.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	LEON YEN	05MAY2011		CABLE ASSEMBLY, BPE-DCA W/ JACKSCREWS				
DIMENSIONS:		CHK	Biddle, James N.	05MAY2011		NAME	-			
mm		APVD	Biddle, James N.	05MAY2011		PRODUCT SPEC	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC		WEIGHT	A2	00779	C=2163990	-
MATERIAL		FINISH		WEIGHT	-	SCALE	NTS	SHEET	2 OF 3	
-		-		CUSTOMER DRAWING	SCALE	NTS	SHEET	2 OF 3	REV	
									J	


P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

IBM DRAWING 74Y5246 NOTES

NOTES:

1. THIS PART/ASSEMBLY MUST COMPLY WITH:
 - (A) IBM SPECIFICATION 97P3864 - COMPLIANCE REQUIREMENTS FOR THE EUROPEAN UNION DIRECTIVE ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT FOR IBM PRODUCTS AND
 - (B) IBM SPECIFICATION 46G3772 - BASELINE ENVIRONMENTAL REQUIREMENTS FOR SUPPLIER DELIVERABLES TO IBM. SUPPLIER MUST COMPLETE AND FORWARD A PRODUCT CONTENT DECLARATION OR IBM APPROVED INDUSTRY STANDARD FORM AS PART OF THE FIRST ARTICLE INSPECTION PROCESS
 - (C) IBM SPECIFICATION 97P4412 - ANTI-SMOKE. CABLE MUST MEET REQUIREMENTS OF IBM ANTI-SMOKE SPECIFICATION 97P4412 SECTIONS 2.2, 2.3, 2.6 #10, 2.8 #s 6/8/11, 3.3 #s 2/4/7/8/9, 3.6, and 3.8.1 #12
 - (D) IBM SPECIFICATION 0878235 - CABLE ASSEMBLY BUILD, TEST, MARK AND LABELING
2. THE MANUFACTURER SHALL NOTIFY IBM PRIOR TO CHANGES IN MANUFACTURING, LOCATION, DESIGN, MATERIAL, OR PROCESS, AND SHALL OBTAIN WRITTEN ACCEPTANCE FROM IBM BEFORE MAKING ANY CHANGES. THIS DOES NOT REQUIRE THE MANUFACTURER TO REVEAL ANY PROPRIETARY INFORMATION.
3. THE MANUFACTURING PROCESS MAY INCLUDE HAZARDOUS OPERATIONS AND REQUIRE SPECIAL HEALTH AND/OR SAFETY PRECAUTIONS.
4. FOR QUALIFICATION CABLE ASSEMBLY MUST MEET REQUIREMENT OF IBM ENGINEERING SPECIFICATION 93H8400.
5. BUILD, TEST, LABEL, AND PACKAGE PER IBM ENGINEERING SPECIFICATION 0878235 AND TEST PER IBM ENGINEERING SPECIFICATION 51H8805. SERIALIZATION REQUIRED.
6. CABLE ASSEMBLY MUST BE A UL RECOGNIZED WIRING HARNESS. THIS ASSEMBLY SHALL BE MANUFACTURED BY A UL CERTIFIED CABLE MANUFACTURER USING UL APPROVED MATERIALS. UL RECOGNITION MARKING IS REQUIRED ON THE ASSEMBLY OR ON THE SMALLEST UNIT CONTAINER IN WHICH THE ASSEMBLY IS PACKAGED.
7. THIS ASSEMBLY SHALL BE MANUFACTURED BY A CSA CERTIFIED CABLE MANUFACTURER USING CSA APPROVED MATERIALS. SHIPPING CONTAINERS SHALL BEAR THE APPROPRIATE CSA CERTIFICATION LABELS.
8. PER LABEL REF DRAWING 44L0008:
 - * PRINT P/N AND SERIAL NO.
 - (DATE OF MANUFACTURE REQUIRED IF NOT INCLUDED IN SERIAL NO.)
 - * PRINT MADE IN COUNTRY, MANUFACTURE, EC NO.
 - * PRINT 11S DATA IN BARCODE FORMAT
 - * APPLY LABEL AROUND MIDDLE OF BRAID SLEEVE
9. CONNECTORS MUST MEET REQUIREMENT OF IBM ENGINEERING SPECIFICATION 34L4233.
10. CONNECTORS MUST BE UL RECOGNIZED PER UL 1977 AND CSA APPROVED. UL RECOGNITION DOCUMENTATION MUST BE MAINTAINED BY CONNECTOR MANUFACTURER.
11. TRACEABILITY TO DATE OF MANUFACTURE, AT THE COMPONENT LEVEL, MUST BE PROVIDED AND MAINTAINED BY THE MANUFACTURER. DATE CODE AND/OR LOT NUMBER TO BE ON THE CONNECTOR BODY IF POSSIBLE.
12. FOR QUALIFICATION, CONNECTOR MUST MEET LEVEL P REQUIREMENTS OF IBM ENGINEERING SPECIFICATION 31L3533 AFTER 10 PRECONDITIONING PLUG CYCLES WITH THE SAME MATING CONNECTOR. PRECONDITIONING PLUG CYCLES EQUALS LIFE EXPECTANCY CYCLES.
13. ALL PLASTIC MATERIALS MUST HAVE A UL RECOGNIZED FLAME CLASS OF V-1 OR BETTER. ALL WIRING MUST BE UL RECOGNIZED APPLIANCE WIRING MATERIAL (AWM). ALL WIRING, INSULATION, AND HEAT SHRINK TUBING MUST HAVE A UL FLAME CLASS OF VW-1 AND (EXCEPT FOR HEAT SHRINK TUBING AND FLAT RIBBON CABLE) BE SURFACE MARKED FOR TRACEABILITY. ALL TAPE MUST BE UL LISTED OR RECOGNIZED.
14. QUALIFICATION OF INITIAL SUPPLIER PART NUMBER NOTED BELOW MAY NOT BE COMPLETE. CONSULT APPROVED SUPPLIER LIST, GENERATED FROM THE IBM CORPORATE SUPPLIER DATABASE, OR IBM PROCUREMENT FOR CURRENT APPROVED SOURCES.
INITIAL SUPPLIER: TYCO, FOR P/N INFORMATION SEE TABLE ON SHEET 2, DRAWING NUMBER - C-2163990 (MODIFIED)

- ①5 IBM CABLE PN'S ARE ROLLING AT THIS EC LEVEL TO ADDRESS PROCESS ISSUES AT SUPPLIER.
- | | | |
|---------|---|---------|
| OLD PN | - | NEW PN |
| 74Y8321 | - | 00E6362 |
| 74Y8322 | - | 00E6363 |
| 74Y8323 | - | 00E6364 |
| 74Y8324 | - | 00E6365 |

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	LEON YEN	05MAY2011	 TE Connectivity Ltd.	
DIMENSIONS:		CHK	Biddle, James N.	05MAY2011		
mm		APVD	Biddle, James N.	05MAY2011		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC				
0 PLC	± -	APPLICATION SPEC			NAME	CABLE ASSEMBLY, BPE-DCA W/ JACKSCREWS
1 PLC	± -				SIZE	A2
2 PLC	± -				CAGE CODE	00779
3 PLC	± -				DRAWING NO	C=2163990
4 PLC	± -				RESTRICTED TO	-
ANGLES	± -				SCALE	NTS
MATERIAL	FINISH	WEIGHT			SHEET	3 of 3
-	-	CUSTOMER DRAWING			REV	J