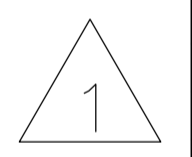


GENERAL NOTES: UNLESS OTHERWISE SPECIFIED

1. ITEM NUMBERS IN PARTS LIST DO NOT CORRESPOND WITH ITEM NUMBER ON ATTACHED CUSTOMER PRINT.
2. DIMENSIONS ON IBM DRAWING ARE IN MILLIMETERS.
3. LABEL PER IBM SPEC. 73F9240; SECTION 4.1.1; FIGURE 1b. AND LABEL REF. DWG 21P4465. ADD FOLLOWING BARCODE INFORMATION TO LABEL: 11S42R4056YL102YYMDSSS
4. ELECTRICAL TEST FOR CONTINUITY, SHORTS, OPENS AND HI-POT PER IBM SPECIFICATION 878235 SECTION 16.3.5 HARNESS AND 4-WIRE TEST REQUIRED FOR IBM PRINT NOTE #5.
5. THIS ASSEMBLY COMPLIES WITH IBM SPECIFICATIONS 46G3772 AND 53P6233. SOLDER IS LEAD BASED AND IS EXEMPTED UNDER THE SERVER EXEMPTION.
6. SOLDER MUST BE LEAD BASED. NO-LEAD SOLDER AND PROCESSES ARE NOT APPROVED FOR USE ON THIS ASSEMBLY.



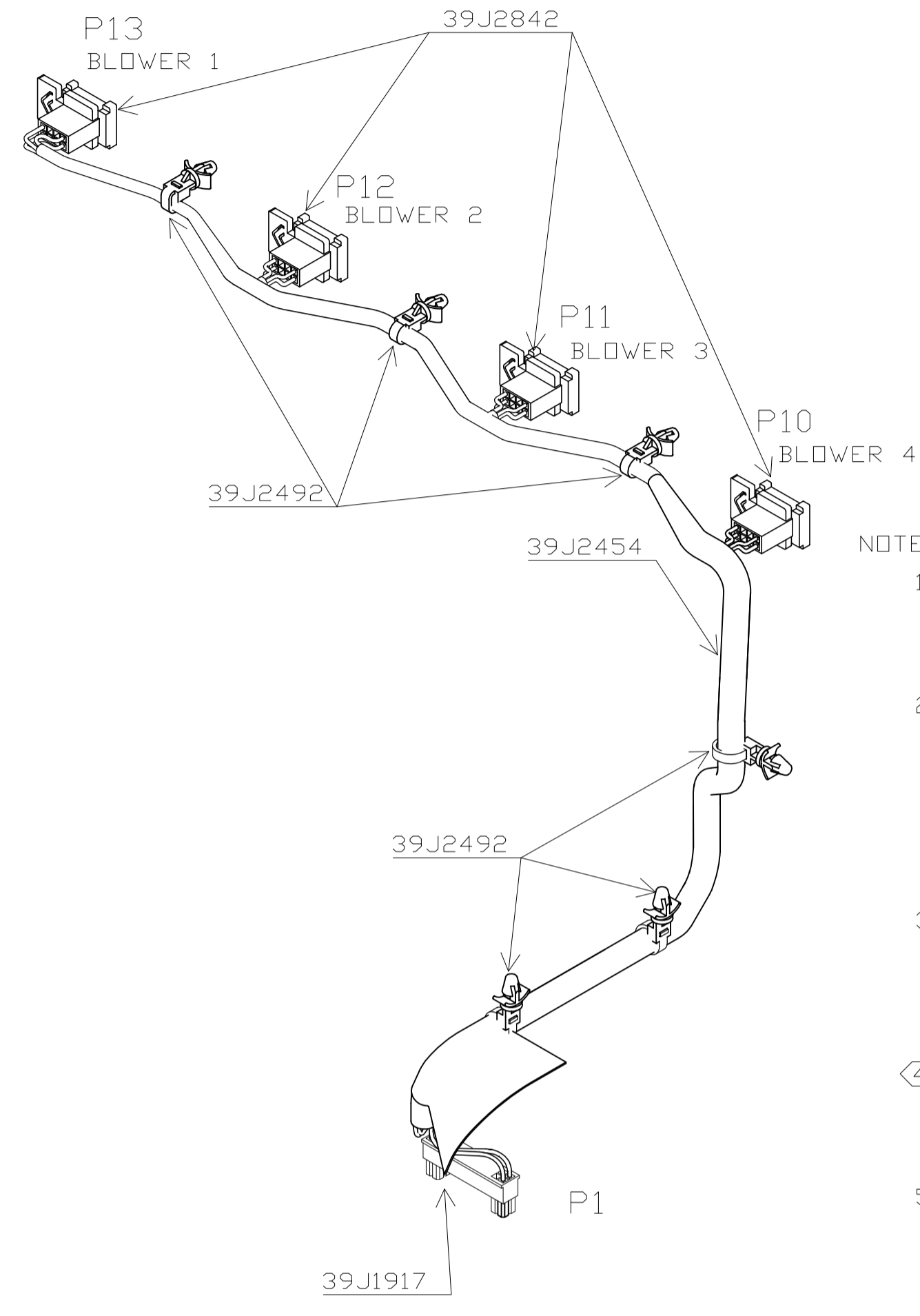
A/R	LB	SOLDER, 63Sn/37Pb	13
0.46	FT	FLEX BRAID,1/4INCH	12
1.00	PC	LABEL,BARCODE	11
0.60	FT	TAPE	10
2.07	FT	FLEX BRAID,EXPANDABLE,3/8 IN.	9
6	PC	CABLE TIE, WHT, RICHCO	8
5	PC	LABEL,WHITE, 6*6mm	7
24	PC	TERMINAL,CRIMP FEMALE,MOLEX	6
1	PC	HOUSING,RECPT,24 POSN,MOLEX	5
38.00	FT	WIRE,7X32 STR,24 AWG,UL1061,BLK	4
15.20	FT	WIRE,7X28 STR,20 AWG,UL1007,BLK	3
28	PC	TERMINALS,MALE CRIMP,MOLEX	2
4	PC	HOUSING,MICRO-FIT,PLUG,MOLEX	1
-1	U/M	SPECIFICATION	ITEM

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN EDDIE WANG 15MAR06	 Tyco Electronics Corporation Harrisburg, Pa 17105-3608
DIMENSIONS: mm		CHK J. BIDDLE 15MAR06	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD J. BIDDLE 15MAR06	NAME
0. PLC ± - 1. PLC ± - 2. PLC ± - 3. PLC ± - 4. PLC ± - ANGLES ± -		PRODUCT SPEC	CABLE ASSEMBLY, SYSTEMS BLOWERS (IBM 42R4056)
MATERIAL		WEIGHT	SIZE A1 00779
FINISH		RESTRICTED TO	SCALE 1:1 SHEET 1 OF 3 REV B
CUSTOMER DRAWING		DRAWING NO 6653266	

WIRE CHART				
WIRE #	P1	P13	DESCRIPTION	WIRE AWG
WIRE 1	PIN 1	PIN 1	+12.0V, BLOWER 1	20
WIRE 2	PIN 2	PIN 2	SPEED SENSE BLOWER 1	24
WIRE 3	PIN 3	PIN 3	GND,BLOWER 1	20
WIRE 4	PIN 13	PIN 4	FAULT LED ANODE,BLOWER 1	24
WIRE 5	PIN 14	PIN 5	FAULT LED CATHODE,BLOWER 1	24
WIRE 6	NONE	PIN 6,5	⊗ JUMPER TO BLOWER 1, PIN 5	24
WIRE 7	PIN 15	PIN 7	BLOWER PRESENT,BLOWER 1	24
		PIN 8	NO CONNECT	
WIRE #	P1	P12	DESCRIPTION	
WIRE 8	PIN 4	PIN 1	+12.0V, BLOWER 2	20
WIRE 9	PIN 5	PIN 2	SPEED SENSE BLOWER 2	24
WIRE 10	PIN 6	PIN 3	GND,BLOWER 2	20
WIRE 11	PIN 16	PIN 4	FAULT LED ANODE,BLOWER 2	24
WIRE 12	PIN 17	PIN 5	FAULT LED CATHODE,BLOWER 2	24
WIRE 13	NONE	PIN 6,5	⊗ JUMPER TO BLOWER 2, PIN 5	24
WIRE 14	PIN 18	PIN 7	BLOWER PRESENT,BLOWER 2	24
		PIN 8	NO CONNECT	
WIRE #	P1	P11	DESCRIPTION	
WIRE 15	PIN 7	PIN 1	+12.0V, BLOWER 3	20
WIRE 16	PIN 8	PIN 2	SPEED SENSE BLOWER 3	24
WIRE 17	PIN 9	PIN 3	GND,BLOWER 3	20
WIRE 18	PIN 19	PIN 4	FAULT LED ANODE,BLOWER 3	24
WIRE 19	PIN 20	PIN 5	FAULT LED CATHODE,BLOWER 3	24
WIRE 20	NONE	PIN 6,5	⊗ JUMPER TO BLOWER 3, PIN 5	24
WIRE 21	PIN 21	PIN 7	BLOWER PRESENT,BLOWER 3	24
		PIN 8	NO CONNECT	
WIRE #	P1	P10	DESCRIPTION	
WIRE 22	PIN 10	PIN 1	+12.0V, BLOWER 4	20
WIRE 23	PIN 11	PIN 2	SPEED SENSE BLOWER 4	24
WIRE 24	PIN 12	PIN 3	GND,BLOWER 4	20
WIRE 25	PIN 22	PIN 4	FAULT LED ANODE,BLOWER 4	24
WIRE 26	PIN 23	PIN 5	FAULT LED CATHODE,BLOWER 4	24
WIRE 27	NONE	PIN 6,5	⊗ JUMPER TO BLOWER 4, PIN 5	24
WIRE 28	PIN 24	PIN 7	BLOWER PRESENT,BLOWER 4	24
		PIN 8	NO CONNECT	

REL FOR ASM	QTY	TECHNICAL APPROVAL	DATE	EC NO.	DATE	EC NO.	PART NO.
		ELECTRICAL	20051230	H86992			42R4056
		MATERIAL					

SHEET 1 OF 2



ABOVE VIEW SHOWN FOR CABLE INSTALLATION.
 SEE VIEWS ON SHEET 2 FOR BUILD DETAILS.

- 39J1921 - (4630mm) 20 AWG 300 VOLT TINNED WIRE (7X28 STRANDING)
- 39J1452 - (11575mm) 24 AWG 300 VOLT TINNED WIRE (7X32 STRANDING)
- 39J1917 - (P1) 24 PDS MICRO-FIT C&P HOUSING
- 39J2842 - (4X) (P10,P11,P12,P13) 8 PDS BMI MICRO-FIT
- 39J2843 - (24x) 20-24 AWG SOCKET CONTACT (FOR P1)
- 39J2458 - (28x) 20-24 AWG SOCKET CONTACT (FOR P10,P11,P12,P13)
- 39J2454 - (750mm) 3/8" BRAID SLEEVE ⑦
- 39J2492 - (6X) CABLE TIE

- 0878235 - ENGINEERING SPECIFICATION - ASSEMBLY
- 21P4465 - REFERENCE DRAWING - LABELING
- 5528706 - ENGINEERING SPECIFICATION - CRIMPING
- 73F9240 - ENGINEERING SPECIFICATION - BAR CODE LABEL

LAST WIRE USED - 28
 UNUSED WIRE NUMBERS - NONE

NOTES

- CABLE ASSEMBLY PURCHASED BY IBM MUST BE A UL RECOGNIZED WIRING HARNESS, UL RECOGNITION MARKING IS REQUIRED ON THE ASSEMBLY OR ON THE SMALLEST UNIT CONTAINER IN WHICH THE ASSEMBLY IS PACKAGED
- ALL PLASTIC MATERIAL 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 RECOGNIZED FLAME CLASS OF VW-1 AND (EXCEPT FOR HEAT SHRINK TUBING AND FLAT RIBBON CABLE) BE SURFACED MARKED FOR TRACEABILITY. ALL TAPE MUST BE UL LISTED OR RECOGNIZED. ALL CONNECTORS MUST BE UL RECOGNIZED COMPONENTS
- THE MANUFACTURER SHALL NOTIFY IBM PROCUREMENT 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.
- Ⓧ LABEL SIZE AND ATTACHMENT TO BE PER REFERENCE DRAWING 21P4465 LABEL PER IBM ENGINEERING SPECIFICATION 73F9240, SERIALIZATION REQUIRED. LOCATE PER DIMENSION INDICATED.
- MAXIMUM RESISTANCE OF INDIVIDUAL WIRES INCLUDING THE END CONNECTORS AND MATED TEST PIN TO BE 90mΩ MAX. EACH CABLE TO BE TESTED 100% FOR SHORTS, OPENS, MISWIRING, CONTINUITY AND HIPOT PER IBM ENGINEERING SPEC 0878235, HARNESS CABLES SECTION
- ASSEMBLE PER ENGINEERING SPECIFICATION 0878235. INDIVIDUAL PACKAGING IS OPTIONAL. IF ASSEMBLY IS INDIVIDUALLY PACKAGED, A LABEL IS NOT REQUIRED ON THE PACKAGE.
- Ⓡ WIRES TO BE CONTAINED WITHIN REF BRAID SLEEVE PER DIMENSIONS SHOWN. THE ENDS OF THE BRAID SLEEVE MUST BE SECURED WITH SHRINK TUBING OR TAPE
- Ⓢ CUT JUMPERS (4X) FROM WIRE 39J1452 REF TO LENGTH AS NEEDED. (8X) (MARRIAGE OF WIRE 5&6,12&13,19&20,26&27) CRIMP AND TERMINATE WIRE. PLUG ASSEMBLED JUMPERS INTO CONNECTOR 39P2842 REF PER WIRE CHART
- MUST MEET REQUIRMENTS OF IBM ENG SPEC 53P6233 AND 46G3772

SHEET 1 OF 2

42R4056

IBM MATERIAL NO.	MUST CONFORM TO ENG SPEC:80X2324 46G3772	SCALE: NONE	PART NO. 42R4056	IBM
MATL ALTERNATE NO.	TOLERANCES UNLESS NOTED	0.25 0.15 0.10 0.05	TITLE CABLE ASSEMBLY	
	LINEAR ± 5	THIRD ANGLE PROJECTION	DESIGNER JMR 20020530	
CASE DEPTH	ANGLES ±		CHECKED PWS 20020530	
HARDNESS	RADII UNLESS NOTED		APPROVED PWS 20020530	
SURFACE TREATMENT	EDGE/CORNER BREAKS		CLASS SJS 20020530	
	OUTSIDE MAX			
	INSIDE MAX			

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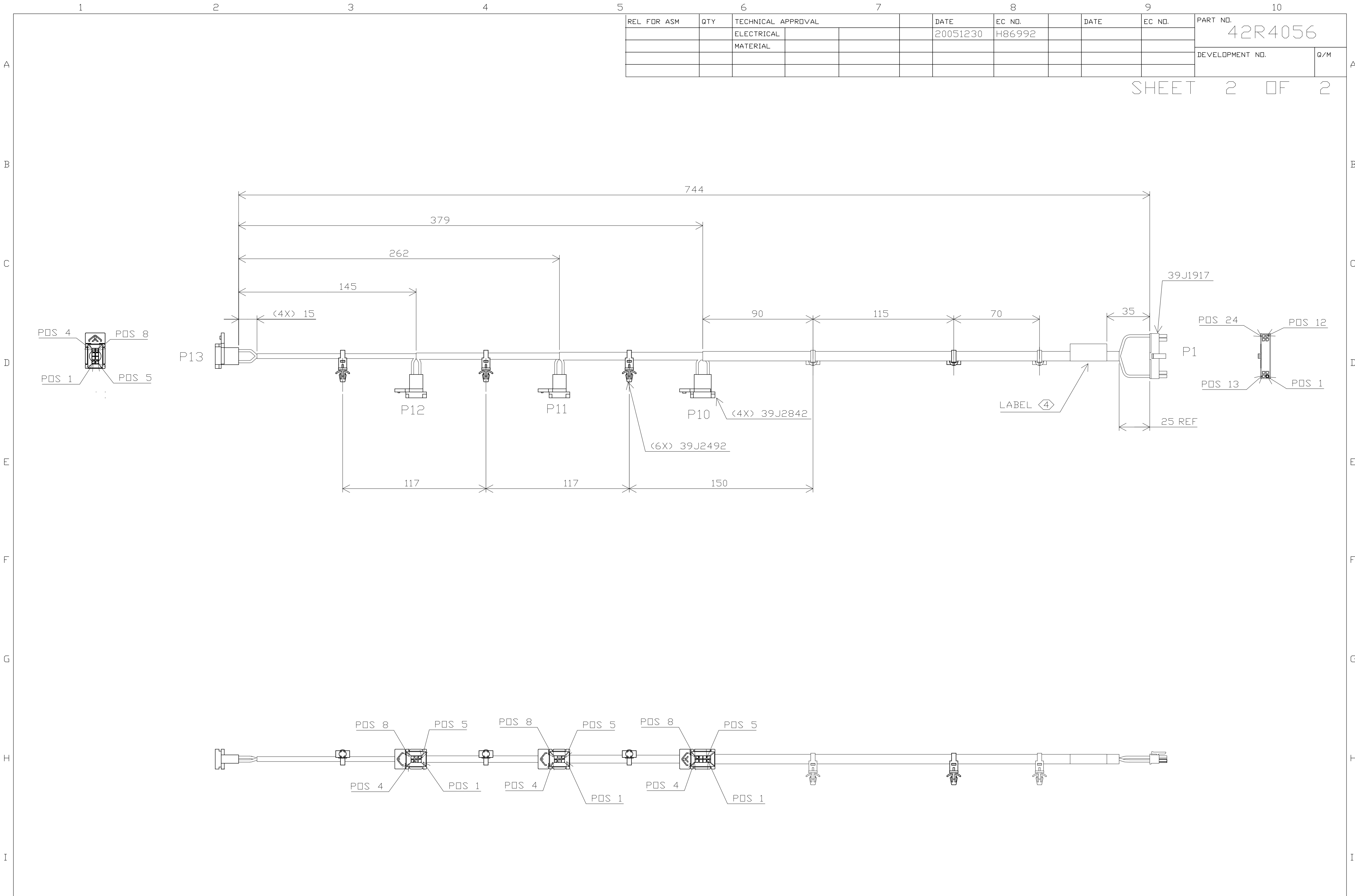
THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DWN EDDIE WANG 15MAR06	tyco Electronics	Tyco Electronics Corporation Harrisburg, Pa 17105-3608
0 PLC ± -	1 PLC ± -	CHK J. BIDDLE 15MAR06		
2 PLC ± -	3 PLC ± -	NAME J. BIDDLE 15MAR06		
4 PLC ± -	ANGLES ± -	PRODUCT SPEC	CABLE ASSEMBLY, SYSTEMS BLOWERS (IBM 42R4056)	
MATERIAL -	FINISH -	APPLICATION SPEC	SIZE	CAGE CODE
		WEIGHT -	A1	00779
		CUSTOMER DRAWING	DRAWING NO C=6653266	
		SCALE 1:1	SHEET 2 OF 3	REV B

LOC	DIST	REVISIONS			
GP	00	REV	DESCRIPTION	DATE	DRN
		-	SEE SHEET 1	-	-

REL FOR ASM	QTY	TECHNICAL APPROVAL	DATE	EC NO.	DATE	EC NO.	PART NO.
		ELECTRICAL	20051230	H86992			42R4056
		MATERIAL					
							DEVELOPMENT NO.
							Q/M

SHEET 2 OF 2



SHEET 2 OF 2
42R4056

IBM MATERIAL NO.	MUST CONFORM TO ENG SPEC:80X2324 46G3772	SCALE: NONE	PART NO. 42R4056
MATL ALTERNATE NO.	TOLERANCES UNLESS NOTED	THIRD ANGLE PROJECTION	TITLE CABLE ASSEMBLY SYSTEMS BLOWERS
CASE DEPTH	LINEAR ± 5		DESIGNER JMR 20020530
HARDNESS	ANGLES ±		CHECKED PWS 20020530
SURFACE TREATMENT	RADII UNLESS NOTED		APPROVED PWS 20020530
	EDGE/CORNER BREAKS		CLASS SJS 20020530
	OUTSIDE MAX		
	INSIDE MAX		

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK J. BIDDLE 15MAR06	NAME J. BIDDLE
0 PL ± -	1 PL ± -	APD J. BIDDLE 15MAR06	PRODUCT SPEC
2 PL ± -	3 PL ± -		APPLICATION SPEC
4 PL ± -	ANGLES ± -		RESTRICTED TO
MATERIAL	FINISH	SIZE A1	CAGE CODE 00779
		DRAWING NO. 6653266	REV B
		WEIGHT	CUSTOMER DRAWING
		SCALE 1:1	SHEET 3 OF 3