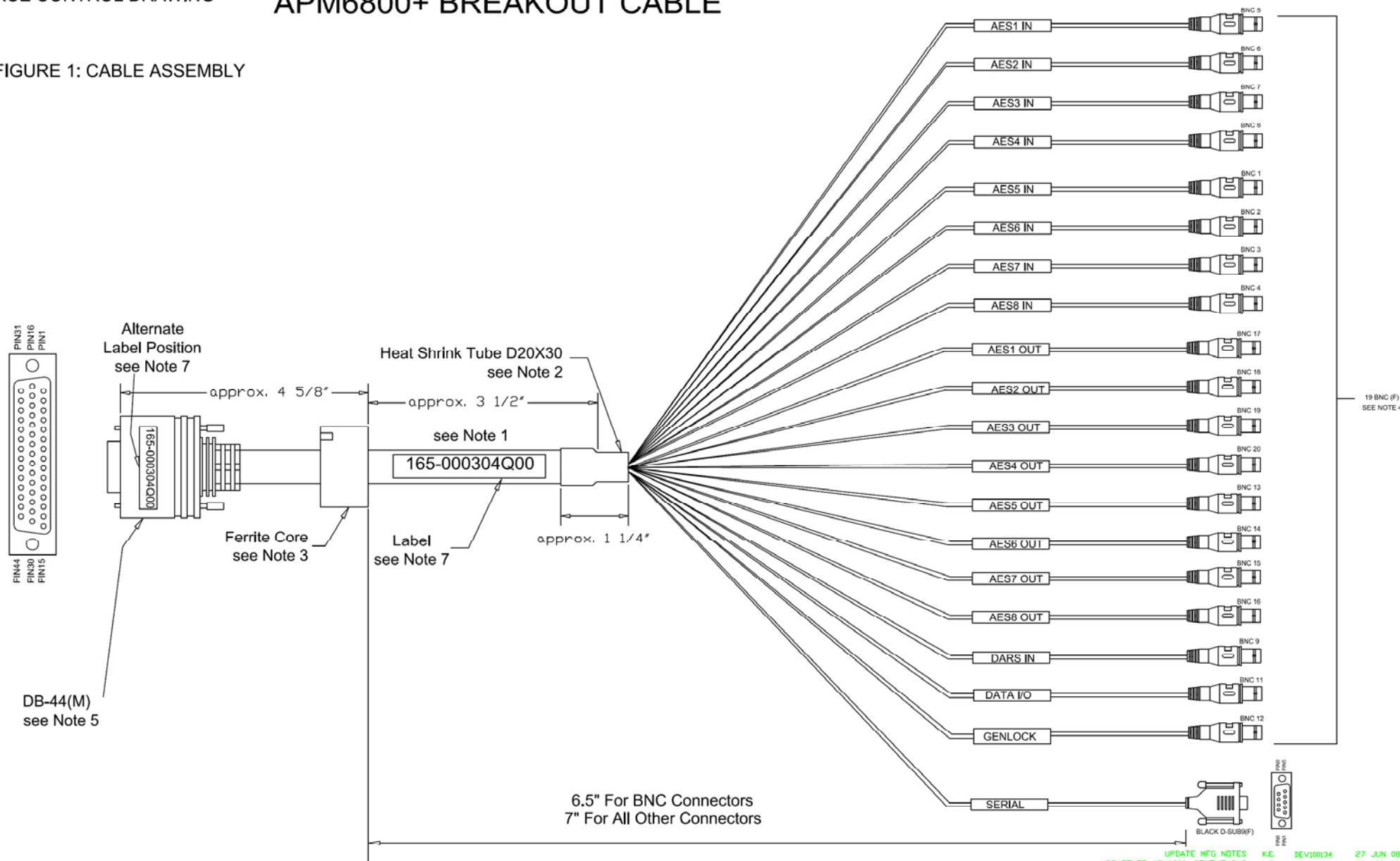


APM6800+ BREAKOUT CABLE

FIGURE 1: CABLE ASSEMBLY



APM6800+ BREAKOUT CABLE

NOTES:

1	Flexible Cord Requirements: - Manufacturer: UL and CSA approved source - Max Voltage: 30VDC or higher - Max Temperature: 80°C or higher - Flammability rating: VW-1 or FT-1 - Marking of C-UL-US (preferable) or C-UR-US stamped on the flexible cord insulation. - Shield around BNC connector wire cluster to be connected to the DB44 housing. - Cord shall be labelled as shown.
2	Shrinkable Tubing Requirements: - Manufacturer: UL and CSA approved source - Max voltage: 30VDC - Max temperature: 80°C or higher - Flammability rating: VW-1 or FT-1 - Marking of C-UL-US (preferable) or C-UR-US stamped on the tubing.
3	Ferrite Core: - URITE p/n# F5B T 28*13*16 or Panasonic KR16TT251512 or Steward p/n# 28B0735-000 or equivalent - Core shall be attached such that its position cannot be altered. - Required component specifications: Broad band EMI ferrite, typical impedance is 80-250 ohms at 100MHz.
4	BNC Connector Wire: - Wires shall be labelled as shown. - Manufacturer's Equivalent for 75 ohm coax cable (Example Belden 1865A, Belden 9221, or equivalent) Note: Total line impedance must be 75 ohm for any cable terminated with a BNC. BNC Connector: - Use Amp #S413760-8 or equivalent

NOTES:

5	LPN or Manufacturer's Equivalent: - DB-44(M) Pantone Black: Kycon #K86-BA-44P-KJ-30 with Conec #165X02619X (or equivalent) - DB-9(): Conec #162A10019X (or equivalent) DB-9 Connector Wire: - Manufacturer's Equivalent for 7 Conductor 24 AWG (Example Provo p/n #6807 or equivalent)
6	Testing for shorts and continuity shall be required. No shorts between adjacent pins and between connectors. Continuity verified pin to pin and connector to connector as assigned to Table I.
7	Labels shall be permanent and legible.
8	Design and construction shall ensure cable and signal performance complies with Table I and Table II.
9	Exposed wiring is not allowed.
10	Cable assembly shall be free of hazardous materials including lead and halogens. Cable should be RoHS Compliant.

SOURCE CONTROL DRAWING

PN# CA-B1033-0008

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THIRD ANGLE
PROJECTION

DOCUMENT CLASS 8,5,5
REF#: LC
FILE: DWG

ENG: U.S.
DRN: K.E.
DATE: 23 JAN 08

ECO CHANGE DESCRIPTION
TITLE
APM6800+ BREAKOUT CABLE

SHEET 2 OF 3
ENG NO. 165-000304000
DATE 27 JUN 08
REV B

UPDATE MFG NOTES
UPDATE TO APM6800, REMOVE BNC
INITIAL DESIGN

K.E. DEV100134 27 JUN 08 B
K.E. T010215 16 APR 08 A
K.E. T010XXX 23 JAN 08 01

APM6800+ BREAKOUT CABLE

TABLE I: PIN ASSIGNMENTS

PIN # ON DB-44M	CONNECTION TYPE	DESCRIPTION	WIRE LABEL	EXTERNAL CABLE COLOR	BNC COLOR
1	BNC12	GENLOCK	GENLOCK	BLACK	BLACK
2	BNC12-GND	GENLOCK GND	GENLOCK	BLACK	BLACK
3	BNC15-GND	AES OUT 7 GND	AES OUT 7	BLUE	BLUE
4	BNC8	AES IN 4	AES IN 4	WHITE	WHITE
5	BNC8-GND	AES IN 4 GND	AES IN 4	WHITE	WHITE
6	BNC7	AES IN 3	AES IN 3	WHITE	WHITE
7	BNC7-GND	AES IN 3 GND	AES IN 3	WHITE	WHITE
8	BNC11	DATA IO	DATA IO	YELLOW	YELLOW
9	BNC11-GND	DATA IO GND	DATA IO	YELLOW	YELLOW
10	BNC18	AES OUT 2	AES OUT 2	BLUE	BLUE
11	BNC18-GND	AES OUT 2 GND	AES OUT 2	BLUE	BLUE
12	BNC17	AES OUT 1	AES OUT 1	BLUE	BLUE
13	BNC17-GND	AES OUT 1 GND	AES OUT 1	BLUE	BLUE
14	BNC3-GND	AES IN 7 GND	AES IN 7	WHITE	WHITE
15	BNC3	AES IN 7	AES IN 7	WHITE	WHITE
16	BNC10	NO CONNECTION	N/A	N/A	N/A
17	BNC10-GND	NO CONNECTION	N/A	N/A	N/A
18	BNC15	AES OUT 7	AES OUT 7	BLUE	BLUE
19	BNC9	DARS IN 1	DARS IN	YELLOW	BLACK
20	BNC9-GND	DARS IN 1 GND	DARS IN	YELLOW	BLACK
21	BNC6	AES IN 2	AES IN 2	WHITE	WHITE
22	BNC19-GND	AES OUT 3 GND	AES OUT 3	BLUE	BLUE
23	BNC19	AES OUT 3	AES OUT 3	BLUE	BLUE
24	BNC14-GND	AES OUT 6 GND	AES OUT 6	BLUE	BLUE
25	BNC20-GND	AES OUT 4 GND	AES OUT 4	BLUE	BLUE
25	162A10019X(DB9.5)	RS232_GND	SERIAL	BLACK	N/A
26	BNC20	AES OUT 4	AES OUT 4	BLUE	BLUE
27	BNC13-GND	AES OUT 5 GND	AES OUT 5	BLUE	BLUE
28	BNC4	AES IN 8	AES IN 8	WHITE	WHITE
29	BNC4-GND	AES IN 8 GND	AES IN 8	WHITE	WHITE

TABLE I: PIN ASSIGNMENTS (cont'd)

PIN # ON DB-44M	CONNECTION TYPE	DESCRIPTION	WIRE LABEL	EXTERNAL CABLE COLOR	BNC COLOR
30	BNC1-GND	AES IN 5 GND	AES IN 5	WHITE	WHITE
31	162A10019X(DB9.3)	SERIAL	SERIAL	RED	N/A
32	162A10019X(DB9.8)	SERIAL	SERIAL	YELLOW	N/A
33	BNC16-GND	AES OUT 8 GND	AES OUT 8	BLUE	BLUE
34	BNC16	AES OUT 8	AES OUT 8	BLUE	BLUE
35	BNC6-GND	AES IN 2 GND	AES IN 2	WHITE	WHITE
35	162A10019X(DB9.1)	SERIAL	SERIAL	BLACK	N/A
36	BNC5	AES IN 1	AES IN 1	WHITE	WHITE
37	BNC5-GND	AES IN 1 GND	AES IN 1	WHITE	WHITE
37	162A10019X(DB9.9)	SERIAL	SERIAL	BLACK	N/A
38	BNC14	AES OUT 6	AES OUT 6	BLUE	BLUE
39	162A10019X(DB9.7)	SERIAL	SERIAL	BLUE	N/A
40	162A10019X(DB9.2)	SERIAL	SERIAL	GREEN	N/A
41	BNC13	AES OUT 5	AES OUT 5	BLUE	BLUE
42	BNC2-GND	AES IN 6 GND	AES IN 6	WHITE	WHITE
43	BNC2	AES IN 6	AES IN 6	WHITE	WHITE
44	BNC1	AES IN 5	AES IN 5	WHITE	WHITE

TABLE II: DESIGN AND PERFORMANCE REQUIREMENT

PARAMETER	REQUIREMENT	VALUE
EMC	FCC PART 15 EMC DIRECTIVE 89/336/EEC	-
UNBALANCED AES IN UNBALANCED AES OUT	SMPTE276M SMPTE276M	- -

SOURCE CONTROL DRAWING