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DWG NO.	SHEET	REV
500-81723	1	A

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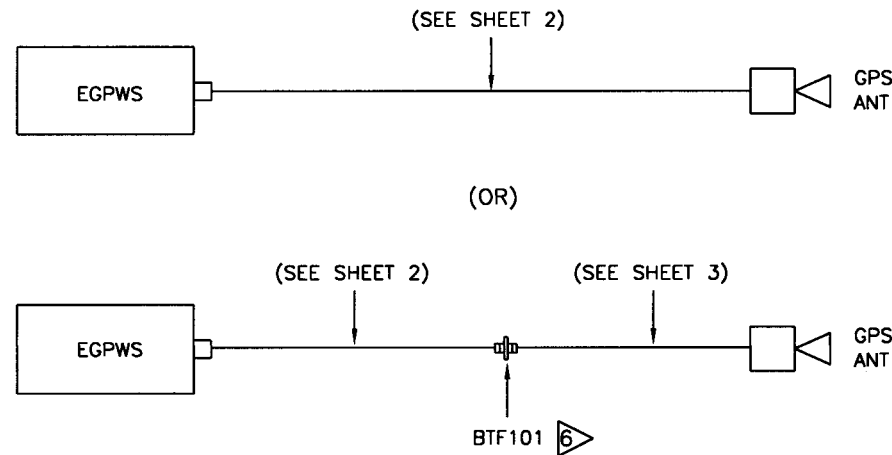
CAD GENERATED DOCUMENT

ANY CHANGES TO THIS DOCUMENT MUST BE SUBMITTED TO THE DESIGN/DRAFTING DEPARTMENT FOR PROPER UPDATE

REVISIONS					
ECN	ZONE	REV.	BRIEF DESCRIPTION (SEE ECN FOR COMPLETE CHANGE DETAILS)	DATE	APPROVED
8148	A1	N/C	NEW RELEASE	3/9/99	MCT
10230	A1	A	ADD ALTERNATE PART NUMBERS	3/4/00	EAC

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 LABEL BOTH ENDS OF CABLE. COVER ALL LABELS WITH CLEAR HEAT SHRINK. APPLY BLACK ADHESIVE SHRINK TUBING ACCORDING TO ECS WORK INSTRUCTION W10007.
- 2. MARK OUTSIDE OF BOX WITH P.O. #, SERIAL #, AND CONTENTS DESCRIPTION PER EXAMPLE:
P.O. # XXXXX
SER # EGXXXX
500-81723-XXX-XXX-X EGPWS/GPS RF COAX ANT. CABLE
- 3. INCLUDE APPROPRIATE TEST DOCUMENTATION WITH EACH CABLE.
- 4. TEST WITH MARKER SET AT 1575.42 MHz. ATTENUATION: < 10 dB FOR ENTIRE ANT. RUN
VSWR: ≤ 1.50:1 FOR EACH ANT. RUN.
- 5. MANUFACTURE CABLE ASSEMBLIES WITHIN TOLERANCE PER ECS WORK INSTRUCTION W1009.
- 6 A F/F TNC ADAPTER, ECS P/N BTF101, IS REQUIRED FOR MULTIPLE ANTENNA CABLE RUNS. (BTF101 TO BE ORDERED SEPARATELY)



ALL LENGTHS IN INCHES		ECS ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
APPROVALS	DATE	TITLE : ALLIED SIGNAL MARK VII EGPWS : GPS RF COAX ANTENNA CABLES	
DRAWN BY: C CHAPMAN	12/10/98	SIZE B 66197	LEVEL 500-81723
CHECKED BY: C CHAPMAN	03/08/99		
DESIGNED BY:		DWG NO.	
PROJECT ENG: M TAUBENHEIM	03/09/99	500-81723	
ENG. MOD:		SCALE	SHEET 1 OF 3

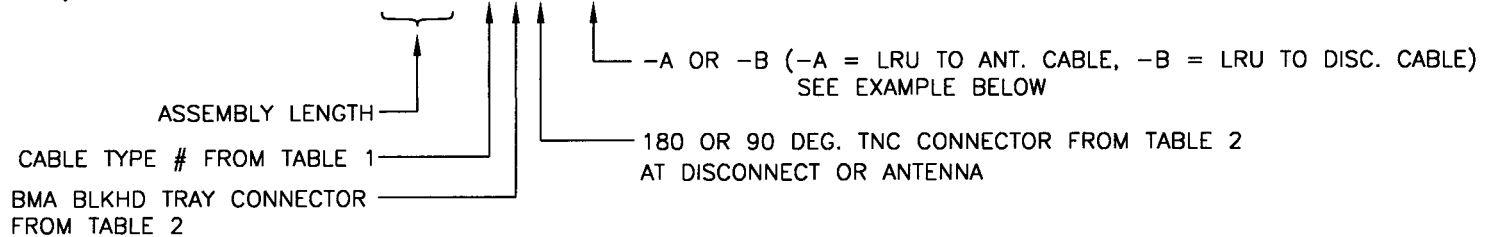
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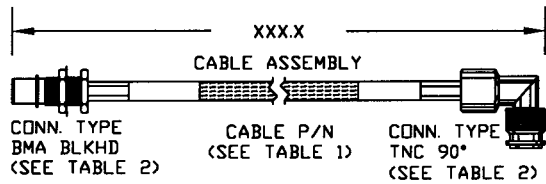
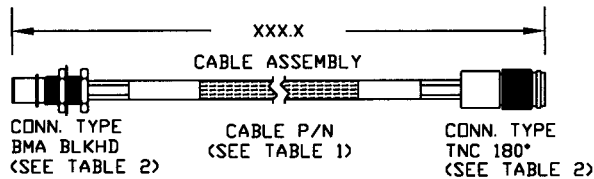
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P/N 500-81723-XXX-X3X-X (ALL LENGTHS IN INCHES)



CABLE ASSEMBLY CONFIGURATION



EXAMPLE : 500-81723-168-131-A = 168" ASSEMBLY OF 3C142B WITH A 14BMA-50-3-3C & CTS722 CONNECTOR AND ONLY A SINGLE (-A) ANT. CABLE IS REQUIRED FOR ENTIRE ANT. RUN.

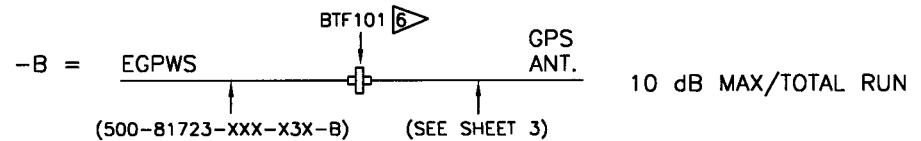
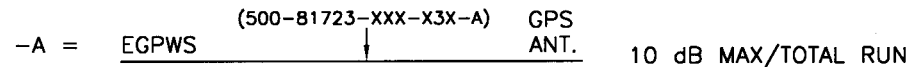


TABLE 1 (ECS COAX CABLE)

2	311901	50 OHM COAX, .157 dB/FT @ 1.575 GHz.
1	3C142B	50 OHM COAX, .200 dB/FT @ 1.575 GHz.
#	ECS P/N	DESCRIPTION

CABLE LABELING

500-81723-XXX-X3X-X
SER# EGXXXX
GPS ANT.

TABLE 2 (ECS COAX CONNECTORS)

3	14BMA-50-3-3C	CONN.,BMA BLKHD PLUG FOR 3C142B,311901	4533-7341-02
2	CTR722	CONN.,TNC, 90 DEG. FOR 3C142B,311901	M39012/30-0503,225554-6,31-4474,KA-59-273,KA-59-236
1	CTS722	CONN.,TNC, 180 DEG. FOR 3C142B,311901	M39012/26-0503,225555-6,31-4452,KA-59-292
#	ECS P/N	DESCRIPTION	ALTERNATE P/N

NOTES: SEE SHEET 1

ECS ELECTRONIC CABLE SPECIALISTS
FRANKLIN, WI 53132
PHONE: (414) 421-5300

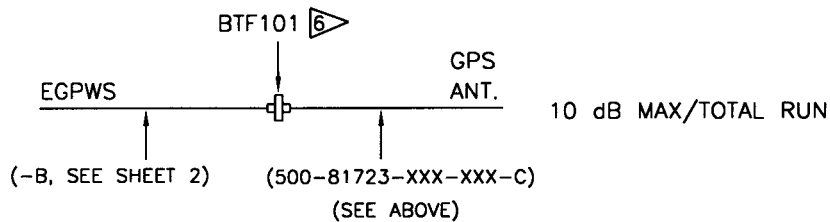
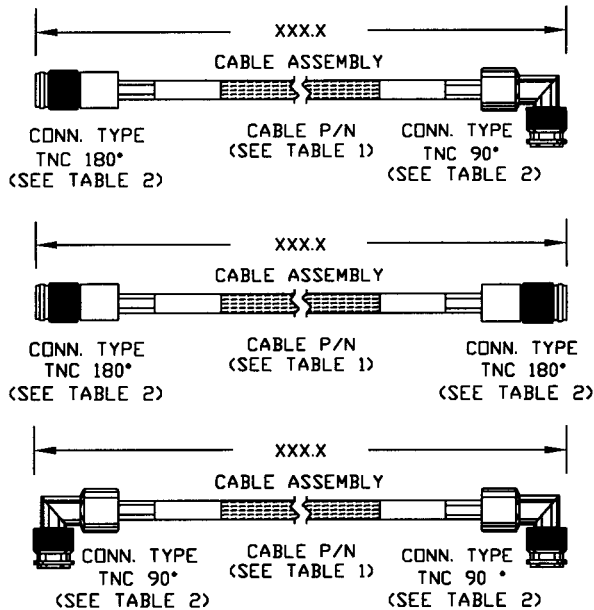
SIZE: C	CHG CODE: 66197	LEVEL:	DWG NO.: 500-81723
SCALE:	EFFECTIVITY:	SHEET: 2 OF 3	

P/N 500-81723-XXX-XXX-C (ALL LENGTHS IN INCHES)

ASSEMBLY LENGTH
 CABLE TYPE # FROM TABLE 1
 180 OR 90 DEG. TNC CONNECTOR FROM TABLE 2 @ DISCONNECT
 -C = DISC. TO ANT. CABLE (SEE EXAMPLE BELOW)
 180 OR 90 DEG. TNC CONNECTOR FROM TABLE 2 @ ANTENNA

EXAMPLE : 500-81723-168-112-C = 168" ASSEMBLY OF 3C142B WITH A CTS722 & CTR722 CONNECTOR W/MULTIPLE ANT. CABLES (-B AND -C) REQUIRED FOR ENTIRE ANT. RUN.

CABLE ASSEMBLY CONFIGURATIONS



CABLE LABELING
 500-81723-XXX-XXX-C
 SER# EGXXXX
 GPS ANT.

TABLE 1 (ECS COAX CABLE)

7	310801	50 OHM COAX, .053 dB/FT @ 1.575 GHz.
6	311201	50 OHM COAX, .077 dB/FT @ 1.575 GHz.
5	311501	50 OHM COAX, .100 dB/FT @ 1.575 GHz.
4	311601	50 OHM COAX, .120 dB/FT @ 1.575 GHz.
3	352001*	50 OHM COAX, .157 dB/FT @ 1.575 GHz.
2	311901	50 OHM COAX, .157 dB/FT @ 1.575 GHz.
1	3C142B	50 OHM COAX, .200 dB/FT @ 1.575 GHz.
#	ECS P/N	DESCRIPTION

* 352001 COAX CABLE IS SUPERFLEXIBLE, LIGHTWEIGHT CABLE WITH SLIGHTLY HIGHER COST THAN CABLE 311901.

TABLE 2 (ECS COAX CONNECTORS)

10	CTS022	CONN.,TNC, 180 DEG. FOR 310801	
9	CTR022	CONN.,TNC, 90 DEG. FOR 310801	
8	CTS122	CONN.,TNC, 180 DEG. FOR 311201	
7	CTR122	CONN.,TNC, 90 DEG. FOR 311201	
6	CTS922	CONN.,TNC, 180 DEG. FOR 311601,311501	
5	CTR922	CONN.,TNC, 90 DEG. FOR 311601,311501	
4	CTS3522	CONN.,TNC, 180 DEG. FOR 352001	
3	CTR3522	CONN.,TNC, 90 DEG. FOR 352001	
2	CTS722	CONN.,TNC, 180 DEG. FOR 3C142B,311901	M39012/26-0503,225555-6,31-4452,KA-59-292
1	CTR722	CONN.,TNC, 90 DEG. FOR 3C142B,311901	M39012/30-0503,225554-6,31-4474,KA-59-273,KA-59-236
#	ECS P/N	DESCRIPTION	

NOTES: SEE SHEET 1

ECS ELECTRONIC CABLE SPECIALISTS
 FRANKLIN, WI 53132
 PHONE: (414) 421-5300

SIZE: C66197 LEVEL: 3 DWG. NO. 500-81723
 SCALE: EFFECTIVITY: SHEET: 3 OF 3