

DWG. NO.	SHEET	REV.
500-104821	1	A

**** EXPORT CONTROLLED DOCUMENT - EAR ****
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REVISIONS				DATE	APPROVED
EDN	SHEET	ZONE	REV.	BRIEF DESCRIPTION (SEE EDN FOR COMPLETE CHANGE DETAILS)	
72355			NC	NEW RELEASE	8/21/18 R LAY
72745		TB	A	ADDED "DUAL ATG/DIRECTIONAL" TO TITLE.	9/26/18 R-L

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NOTES: UNLESS OTHERWISE SPECIFIED

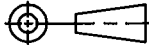

- LABEL CABLES AND INSTALL BLACK ADHESIVE SHRINK TUBING ON CONNECTORS PER ECS WORK INSTRUCTION W1007. INFORMATION IN PARENTHESIS IS NOT PART OF LABEL
- COAXIAL CABLE ASSEMBLY LENGTH TOLERANCE, UNLESS OTHERWISE NOTED;

LENGTH	≤ 12	>12 ≤ 120	> 120
TOL	+0.5/-0.0	+3.5/-0.0	+5.5/-0.0

- TEST TO BE PERFORMED PER MI305 AND THE FOLLOWING:
 TEST CABLES WITH MARKER SET AT 900 MHz.
 ATTENUATION: < 3 dB FOR EACH CABLE.
 VSWR: ≤ 1.35:1 FOR EACH CABLE.
- INCLUDE APPROPRIATE TEST DOCUMENTATION WITH EACH SET.
- IF USING 311901, 421601, 311601 OR 311501 A 1 INCH PIECE OF RED HEAT SHRINK P/N ST22138-RED OR ALT P/N STS22138-RED OR M23053/5-107-2 SHALL BE USED ON -01, -03, -05 AND -07. A 1 INCH PIECE OF BLUE HEAT SHRINK P/N ST22138-BLU OR ALT P/N STS22138-BLU OR M23053/5-107-6 SHALL BE USED ON -02, -04, -06 AND -08. INSTALL COLORED HEAT SHRINK PER W1007.
- IF USING 421201 OR 311201 A 1 INCH PIECE OF RED HEAT SHRINK P/N ST22112-RED OR ALT P/N STS22112-RED OR M23053/5-108-2 SHALL BE USED ON -01, -03, -05 AND -07. A 1 INCH PIECE OF BLUE HEAT SHRINK P/N ST22112-BLU OR ALT P/N STS22112-BLU OR M23053/5-108-6 SHALL BE USED ON -02, -04, -06 AND -08. INSTALL COLORED HEAT SHRINK PER W1007.

QTY REQ'D	COMPONENTS PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
1	500-104821-XXX-XX-08	AFT ATG COAX CABLE J3	8
1	500-104821-XXX-XX-07	AFT ATG COAX CABLE J4	7
1	500-104821-XXX-XX-06	AFT ATG COAX CABLE J1	6
1	500-104821-XXX-XX-05	AFT ATG COAX CABLE J2	5
1	500-104821-XXX-XX-04	FWD ATG COAX CABLE J3	4
1	500-104821-XXX-XX-03	FWD ATG COAX CABLE J4	3
1	500-104821-XXX-XX-02	FWD ATG COAX CABLE J1	2
1	500-104821-XXX-XX-01	FWD ATG COAX CABLE J2	1

PART LIST

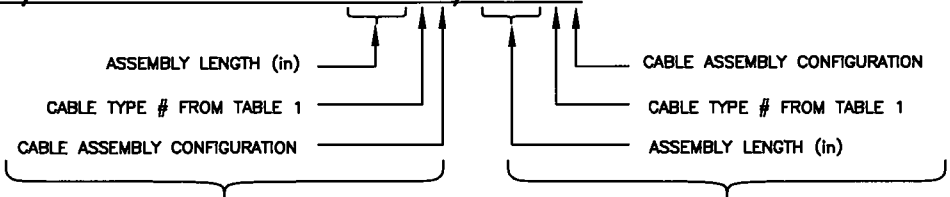
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES: XX ± .03 XXX ± .01	ALL LENGTHS IN INCHES DRAWN C CHAPMAN 7/12/18 CHECKED R LAY 8/21/18 DESIGNED C CHAPMAN 7/12/18 PROJECT R LAY 8/21/18 MANUFACTURING S SKIbinski 8/23/18 ENGINEERING			Carlsile Interconnect Technologies Franklin, WI 53132 414-421-5300
TITLE: AVANCE L5 DUAL ATG/DIRECTIONAL ANTENNA COAX ASSEMBLY KIT			SIZE: C 66197 LEVEL: 1 DWG NO.: 500-104821	
THIRD ANGLE PROJECTION			SCALE: EFFECTIVITY: NONE SHEET: 1 OF 4	

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DUAL ATG/DIRECTIONAL ANTENNA INSTALLATION

EXAMPLE KIT PART NUMBER

P/N 500-104821-3202A/2401A



FWD ANTENNA CABLES
INCLUDES 01 THRU 04
SEE SHEET 3.

AFT ANTENNA CABLES
INCLUDES 05 THRU 08
SEE SHEET 3.

AVANCE L5

- ATG1 FWD H1 (RED)
- ATG2 FWD V1 (BLUE)
- ATG1 RIGHT H2 (RED)
- ATG2 RIGHT V2 (BLUE)
- ATG1 AFT H3 (RED)
- ATG2 AFT V3 (BLUE)
- ATG1 LEFT H4 (RED)
- ATG2 LEFT V4 (BLUE)

500-104821-XXX-XX-01

500-104821-XXX-XX-02

500-104821-XXX-XX-03

500-104821-XXX-XX-04

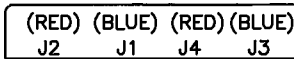
500-104821-XXX-XX-05

500-104821-XXX-XX-06

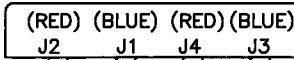
500-104821-XXX-XX-07

500-104821-XXX-XX-08

FWD QUAD MODE ANTENNA



AFT QUAD MODE ANTENNA



CARLISLE		Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE C	ORIG. CODE 66197	LEVEL	DWG. NO. 500-104821
SCALE	EFFECTIVITY	NONE	SHEET 2 OF 4

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CABLE ASSEMBLY PART NUMBER

P/N 500-104821-XXX-XX-XX (ALL LENGTHS IN INCHES)

ASSEMBLY LENGTH
 CABLE TYPE # FROM TABLE 1
 CABLE ASSEMBLY CONFIGURATION
 A, B OR C SEE TABLE 2

01,02,03,04,05,06,07,08 (SEE EXAMPLE BELOW)

EXAMPLE : 500-104821-320-2A-01 = 320" ASSEMBLY OF
 421601 WITH TWO CTS922 CONNECTORS ON EACH END
 USED FOR FWD ATG ANTENNA J2.

CABLE ASSEMBLY CONFIGURATIONS

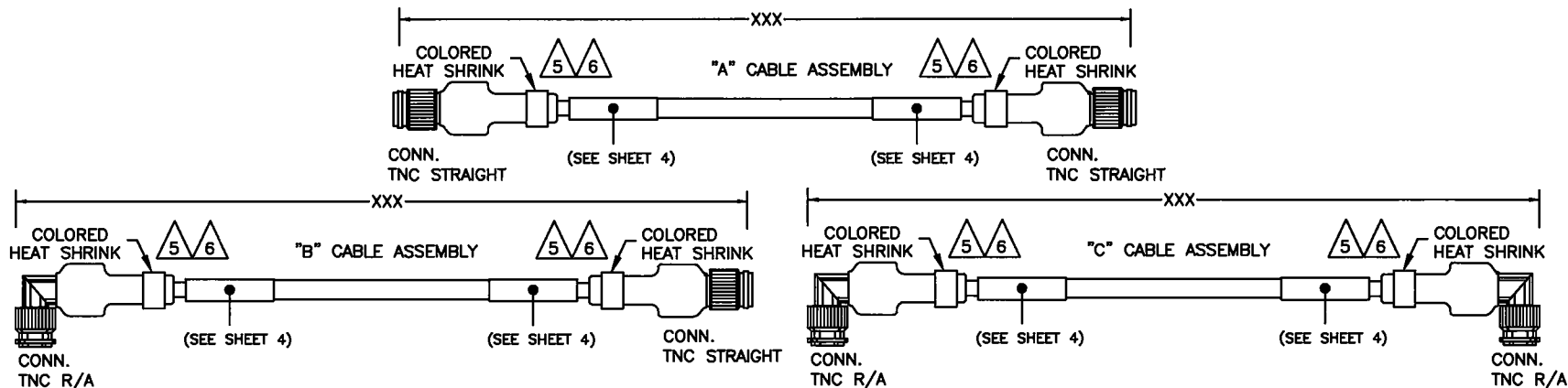


TABLE 2 (COAX CONNECTOR & LABELS)

TABLE 1 (COAX CABLE TYPE)

6	311201	600 INCHES
	421201	600 INCHES
#	CABLE TYPE	MAXIMUM LENGTH

2	2	2	TMS-SCE-1/2-2.0-9	1/2 INCH HEAT SHRINK (LABEL)
2	1	-	CTR122	RIGHT ANGLE TNC PLUG FOR 421201, 311201
-	1	2	CTS122	STRAIGHT TNC PLUG FOR 421201, 311201
C	B	A	PART NUMBER	DESCRIPTION
CONFIGURATION				

5	4	311501	500 INCHES
	3	311601	420 INCHES
	2	421601	420 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

2	2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
2	1	-	CTR922	RIGHT ANGLE TNC PLUG FOR 421601, 311601, 311501
-	1	2	CTS922	STRAIGHT TNC PLUG FOR 421601, 311601, 311501
C	B	A	PART NUMBER	DESCRIPTION
CONFIGURATION				

5	1	311901	300 INCHES
	#	CABLE TYPE	MAXIMUM LENGTH

2	2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
2	1	-	CTR722	RIGHT ANGLE TNC PLUG FOR 311901
-	1	2	CTS722	STRAIGHT TNC PLUG FOR 311901
C	B	A	PART NUMBER	DESCRIPTION
CONFIGURATION				

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 Franklin, WI 53132
 414-421-5300

SIZE	CODE	LEVEL	DRG. NO.
C	66197		500-104821
SCALE	EFFECTIVITY	NONE	SHEET 3 OF 4

4

3

2

1

DWG. NO.	SHEET	REV.
500-104821	4	A

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CABLE LABELING

500-104821-XXX-XX-01
 SER# EXXXXX
 ATG1 FWD-H1/J2 ANT
 (RED)

500-104821-XXX-XX-02
 SER# EXXXXX
 ATG2 FWD-V1/J1 ANT
 (BLUE)

500-104821-XXX-XX-03
 SER# EXXXXX
 ATG1 RIGHT-H2/J4 ANT
 (RED)

500-104821-XXX-XX-04
 SER# EXXXXX
 ATG2 RIGHT-V2/J3 ANT
 (BLUE)

500-104821-XXX-XX-05
 SER# EXXXXX
 ATG1 AFT-H3/J2 ANT
 (RED)

500-104821-XXX-XX-06
 SER# EXXXXX
 ATG2 AFT-V3/J1 ANT
 (BLUE)

500-104821-XXX-XX-07
 SER# EXXXXX
 ATG1 LEFT-H4/J4 ANT
 (RED)

500-104821-XXX-XX-08
 SER# EXXXXX
 ATG2 LEFT-V4/J3 ANT
 (BLUE)

D

D

C

C

B

B

A

A

4

3

2

1

CARLISLE		Carlisle Interconnect Technologies	
		Franklin, WI 53132	
		414-421-5300	
SIZE	DWG. CODE	LEVEL	DWG. NO.
C	66197		500-104821
SCALE	EFFECTIVITY	NONE	SHEET: 4 OF 4