

**** EXPORT CONTROLLED DOCUMENT - EAR ****
 The information in this document is subject to the Export Controls in Accordance with the Export Administration Regulations. Diversion Contrary to U.S. Law is prohibited.

This print and associated documents and the contained information are the confidential property of CARLISLE INTERCONNECT TECHNOLOGIES. Disclosure of, and/or reproduction of, all or part thereof or manufacture of any part from information contained on this print not specifically permitted by CARLISLE INTERCONNECT TECHNOLOGIES in writing is forbidden.

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

NOTES: UNLESS OTHERWISE SPECIFIED

- LABEL CABLES AND INSTALL BLACK ADHESIVE SHRINK TUBING ON CONNECTORS PER ECS WORK INSTRUCTION W1007.
- INCLUDE APPROPRIATE TEST DOCUMENTATION WITH EACH SET.
- 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 -01 AND -02 CABLES WITH MARKER SET AT 1800 MHZ.
 TEST -03 THRU -08 CABLES WITH MARKERS SET AT 2400 AND 5000 MHZ.
 ATTENUATION: < 5 dB FOR EACH CABLE.
 VSWR ≤ 1.7:1 FOR EACH CABLE.

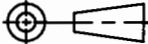
5 CONNECT P/N 132170 TO P/N CSS122 WHEN USING CABLE P/NS 421201 AND 311201.

6 DO NOT TERMINATE CONNECTOR. TERMINATE CONTACT FOR TESTING. AFTER TESTING, REMOVE CONNECTOR AND COVER CONTACT WITH HEAT SHRINK. BAG CONNECTOR AND HEAT SHRINK AND SHIP WITH CABLE ASSEMBLY.

REVISIONS						
EDN	SHEET	ZONE	REV.	BRIEF DESCRIPTION (SEE EDN FOR COMPLETE CHANGE DETAILS)	DATE	APPROVED
72745			NC	NEW RELEASE	9/26/18	R LAY
73017	1	NTS	A	ADDED FLAGNOTE 6 ADDED NEW SHEET 5, 6 AND 7	11/13/18 R Lay	
	3	FOV		ADDED B CABLE CONFIGURATION SEE SHEET 7 WAS SEE SHEET 5		
		T2		ADDED CSR722, CSR922, AND CSR122 CSS122 STRAIGHT SMA WAS STRAIGHT TNC ADDED B, D OR E TO CABLE CONFIGURATION		
	4	FOV		ADDED UNTERMINATED SETS		
	5	FOV		MOVED SHEET 4 CONTENT TO SHEET 5		
	5	FOV		ADDED B, D OR E TO CABLE CONFIGURATION		
	5	FOV		ADDED NEW D AND E CABLE CONFIGURATION SEE SHEET 7 WAS SEE SHEET 5		
		T2		ADDED CSR722, CSR922, AND CSR122 CSS122 STRAIGHT SMA WAS STRAIGHT TNC ADDED B, D OR E TO CABLE CONFIGURATION		
	6	D4		ADDED UNTERMINATED SETS		
	7	FOV		MOVED SHEET 5 CONTENT TO SHEET 7		

500-104669-XXX-XX-08	WIFI-6 RF COAX CABLE	8
500-104669-XXX-XX-07	WIFI-5 RF COAX CABLE	7
500-104669-XXX-XX-06	WIFI-4 RF COAX CABLE	6
500-104669-XXX-XX-05	WIFI-3 RF COAX CABLE	5
500-104669-XXX-XX-04	WIFI-2 RF COAX CABLE	4
500-104669-XXX-XX-03	WIFI-1 RF COAX CABLE	3
500-104669-XXX-XX-02	TM-2 RF COAX CABLE	2
500-104669-XXX-XX-01	TM-1 RF COAX CABLE	1
COMPONENTS PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO.

PART LIST

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES: XX ± .03 XXX ± .01	ALL LENGTHS IN INCHES DRAWN S SHAFFER 9/13/18 CHECKED R LAY 9/26/18 DESIGNED R LAY 9/13/18	CARLISLE Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300
THIRD ANGLE PROJECTION 	PROJECT	TITLE: AVANCE L3/L5i/L5 TM/WIFI COAX CABLES
MANUFACTURING	ENGINEERING	SIZE GAGE CODE LEVEL DWG NO. C 66197 500-104669
SCALE:	EFFECTIVITY:	NONE SHEET: 1 OF 7

4

3

2

1

DRG. NO.	SHEET	REV.
500-104669	2	A

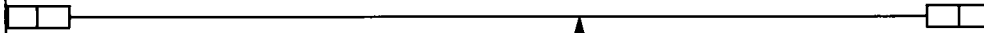
**** EAR CONTROLLED ****

AVANCE L3/L5i/L5

D

D

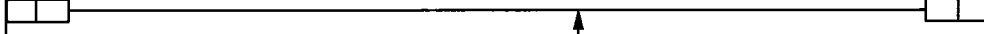
TM-1



TM-1 ANTENNA

500-104669-XXX-XX-01

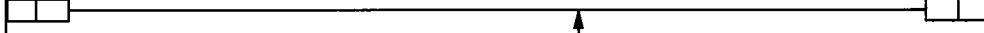
TM-2



TM-2 ANTENNA

500-104669-XXX-XX-02

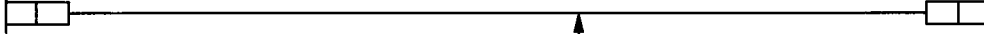
WIFI-1



WIFI-1 ANTENNA

500-104669-XXX-XX-03

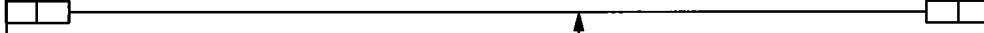
WIFI-2



WIFI-2 ANTENNA

500-104669-XXX-XX-04

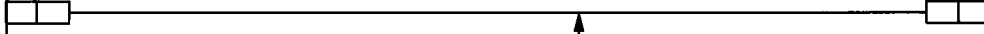
WIFI-3



WIFI-3 ANTENNA

500-104669-XXX-XX-05

WIFI-4



WIFI-4 ANTENNA

500-104669-XXX-XX-06

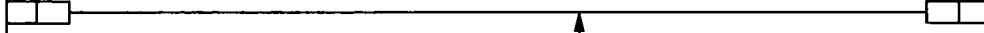
WIFI-5



WIFI-5 ANTENNA

500-104669-XXX-XX-07

WIFI-6



WIFI-6 ANTENNA

500-104669-XXX-XX-08

B

B

C

C

A

A

4

3

2

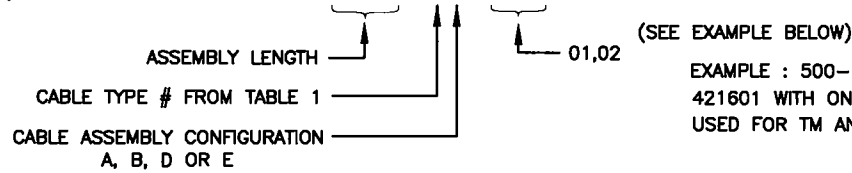
1

CARLISLE		Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE	DATE CODE	LEVEL	DRG. NO.
C	66197		500-104669
SCALE	EFFECTIVITY	NONE	
			SHEET 2 OF 7

**** EAR CONTROLLED ****

TM ANTENNA CABLE ASSEMBLY PART NUMBER

P/N 500-104669-XXX-XX-XX (ALL LENGTHS IN INCHES)



(SEE EXAMPLE BELOW)

EXAMPLE : 500-104669-320-2A-01 = 320" ASSEMBLY OF 421601 WITH ONE CSS922 AND ONE 132241 USED FOR TM ANTENNA 1.

CABLE ASSEMBLY CONFIGURATIONS

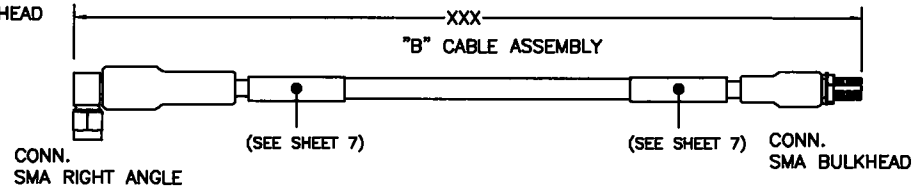
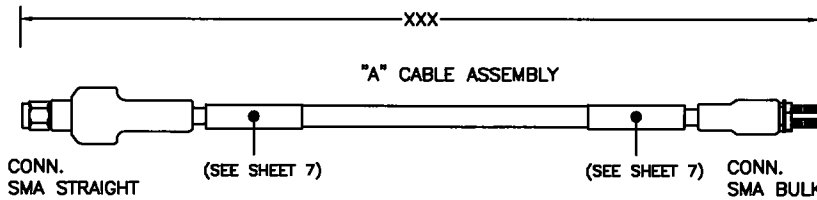


TABLE 1 (COAX CABLE TYPE)

5	6	311201	720 INCHES
	5	421201	660 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

TABLE 2 (COAX CONNECTOR & LABELS)

2	2	TMS-SCE-1/2-2.0-9	1/2 INCH HEAT SHRINK (LABEL)
1	1	132170	SMA FEMALE TO SMA FEMALE BULKHEAD ADAPTER
1	-	CSR122	RIGHT ANGLE SMA PLUG FOR 421201, 311201
1	2	CSS122	STRAIGHT SMA PLUG FOR 421201, 311201
B	A	PART NUMBER	DESCRIPTION
CONFIGURATION			

4	4	311501	576 INCHES
	3	311601	480 INCHES
	2	421601	480 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132241	SMA BULKHEAD JACK
1	-	CSR922	RIGHT ANGLE SMA PLUG FOR 421601, 311601, 311501
-	1	CSS922	STRAIGHT SMA PLUG FOR 421601, 311601, 311501
B	A	PART NUMBER	DESCRIPTION
CONFIGURATION			

1	1	311901	345 INCHES
	#	CABLE TYPE	MAXIMUM LENGTH

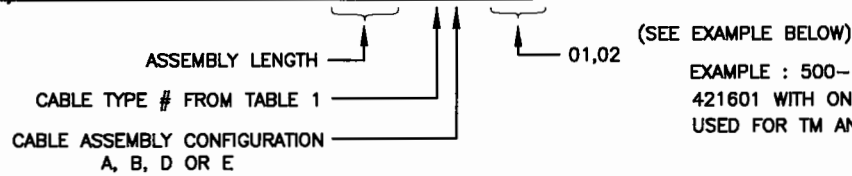
2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132191	SMA BULKHEAD JACK
1	-	CSR722	RIGHT ANGLE SMA PLUG FOR 311901
-	1	CSS722	STRAIGHT SMA PLUG FOR 311901
B	A	PART NUMBER	DESCRIPTION
CONFIGURATION			

CARLISLE		Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE	DATE CODE	LEVEL	DRG. NO.
C	66197		500-104669
SOLD	EFFICIENCY	NONE	SHEET 3 OF 7

**** EAR CONTROLLED ****

TM ANTENNA CABLE ASSEMBLY PART NUMBER

P/N 500-104669-XXX-XX-XX (ALL LENGTHS IN INCHES)



EXAMPLE : 500-104669-320-2A-01 = 320" ASSEMBLY OF 421601 WITH ONE CSS922 AND ONE 132241 USED FOR TM ANTENNA 1.

CABLE ASSEMBLY CONFIGURATIONS

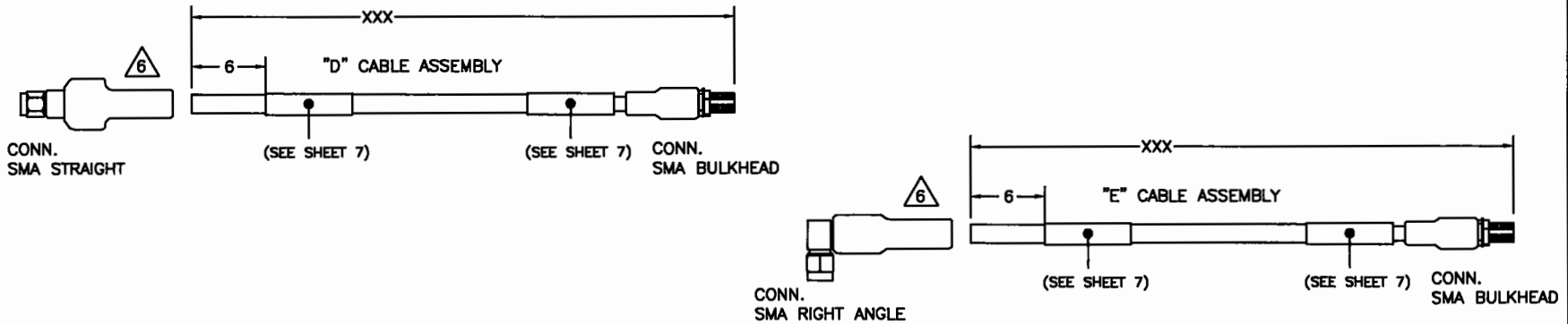


TABLE 1 (COAX CABLE TYPE)

5	6	311201	720 INCHES
	5	421201	660 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

TABLE 2 (COAX CONNECTOR & LABELS)

2	2	TMS-SCE-1/2-2.0-9	1/2 INCH HEAT SHRINK (LABEL)
1	1	132170	SMA FEMALE TO SMA FEMALE BULKHEAD ADAPTER
1	-	CSR122	RIGHT ANGLE SMA PLUG FOR 421201, 311201
1	2	CSS122	STRAIGHT SMA PLUG FOR 421201, 311201
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

4	3	311501	576 INCHES
	3	311601	480 INCHES
	2	421601	480 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132241	SMA BULKHEAD JACK
1	-	CSR922	RIGHT ANGLE SMA PLUG FOR 421601, 311601, 311501
-	1	CSS922	STRAIGHT SMA PLUG FOR 421601, 311601, 311501
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

1	1	311901	345 INCHES
	#	CABLE TYPE	MAXIMUM LENGTH

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132191	SMA BULKHEAD JACK
1	-	CSR722	RIGHT ANGLE SMA PLUG FOR 311901
-	1	CSS722	STRAIGHT SMA PLUG FOR 311901
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

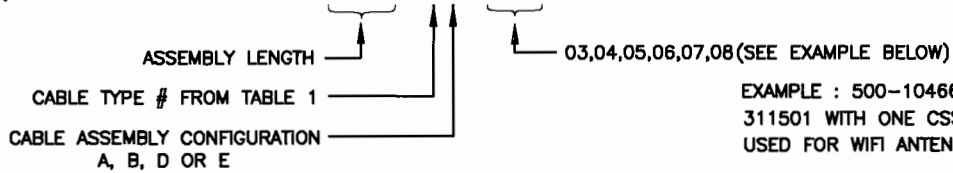
CARLISLE Carlisle Interconnect Technologies
Franklin, WI 53152
414-421-3300

REV. C	DATE CODE 66197	LEVEL	DRG NO. 500-104669
SOLD	ISSUE/REV	NONE	SHEET 4 OF 7

**** EAR CONTROLLED ****

WIFI ANTENNA CABLE ASSEMBLY PART NUMBER

P/N 500-104669-XXX-XX-XX (ALL LENGTHS IN INCHES)



EXAMPLE : 500-104669-320-4A-03 = 320" ASSEMBLY OF 311501 WITH ONE CSS922 AND ONE 132241 USED FOR WIFI ANTENNA 1.

CABLE ASSEMBLY CONFIGURATIONS

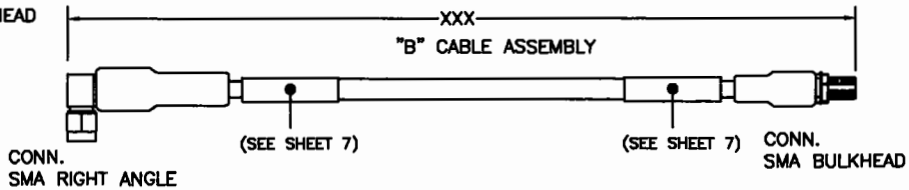
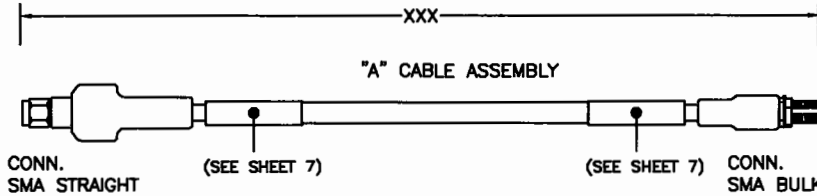


TABLE 1 (COAX CABLE TYPE)

5	6	311201	438 INCHES
	5	421201	384 INCHES
	#	CABLE TYPE	MAXIMUM LENGTH

TABLE 2 (COAX CONNECTOR & LABELS)

2	2	TMS-SCE-1/2-2.0-9	1/2 INCH HEAT SHRINK (LABEL)
1	1	132170	SMA FEMALE TO SMA FEMALE BULKHEAD ADAPTER
1	-	CSR122	RIGHT ANGLE SMA PLUG FOR 421201, 311201
1	2	CSS122	STRAIGHT SMA PLUG FOR 421201, 311201
B	A	PART NUMBER	DESCRIPTION

CONFIGURATION

	4	311501	348 INCHES
	3	311601	288 INCHES
	2	421601	288 INCHES
#	CABLE TYPE	MAXIMUM LENGTH	

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132241	SMA BULKHEAD JACK
1	-	CSR922	RIGHT ANGLE SMA PLUG FOR 421601, 311601, 311501
-	1	CSS922	STRAIGHT SMA PLUG FOR 421601, 311601, 311501
B	A	PART NUMBER	DESCRIPTION

CONFIGURATION

	1	311901	198 INCHES
	#	CABLE TYPE	MAXIMUM LENGTH

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132191	SMA BULKHEAD JACK
1	-	CSR722	RIGHT ANGLE SMA PLUG FOR 311901
-	1	CSS722	STRAIGHT SMA PLUG FOR 311901
B	A	PART NUMBER	DESCRIPTION

CONFIGURATION

CARLISLE		Carlisle Interconnect Technologies	
		Franklin, WI 53132	
		414-421-5300	
SIZE	ORIG. CODE	LEVEL	DWG. NO.
C	66197		500-104669
SCALE	EFFECTS	NONE	SHEET 5 OF 7

**** EAR CONTROLLED ****

WIFI ANTENNA CABLE ASSEMBLY PART NUMBER

P/N 500-104669-XXX-XX-XX (ALL LENGTHS IN INCHES)

ASSEMBLY LENGTH
 CABLE TYPE # FROM TABLE 1
 CABLE ASSEMBLY CONFIGURATION
 A, B, D OR E

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

EXAMPLE : 500-104669-320-4A-03 = 320" ASSEMBLY OF
 311501 WITH ONE CSS922 AND ONE 132241
 USED FOR WIFI ANTENNA 1.

CABLE ASSEMBLY CONFIGURATIONS

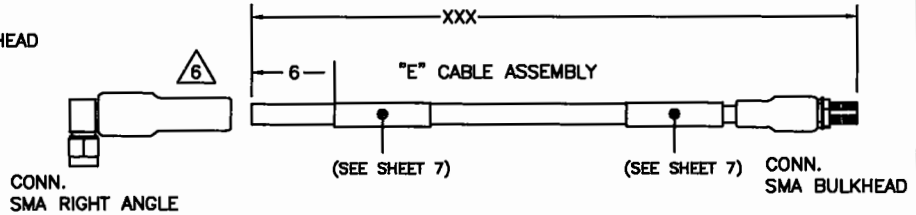
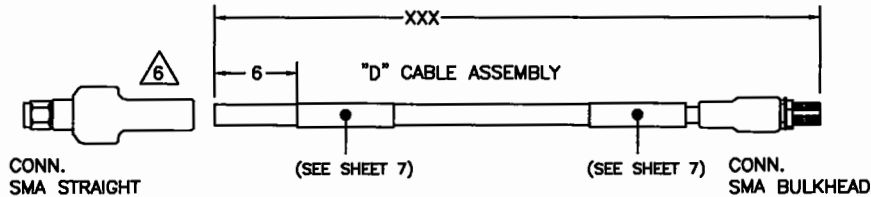


TABLE 1 (COAX CABLE TYPE)

6	311201	438 INCHES
5	421201	384 INCHES
#	CABLE TYPE	MAXIMUM LENGTH

TABLE 2 (COAX CONNECTOR & LABELS)

2	2	TMS-SCE-1/2-2.0-9	1/2 INCH HEAT SHRINK (LABEL)
1	1	132170	SMA FEMALE TO SMA FEMALE BULKHEAD ADAPTER
1	-	CSR122	RIGHT ANGLE SMA PLUG FOR 421201, 311201
1	2	CSS122	STRAIGHT SMA PLUG FOR 421201, 311201
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

4	311501	348 INCHES
3	311601	288 INCHES
2	421601	288 INCHES
#	CABLE TYPE	MAXIMUM LENGTH

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132241	SMA BULKHEAD JACK
1	-	CSR922	RIGHT ANGLE SMA PLUG FOR 421601, 311601, 311501
-	1	CSS922	STRAIGHT SMA PLUG FOR 421601, 311601, 311501
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

1	311901	198 INCHES
#	CABLE TYPE	MAXIMUM LENGTH

2	2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK (LABEL)
1	1	132191	SMA BULKHEAD JACK
1	-	CSR722	RIGHT ANGLE SMA PLUG FOR 311901
-	1	CSS722	STRAIGHT SMA PLUG FOR 311901
E	D	PART NUMBER	DESCRIPTION
CONFIGURATION			

CARISLE		Carisle Interconnect Technologies	
		Franklin, WI 53132	
		414-421-5300	
SIZE	DATE CODE	LEVEL	DWG NO.
C	66197		500-104669
SOLD	EFFECTIVITY	NONE	SHEET 6 OF 7

4

3

2

1

DRG. NO.	SHEET	REV.
500-104669	7	A

**** EAR CONTROLLED ****

D

D

C

C

B

B

A

A

CABLE LABELING

500-104669-XXX-XX-01
 SER# EXXXXX
 TM ANT 1

500-104669-XXX-XX-02
 SER# EXXXXX
 TM ANT 2

500-104669-XXX-XX-03
 SER# EXXXXX
 WIFI ANT 1

500-104669-XXX-XX-04
 SER# EXXXXX
 WIFI ANT 2

500-104669-XXX-XX-05
 SER# EXXXXX
 WIFI ANT 3

500-104669-XXX-XX-06
 SER# EXXXXX
 WIFI ANT 4

500-104669-XXX-XX-07
 SER# EXXXXX
 WIFI ANT 5

500-104669-XXX-XX-08
 SER# EXXXXX
 WIFI ANT 6

CARLISLE		Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE	ORIG CODE	LEN	DRG NO.
C	66197		500-104669
SOLD	APPROXIMATE	NONE	SHEET 7 OF 7

4

3

2

1