

REVISIONS					DATE	APPROVED
ECN	SHT	ZONE	REV	DESCRIPTION OF CHANGE		
76523			NC	INITIAL RELEASE	6/26/2020	L. Goralski

\*\*\*\* EXPORT CONTROLLED DOCUMENT - EAR \*\*\*\*  
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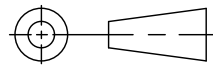

**GENERAL NOTES:**

- ENSURE ALL WIRING PRACTICES ARE IN ACCORDANCE WITH THE FOLLOWING ORDER OF PRECEDENCE:  
 A) THIS DRAWING
- WIRE NUMBER MARKING:  
  
 WHEN POSSIBLE, WIRES AND CABLES ARE TO BE INDELIBLY LASER MARKED WITH INFORMATION FROM WIRE LIST. MARKING INTERVAL IS TO BE AT 12 INCHES MAXIMUM.  
  
 WHEN LASER MARKING IS NOT POSSIBLE, WIRES AND CABLES ARE TO HAVE INDELIBLY MARKED LABELS WITH INFORMATION FROM WIRE LIST. MARKING INTERVAL IS THEN TO BE APPROXIMATELY EVERY 68 INCHES WITH A MAXIMUM 72 INCH INTERVAL.

**ASSEMBLY NOTES:**

- HARNESS LENGTH AND BREAKOUT LENGTH TOLERANCE (NO BENDS):  
 LENGTH | 4-24 | 25-120 | 121-600 | 601-1200 | 1201 AND UP |  
 TOL | +0.5/-0.5 | +3.0/-3.0 | +6.0/-6.0 | +12.0/-12.0 | +24.0/-24.0 |
- PROTECT CONNECTORS FROM CONTAMINATION AND DAMAGE DURING SHIPPING AND HANDLING (DUST CAPS PREFERABLE).
- BAG & IDENTIFY KITS AS FOLLOWS:  
  
 SMARTSKY ABR P2 HARNESS  
 P/N 600-106579-XXX/XXX/XXX/XXX  
 REV: (CURRENT DRAWING REVISION)

- 6 FILL UNUSED POSITION WITH CONTACTS.
- 7 WIRE QUANTITY = HPB + FDQ
- 8 WIRE QUANTITY = CWAP + MAINTENANCE RJ45
- 9 SET KEYING ORIENTATION TO POSITION 1
- 10 PRINT INFORMATION ON LABELS (ITEMS 13 AND 14) AS SHOWN. DO NOT SHRINK AND INSTALL APPROXIMATELY 6 INCHES FROM THE END OF WIRE.
- 11 TERMINATE PER DETAIL A
- 12 TERMINATE PER DETAIL B
- 13 MACHINE PRINT IDENTIFICATION LABELS (ITEM 15) WITH MARKING SHOWN AND AFFIX TO HARNESS APPROXIMATELY 12 INCHES FROM CONNECTOR WITH TIE WRAP (ITEM 16).

<p><b>CAD GENERATED DOCUMENT</b></p> <p>ANY CHANGES TO THIS DOCUMENT MUST BE SUBMITTED TO THE DESIGN DRAFTING DEPARTMENT FOR PROPER UPDATE</p> <p>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.</p>	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>ALL DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:                      .XX ± .03                      .XXX ± .01</p> <p>THIRD ANGLE PROJECTION</p> 	<p>CONTRACT NO.</p>		 <p>Carlisle Interconnect Technologies                      Franklin, WI 53132                      414-421-5300</p>																	
		<table border="1"> <tr> <td>DRAWN</td> <td>S. SHAFFER</td> <td>10/9/19</td> </tr> <tr> <td>CHECKED</td> <td>L. GORALSKI</td> <td>6/26/20</td> </tr> <tr> <td>DESIGNED</td> <td>E. MARTINEZ</td> <td>10/9/19</td> </tr> <tr> <td>PROJECT</td> <td>R. LAY</td> <td>6/26/20</td> </tr> <tr> <td>MFG</td> <td>M. MOUA</td> <td>6/26/20</td> </tr> <tr> <td>ENG</td> <td>L. GORALSKI</td> <td>6/26/20</td> </tr> </table>			DRAWN	S. SHAFFER	10/9/19	CHECKED	L. GORALSKI	6/26/20	DESIGNED	E. MARTINEZ	10/9/19	PROJECT	R. LAY	6/26/20	MFG	M. MOUA	6/26/20	ENG	L. GORALSKI
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ENG	L. GORALSKI	6/26/20																			
		<p>SIZE: D</p>	<p>CAGE CODE: 66197</p>	<p>LEVEL: H</p>	<p>DWG NO. 600-106579</p>																
		<p>SCALE: NONE</p>	<p>EFFECTIVITY:</p>		<p>SHEET: 1 OF 5</p>																

8

7

6

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3

DWG NO. 600-106579 SHEET 2 REV. NC

1

\*\*\*\* EAR CONTROLLED \*\*\*\*

H

H

G

G

F

F

E

E

D

D

C

C

B

B

A

A

1	DMC-M00-00PN	BLANKING MODULE	-	17
6	T18R-9	TIE WRAP	-	16
3	CM-SCE-1/4-4H-9	1/4 INCH LABEL	-	15
2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK LABEL	-	14
2	TMS-SCE-1/4-2.0-9	1/4 INCH HEAT SHRINK LABEL	-	13
A/R	M23053/4-204-0	.712 INCH BLACK ADHESIVE HEAT SHRINK	-	12
A/R	M23053/4-303-0	.470 INCH BLACK ADHESIVE HEAT SHRINK	-	11
1	HSB-2-1	BOOT SEAL	-	10
A/R	AA59569R36T0500	TUBULAR BRAID WIRE	-	9
6	600-057-1	BANDING STRAP	-	8
1	732-8052-13A	DMC BLANK CHIMNEY	-	7
1	732-8052-10A	4 MODULE PLUG BACKSHELL W/O CHIMNEYS	-	6
3	DMC-M20-22SN	20X22 GA SOCKET MODULE INSERT KIT (P2-A, P2-C, P2-D)	-	5
3	732-8052-18A	DMC CHIMNEY, NON-ROTATION	-	4
1	DMC-M80-01	4 MODULE PLUG HOUSING	-	3
XXX	922408	CABLE, 24AWG 8 COND	-	2
XXX	922404	CABLE, 24AWG 4 COND	-	1
	600-106579-XXX/XXX/XXX/XXX	ABR P2 HARNESS ASSEMBLY	-	-
QTY				
-XXX/XXX/XXX/XXX	COMPONENTS PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ALTERNATE PART NUMBER	ITEM NO.
ASSY NO				



PARTS LIST (LENGTHS IN INCHES)

THIRD ANGLE PROJECTION

Carlisle Interconnect Technologies  
Franklin, WI 53132  
414-421-5300

SIZE: D	CAGE CODE: 66197	LEVEL: H	DWG NO.: 600-106579
SCALE: NONE		EFFECTIVITY:	
			SHEET: 2 OF 5

8

7

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3

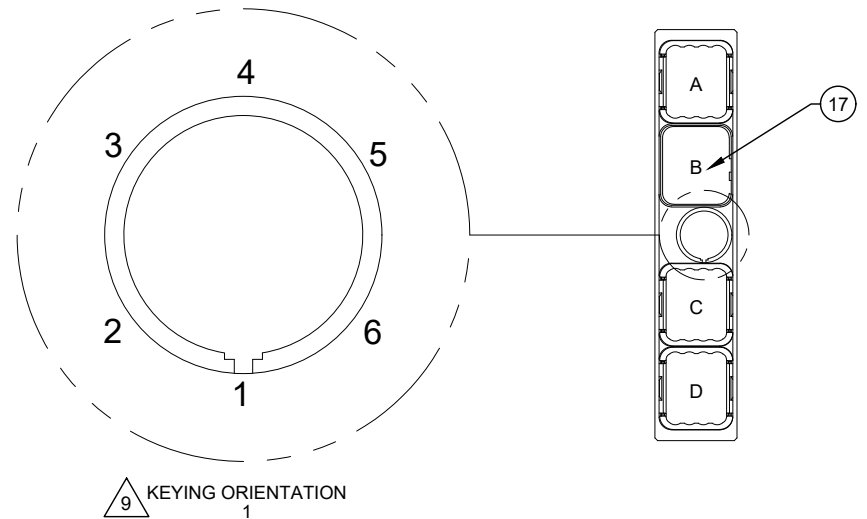
2

1

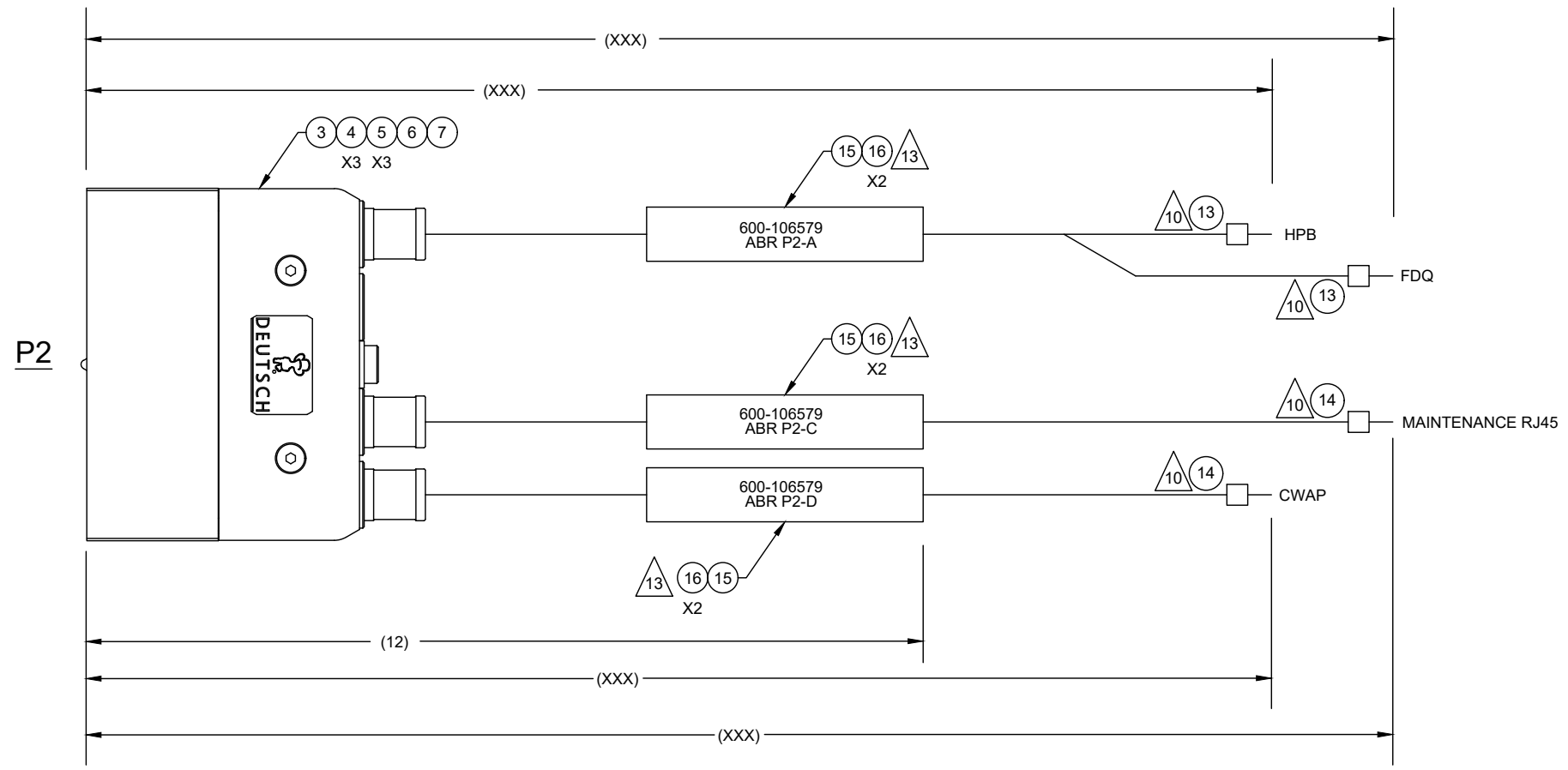
\*\*\*\* EAR CONTROLLED \*\*\*\*

**EXAMPLE KIT PART NUMBER**  
**SMARTSKY HARNESS: 600-106579-132/064/168/302**

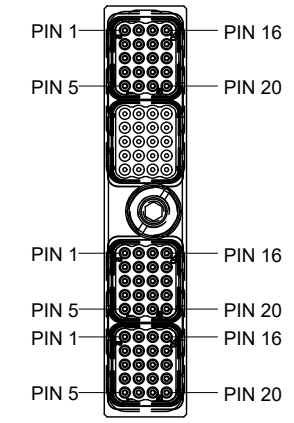
CWAP LENGTH (IN)      FDQ LENGTH (IN)  
 MAINTENANCE RJ45 LENGTH (IN)      HPB LENGTH (IN)



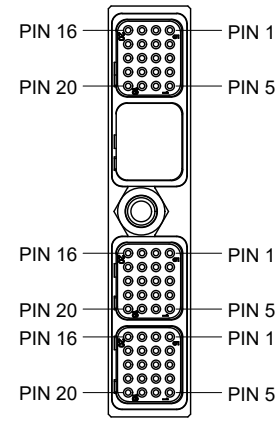
6	UNUSED POSITIONS
	P2-A = 1-10, 13, 18
	P2-C = 1-10, 13, 18
	P2-D = 3, 8, 11-20



**-XXX/XXX/XXX/XXX HARNESS ASSEMBLY**



**MATING VIEW**



**WIRING VIEW**

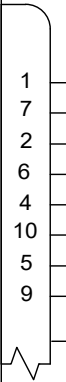
THIRD ANGLE PROJECTION		<b>CARLISLE</b> Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE: D	CAGE CODE: 66197	LEVEL: H	DWG NO: 600-106579
SCALE: NONE	EFFECTIVITY:	SHEET: 3 OF 5	

\*\*\*\* EAR CONTROLLED \*\*\*\*

AIRCRAFT BASE RADIO (ABR)

CWAP\_ETH  
(1000BASE-T)  
BI\_DA+ 1  
BI\_DA- 7  
BI\_DB+ 2  
BI\_DB- 6  
BI\_DC+ 4  
BI\_DC- 10  
BI\_DD+ 5  
BI\_DD- 9

ABR P2-D<sup>12</sup>

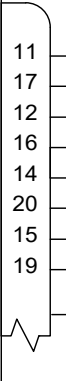


XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

REF. CWAP  
MANUFACTURER'S  
INSTALLATION MANUAL

MAINTENANCE\_ETH  
(1000BASE-T)  
BI\_DA+ 11  
BI\_DA- 17  
BI\_DB+ 12  
BI\_DB- 16  
BI\_DC+ 14  
BI\_DC- 20  
BI\_DD+ 15  
BI\_DD- 19

ABR P2-C<sup>12</sup>

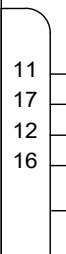


XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

MAINTENANCE  
INTERFACE RJ45

FDQ RS485 TX+ 11  
FDQ RS485 TX- 17  
FDQ RS485 RX+ 12  
FDQ RS485 RX- 16

ABR P2-A<sup>11</sup>



XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX

(FDQ) FULL-DUPLEX QUAD ANTENNA  
FDQ RS485 TX+  
FDQ RS485 TX-  
FDQ RS485 RX+  
FDQ RS485 RX-

HPB RS485 TX+ 14  
HPB RS485 TX- 20  
HPB RS485 RX+ 15  
HPB RS485 RX- 19

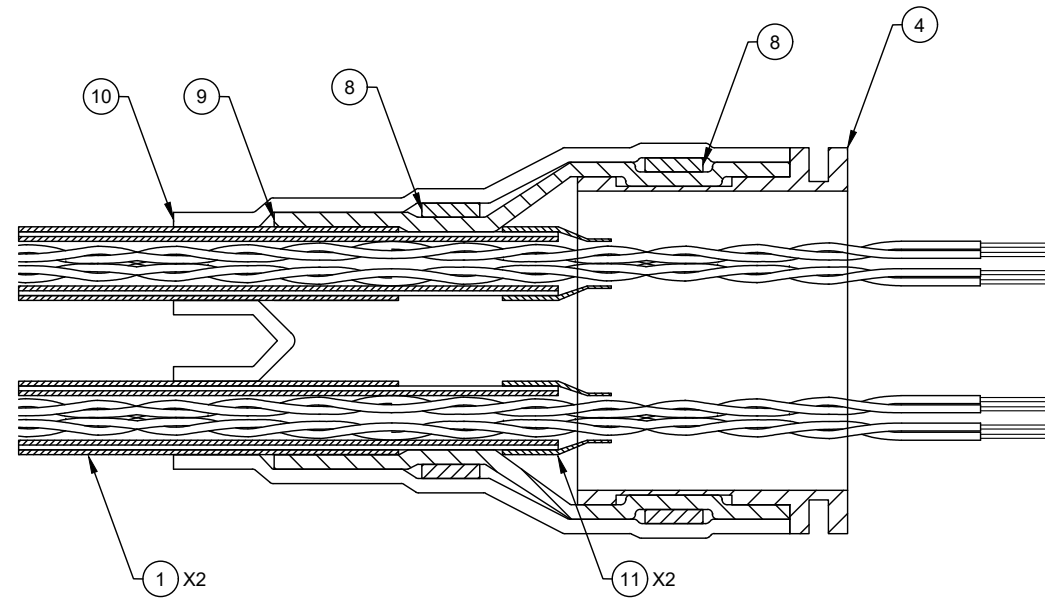
(HPB) HIGH PERFORMANCE BLADE  
HPB RS485 TX+  
HPB RS485 TX-  
HPB RS485 RX+  
HPB RS485 RX-

THIRD ANGLE PROJECTION

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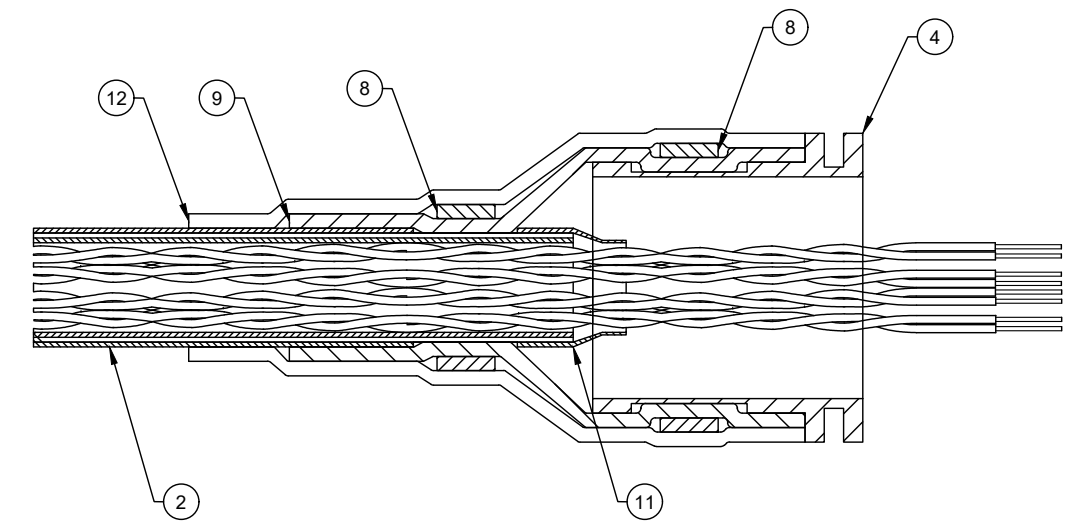
SIZE	CAGE CODE	LEVEL	DWG NO.
D	66197	H	600-106579
SCALE: NONE		EFFECTIVITY:	SHEET: 4 OF 5

\*\*\*\* EAR CONTROLLED \*\*\*\*



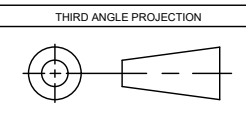
11 DETAIL A

- STEP 1: STRIP OUTER CABLE JACKET 4 INCHES TO UNCOVER SHIELDING. STRIP 3 INCHES OF BOTH LAYERS OF SHIELDING TO UNCOVER WIRES.
- STEP 2: AFTER STRIPPING, SECURE ENDS OF BRAIDED SHIELD WITH 1 INCH OF INSULATION SLEEVING (ITEM 11).
- STEP 3: SLIDE BOOT SEAL (ITEM 10) LENGTH OF BRAID WIRE (ITEM 9), AND CHIMNEY (ITEM 4) ONTO CABLES.
- STEP 4: FIT THE LENGTH OF BRAID WIRE (ITEM 9) , SUCH THAT IT COVERS THE CABLE OUTER JACKET, THE EXPOSED CABLE SHIELD, AND THE CONNECTOR CHIMNEY. SECURE ONE END OF THE BRAID (ITEM 9) TO THE CONNECTOR CHIMNEY USING TIE DOWN STRIP (ITEM 8). SECURE THE OTHER END OF THE BRAID WIRE (ITEM 9) ON THE CABLE SHIELD USING TIE DOWN STRAP (ITEM 8).
- STEP 5: COMPLETELY COVER BRAID WIRE (ITEM 9) USING BOOT SEAL (ITEM 10).



12 DETAIL B

- STEP 1: STRIP OUTER CABLE JACKET 4 INCHES TO UNCOVER SHIELDING. STRIP 3 INCHES OF BOTH LAYERS OF SHIELDING TO UNCOVER WIRES.
- STEP 2: AFTER STRIPPING, SECURE ENDS OF BRAIDED SHIELD WITH 1 INCH OF INSULATION SLEEVING (ITEM 11).
- STEP 3: SLIDE INSULATION SLEEVING (ITEM 12) LENGTH OF BRAID WIRE (ITEM 9), AND CHIMNEY (ITEM 4) ONTO CABLES.
- STEP 4: FIT THE LENGTH OF BRAID WIRE (ITEM 9) , SUCH THAT IT COVERS THE CABLE OUTER JACKET, THE EXPOSED CABLE SHIELD, AND THE CONNECTOR CHIMNEY. SECURE ONE END OF THE BRAID (ITEM 9) TO THE CONNECTOR CHIMNEY USING TIE DOWN STRIP (ITEM 8). SECURE THE OTHER END OF THE BRAID WIRE (ITEM 9) ON THE CABLE SHIELD USING TIE DOWN STRAP (ITEM 8).
- STEP 5: COMPLETELY COVER BRAID WIRE (ITEM 9) USING INSULATION SLEEVING (ITEM 12).



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SIZE	CAGE CODE	LEVEL	DWG NO.
D	66197	H	600-106579
SCALE: NONE		EFFECTIVITY:	SHEET: 5 OF 5