

REVISIONS

ECN	SHT	ZONE	REV	DESCRIPTION OF CHANGE	DATE	APPROVED
76523			NC	INITIAL RELEASE	6/23/2020	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:


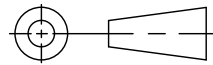
 WHEN POSSIBLE, WIRES AND CABLES ARE TO BE INDELIBLY LASER MARKED WITH INFORMATION FROM WIRE LIST. MARKING INTERVAL IS TO BE AT 12 INCHES MAXIMUM.

 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 P1 HARNESS
 P/N 600-106578-XXX/XXX/XXX/XXX
 REV: (CURRENT DRAWING REVISION)
- 6 FILL UNUSED POSITION WITH CONTACTS.
- 7 WIRE QUANTITY = HPB + FDQ
- 8 WIRE QUANTITY = GROUND + AC POWER 28V
- 9 SET KEYING ORIENTATION TO POSITION 1
- 10 PRINT INFORMATION ON LABELS (ITEMS 18 AND 19) 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 20) WITH MARKING SHOWN AND AFFIX TO HARNESS APPROXIMATELY 12 INCHES FROM CONNECTOR WITH TIE WRAP (ITEM 21).

CAD GENERATED DOCUMENT ANY CHANGES TO THIS DOCUMENT MUST BE SUBMITTED TO THE DESIGN DRAFTING DEPARTMENT FOR PROPER UPDATE 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.	UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± .03 .XXX ± .01	CONTRACT NO. 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 6/26/20	 Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300 TITLE: SMARTSKY ABR P1 HARNESS
	 THIRD ANGLE PROJECTION	SIZE D 66197 SCALE: NONE CAGE CODE H 600-106578 LEVEL H DWG NO. 600-106578 EFFECTIVITY: SHEET: 1 OF 5	

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DWG NO. 600-106578 SHEET 2 REV. NC

1

**** EAR CONTROLLED ****

H

H

G

G

F

F

E

E

D

D

C

C

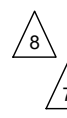
B

B

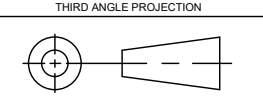
A

A

4	T18R-9	TIE WRAP	-	21
2	CM-SCE-1/4-4H-9	1/4 INCH LABEL	-	20
2	TMS-SCE-3/8-2.0-9	3/8 INCH HEAT SHRINK LABEL	-	19
2	TMS-SCE-1/4-2.0-9	1/4 INCH HEAT SHRINK LABEL	-	18
2	M83519/2-X	SOLDER SLEEVE	-	17
A/R	M23053/5-102-0	1/16 INCH BLACK HEAT SHRINK	-	16
A/R	M23053/4-204-0	.712 INCH BLACK ADHESIVE HEAT SHRINK	-	15
A/R	M23053/4-303-0	.470 INCH BLACK ADHESIVE HEAT SHRINK	-	14
A/R	M23053/4-202-0	.355 INCH BLACK ADHESIVE HEAT SHRINK	-	13
1	HSB-2-1	BOOT SEAL	-	12
A/R	AA59569R36T0500	TUBULAR BRAID WIRE	-	11
2	M83519/1-5	SOLDER SLEEVE	-	10
3	600-057-1	BANDING STRAP	-	9
1	DMC-M 40-01	2 MODULE PLUG HOUSING	-	8
1	732-8052-14A	2 MODULE PLUG BACKSHELL W/O CHIMNEYS	-	7
1	DMC-M04-12SN	12 GA SOCKET MODULE INSERT (P1-A)	-	6
1	DMC-M20-22SN	20X22 GA SOCKET MODULE INSERT KIT (P2-A, P2-C, P2-D)	-	5
2	732-8052-18A	DMC CHIMNEY, NON-ROTATION	-	4
A/R	M27500-12TG1T14	CABLE, 12 AWG 1 COND	-	3
A/R	M27500-14TG1T14	CABLE, 14 AWG 1 COND	-	2
A/R	M27500-22TG4T14	CABLE, 22AWG 4 COND	-	1
	600-106578	SMARTSKY P1 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 Carlisle Interconnect Technologies
Franklin, WI 53132
414-421-5300

SIZE	CAGE CODE	LEVEL	DWG NO.
D	66197	H	600-106578
SCALE: NONE	EFFECTIVITY:	SHEET: 2 OF 5	

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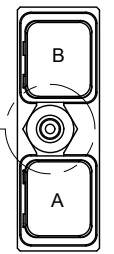
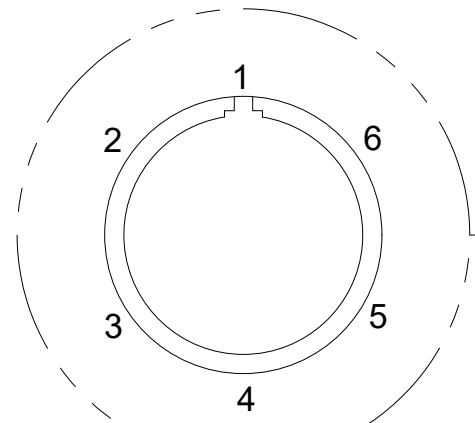
2

1

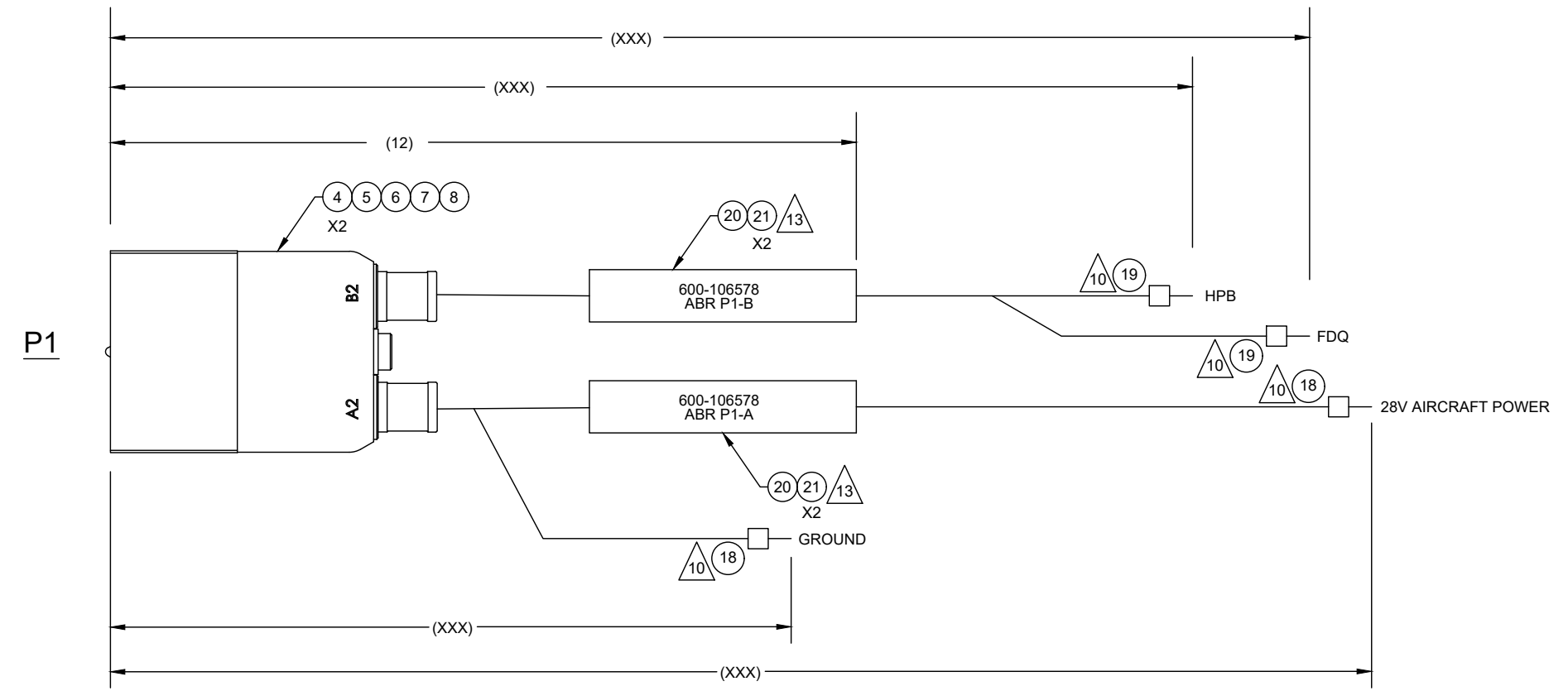
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EXAMPLE KIT PART NUMBER
SMARTSKY HARNESS: 600-106578-132/064/168/302

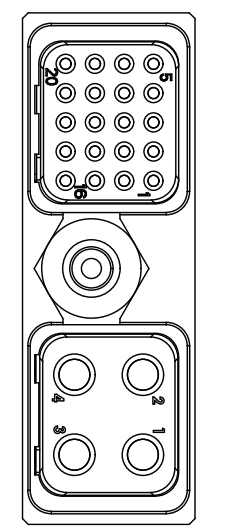
GROUND LENGTH (IN) FDQ LENGTH (IN)
 28V AIRCRAFT POWER LENGTH (IN) HPB LENGTH (IN)



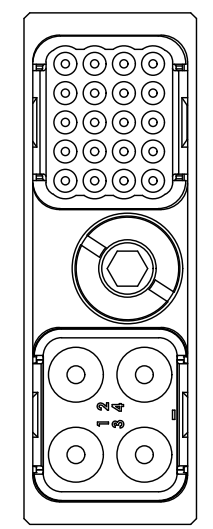
△ 6	UNUSED POSITIONS
	P1-A = 2, 4
	P1-B = 1, 6, 11-20



-XXX/XXX/XXX/XXX HARNESS ASSEMBLY



MATING VIEW

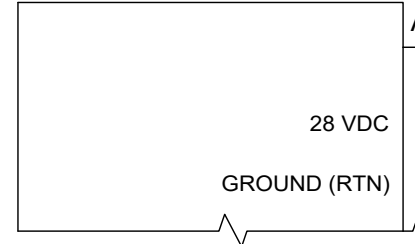


WIRING VIEW

THIRD ANGLE PROJECTION		CARLISLE Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE: D	CAGE CODE: 66197	LEVEL: H	DWG NO: 600-106578
SCALE: NONE	EFFECTIVITY:	SHEET: 3 OF 5	

**** EAR CONTROLLED ****

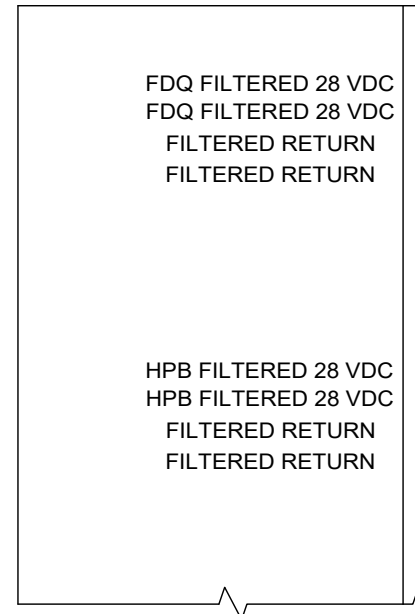
AIRCRAFT BASE RADIO (ABR)



ABR P1-A ¹¹

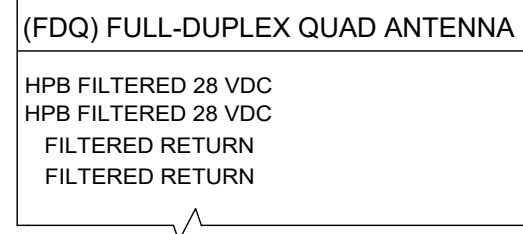
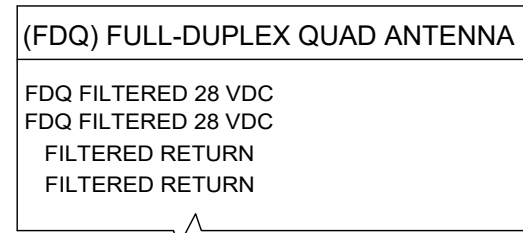
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XXXXXXX

28V AIRCRAFT POWER
(15A BKR)
GROUND (RTN)



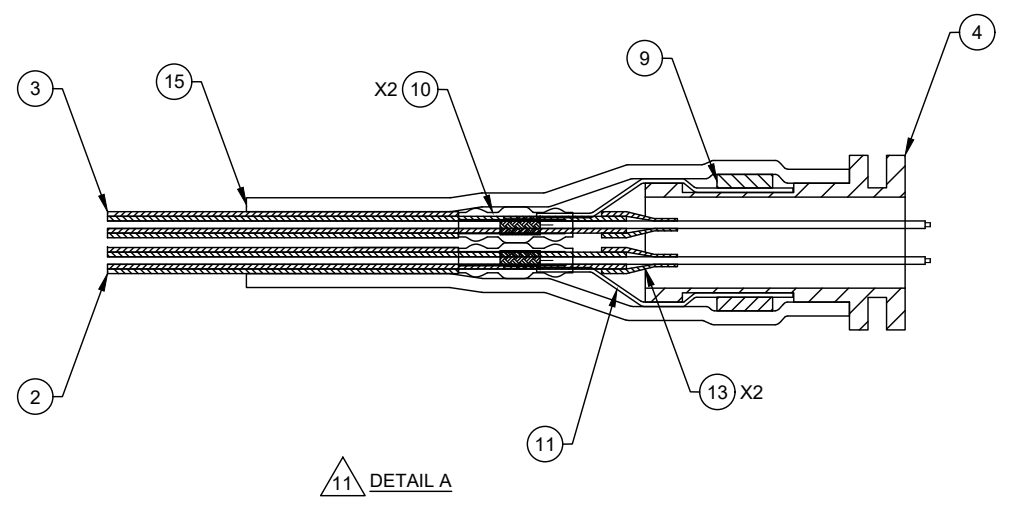
ABR P1-B ¹²

XXXXXXX
XXXXXXX
XXXXXXX
XXXXXXX

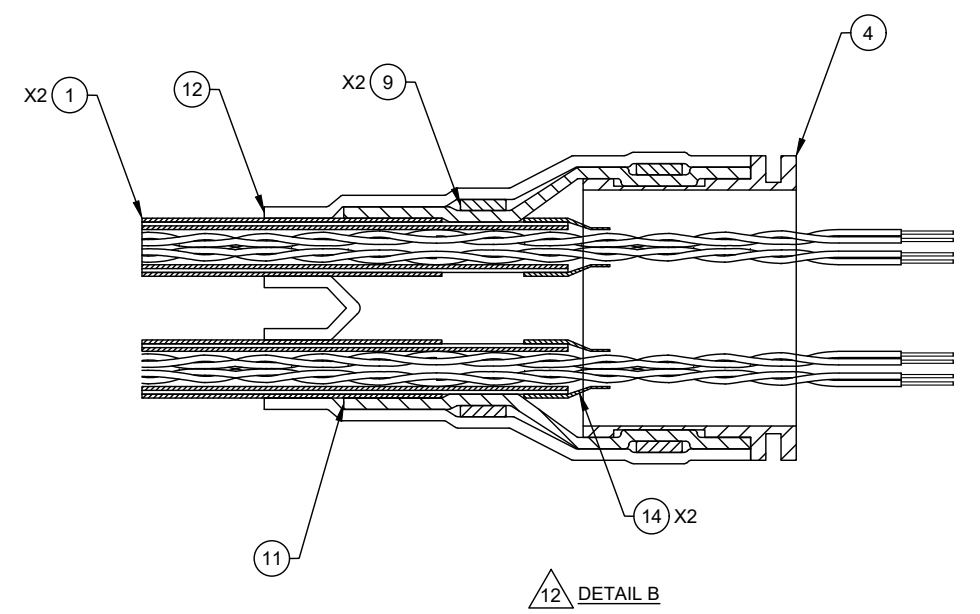


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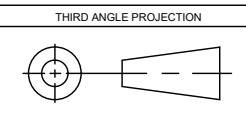
**** EAR CONTROLLED ****



- STEP 1: STRIP OUTER CABLE JACKET 3 INCHES TO UNCOVER SHIELDING. STRIP 2 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 13).
- STEP 3: SLIDE BOOT SEAL (ITEM 15) LENGTH OF BRAID WIRE (ITEM 11), AND CHIMNEY (ITEM 4) ONTO CABLES.
- STEP 4: FIT THE LENGTH OF BRAID WIRE (ITEM 11) , SUCH THAT IT COVERS THE CABLE OUTER JACKET, THE EXPOSED CABLE SHIELD, AND THE CONNECTOR CHIMNEY. SECURE ONE END OF THE BRAID (ITEM 11) TO THE CONNECTOR CHIMNEY USING TIE DOWN STRIP (ITEM 9). SECURE THE OTHER END OF THE BRAID WIRE (ITEM 11) ON THE CABLE SHIELD USING TIE DOWN STRAP (ITEM 9).
- STEP 5: COMPLETELY COVER BRAID WIRE (ITEM 11) USING BOOT SEAL (ITEM 12).



- 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 14).
- STEP 3: SLIDE INSULATION SLEEVING (ITEM 12) LENGTH OF BRAID WIRE (ITEM 11), AND CHIMNEY (ITEM 4) ONTO CABLES.
- STEP 4: FIT THE LENGTH OF BRAID WIRE (ITEM 11) , SUCH THAT IT COVERS THE CABLE OUTER JACKET, THE EXPOSED CABLE SHIELD, AND THE CONNECTOR CHIMNEY. SECURE ONE END OF THE BRAID (ITEM 11) TO THE CONNECTOR CHIMNEY USING TIE DOWN STRIP (ITEM 8). SECURE THE OTHER END OF THE BRAID WIRE (ITEM 11) ON THE CABLE SHIELD USING TIE DOWN STRAP (ITEM 9).
- STEP 5: COMPLETELY COVER BRAID WIRE (ITEM 11) USING INSULATION SLEEVING (ITEM ?).



CARLISLE		Carlisle Interconnect Technologies Franklin, WI 53132 414-421-5300	
SIZE D 66197	CAGE CODE H	LEVEL H	DWG NO. 600-106578
SCALE: NONE	EFFECTIVITY:	SHEET: 5 OF 5	