

REVISIONS			
REV	DESCRIPTION	DATE	ECO No.
1	INITIAL RELEASE	02/02/10	---

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TOLERANCE UNLESS NOTED OTHERWISE	DRWN. JAS	DATE 02/02/10
ENGLISH UNITS .XX ± .010 .XXX ± .005 HOLES ± .003 METRIC UNITS .X ± .25 .XX ± .13 HOLES ± .08 ANGLES ± 0.5°	CHKD.	
	RLS BY	
	PROJ. MGR.	

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Garmin Ltd. or its subsidiaries
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1200 E. 151st Street
Olathe, Kansas 66062 U.S.A.

TITLE G500H TRAFFIC HARNESS ASSEMBLY		
SIZE B	DWG. NO. 005-W0222-08	REV. 1
SCALE N/A	DER REVIEW REQUIRED	SHT. 1 OF 10

PARTS LIST

ITEM	P/N	DESCRIPTION	QTY	SUPPLIER	WHERE USED	NOTE
1	MIL-W-22759/18	Stranded wire, (24 AWG or larger)	A/R			OR Equivalent
2	MIL-W-M27500 cable utilizing M22759/18 wire (TG) and ETFE jacket (14), shield coverage (A or -), shield material (T)	Single conductor shielded wire (24 AWG or larger)				See Note 1
3		2-conductor twisted, shielded cable (24 AWG or larger)	A/R			
4		3-conductor twisted, shielded cable (24 AWG or larger)				
5		4-conductor twisted, shielded cable (24 AWG or larger)				
6	Not Used					
7		Shield Termination	A/R			Solder sleeves with pre-installed shield drains may be used instead of separate shield terminators and individual wires.
8	D-436-37	Raychem Environmental Splice	A/R			Optional, See Figure 1
9		Flat Braid, 19-20 AWG	A/R			
10	011-01656-00	Connector Kit, GDU 620 (Incl. Config. Module)		Garmin	P6201,P6202, P6203	
11	Not Used					
12	011-00869-01	Connector Kit, GRS 77 (Incl. Config. Module)		Garmin	P771	
13	Not Used					
14	Not Used					
15	Not Used					
16	Not Used					
17	Not Used					
18	Not Used					
19	Not Used					
20	Not Used					
21	Not Used					
22	336-00021-00	Cont,Pin,Mil Crimp,Size 22D	A/R	Garmin	(P3301), (P8001), (P8002)	Included in Connector Kit
23	Not Used					
24	Not Used					
25	Not Used					
26	E10424 392404	24 AWG Ethernet Cable	A/R	PIC ECS		Use one of these type of Ethernet Cable
27	Not Used					
28	M39029/56-348	#22D Crimp Terminals	A/R		(P1) - SKY497, (P1) - SKY899	Included in Connector Kit
29	608036-1	Silicon Fusion Tape	A/R	AMP		
30	MS25036-149	Ring terminal, #8, insulated,18-22 AWG	A/R			OR Equivalent
31	NAS1149CN832 R, NAS1149FN832 P	Flat Washer, #8, .032" thick, .174"ID, .375" OD, Stainless or Cad Plated Steel	A/R			
32	MS35338-137, MS35338-42	Split Washer, #8, (.045" compressed thickness) Stainless or Cad plated steel	A/R			
33	MS51957-42, MS35206-242	Screw, PHP, 8 32x.312", Stainless or Cad Plated Steel	A/R			
34	336-00029-00	Contact for shield grounds (AMP 58385-4)	A/R	Garmin		Included in connector kits
35	Not Used					
36	Not Used					

HARNESS CONNECTOR PARTS LIST

DESIGNATOR	PART NUMBER	DESCRIPTION	QTY	REMARKS
P6202	330-00502-50	Conn,Dsub,MIL Crimp Socket,50		GDU 620 PFD (from 011-01656-00)
	115-00499-03	Clamp,Backshell,62/78 Pin		
	115-00500-04	Cover,Backshell,50/78 Pin		
	125-00085-00	Backshell w/Config 50/78 Pin		
	211-60234-10	Screw,4-40x.375,PHP,SS/P,w/NYL		
	211-63234-06	Screw,4-40x.187,FLHP100,SS/P,w		
	117-00147-01	Adapter,Ring Term,Shell SZ 4&5		
	211-63234-08	Screw,4-40x.250,FLHP 100,SS/P,		
	330-90006-04	DSub Slide Lock Kit,50/78 Pin		
	012-00605-00	PCB Assy,Config Mdl,w/EEPROM		
	213-00043-00	Spacer,Config Module		
	325-00122-00	Harness,4 Cond,Config Module		
	336-00022-01	Cont,Sckt,Mil Crp,Size 20,26-3		
P6201	330-00502-37	Conn,Dsub,MIL Crimp Socket,37		GDU 620 PFD (from 011-01656-00)
	115-00499-03	Clamp,Backshell,62/78 Pin		
	115-00500-03	Cover,Backshell,37/62 Pin		
	125-00084-00	Backshell w/Config 37/62 Pin		
	211-60234-10	Screw,4-40x.375,PHP,SS/P,w/NYL		
	211-63234-06	Screw,4-40x.187,FLHP100,SS/P,w		
	117-00147-01	Adapter,Ring Term,Shell SZ 4&5		
	211-63234-08	Screw,4-40x.250,FLHP 100,SS/P,		
	330-90006-03	DSub Slide Lock Kit,37/62 Pin		GDU 620 PFD (from 011-01656-00)
	336-00022-00	Cont,Sckt,Mil Crp,Size 20	1+	
P6203	330-00366-62	Conn,Male,HD Dsub,62 CKT		
	115-00499-03	Clamp,Backshell,62/78 Pin		
	115-00500-03	Cover,Backshell,37/62 Pin		
	125-00084-00	Backshell w/Config 37/62 Pin		
	211-60234-10	Screw,4-40x.375,PHP,SS/P,w/NYL		
	211-63234-06	Screw,4-40x.187,FLHP100,SS/P,w		
	117-00147-01	Adapter,Ring Term,Shell SZ 4&5		GRS 77H AHRS (from 011-00869-01)
	211-63234-08	Screw,4-40x.250,FLHP 100,SS/P,		
	330-90006-03	DSub Slide Lock Kit,37/62 Pin		
	336-00021-00	Cont,Pin,Mil Crimp,Size 22D	2	
P771	330-00366-44	Conn,Male,hd Dsub,44CKT		
	115-00499-02	Clamp,Backshell,25/44 Pin		
	115-00500-02	Cover,Backshell,25/44 Pin		
	125-00083-00	Backshell w/Config 25/44 Pin		
	211-60234-10	Screw,4-40x.375,PHP,SS/P,w/NYL		GTX 33(ES)/330(ES) (from 011-00583-00)
	211-63234-06	Screw,4-40x.187,FLHP100,SS/P,w		
	117-00147-00	Adapter,Ring Term,Shell SZ 1,2		
	211-63234-08	Screw,4-40x.250,FLHP 100,SS/P,		
	330-90006-02	DSub Slide Lock Kit,25/44 Pin		
	336-00021-00	Cont,Pin,Mil Crimp,Size 22D	2	
	012-00605-00	PCB Assy,Config Mdl,w/EEPROM		
	213-00043-00	Spacer,Config Module		
	325-00122-00	Harness,4 Cond,Config Module		GTX 33(ES)/330(ES) (from 011-00583-00)
(P3301)	330-00185-62	Conn,HiDens,D-Sub,Mil Crp 62ck		
	211-60234-12	Screw,4-40x.500,PHP,SS/P,w/NYL		
	211-63234-12	Scr,4-40x.500,FLHP100,SS/P,Nyl		
	125-00056-00	DCP,Nut Plate,D-Sub,37 Pos		
	330-00220-37	Bkshl,D-sub,Metal,37Pos		
	336-00021-00	Cont,Pin,Mil Crimp,Size 22D	5	
	330-00228-20	Conn,Edge Card,20 Pos		
	336-00029-00	Conn Contact		L3 COMM SKY497 (from 817-10800-xxx)
(P1) - TRC 497	605-10205-001	I/O Connector, 100-Position, Female, (Mil-C-38999 Series III)		
	M39029/56-348	#22D Crimp Terminals	9	L3 COMM SKY899 (from 817-11900-xxx)
(P1) - TRC 899	605-10251-001	I/O Connector, 100-Position, Female, (Mil-C-38999 Series III)		
	M39029/56-348	#22D Crimp Terminals	6	Honeywell KTA 870 KMH 880
(J10)	Existing	Existing Connector		
		Connector Contacts	8	Awydine TAS 6XX/9900BX (from kit 61-2005)
(P1) - AVIDYNE TAS	Existing	25-pin 'D' Socket Connector, jackscrews, pins and shell kit		
		pins	4	GTS 8XX (011-01360-00)
(P8001)/(P8002)	330-00366-78	Conn,Male,HD Dsub,78 CKT		
	330-00502-37	Conn,Dsub,MIL Crimp Socket,37 ckt		
	336-00021-00	Cont,Pin,Mil Crimp,Size 22D	10	
	336-00022-00	Cont,Sckt,Mil Crp,Size 20		
	336-00023-00	Cont,Sckt,Mil Crp,Sz 20,18 AWG		

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SIZE
B

DWG. NO.
005-W0222-08

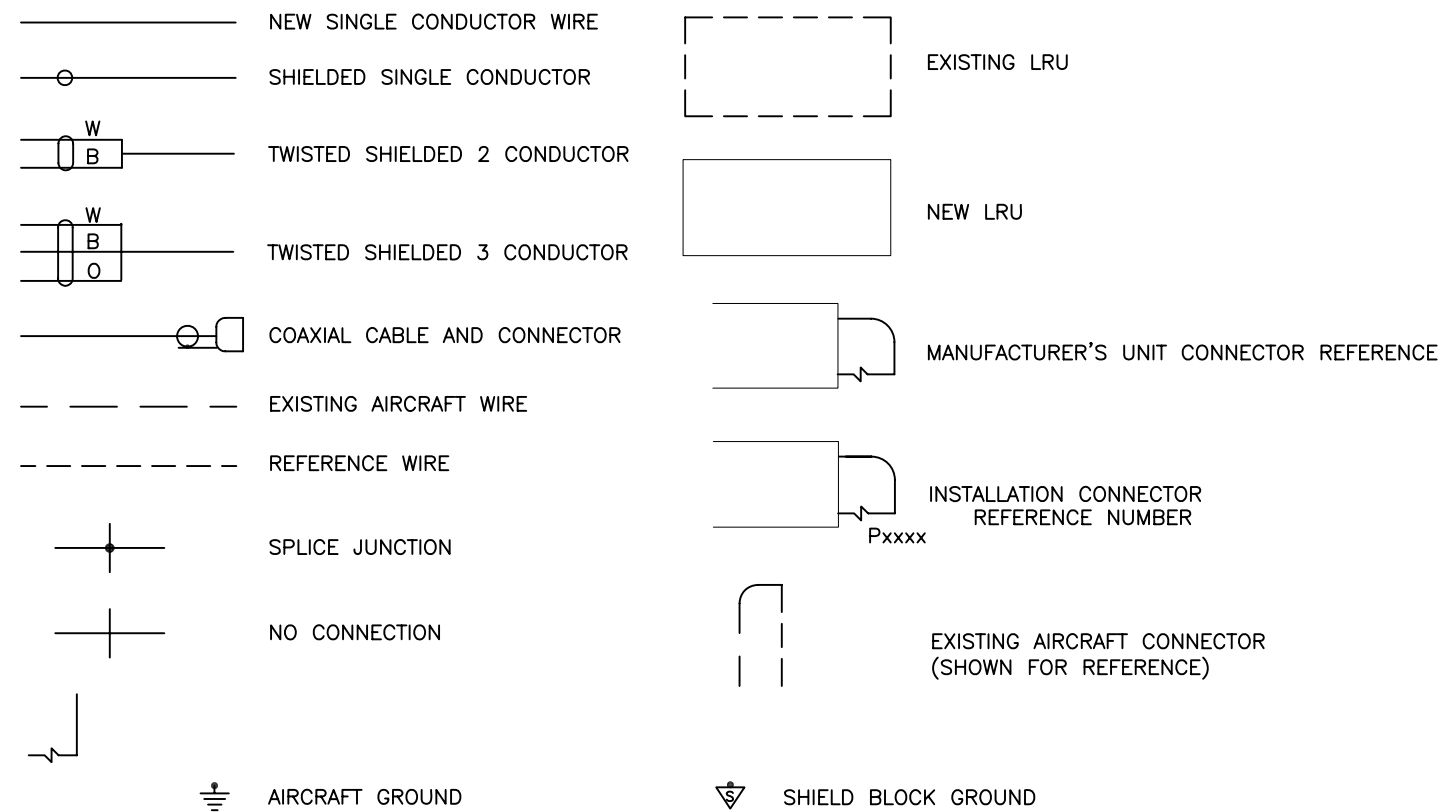
REV.
1

SCALE
N/A

SHT. 2 OF 10

NOTES:

ALL WIRE IS 24AWG OR LARGER MIL-W-22759/18 (OR EQUIVALENT), UNLESS OTHERWISE NOTED.
ALL CABLE IS 24 AWG OR LARGER MIL-C-27500 CABLE UTILIZING M22759/18 WIRE (TG) AND
ETFE JACKET (14), OR EQUIVALENT, SHIELD COVERAGE 85% OR HIGHER (A OR -) AND SHIELD
MATERIAL TIN PLATED COPPER ROUND (T), UNLESS OTHERWISE NOTED.



- 2. AT GDU 620, GRS 77H AND GDC 74H, CONNECT SHIELD GROUNDS TO THE CONNECTOR BACKSHELL – THE SHIELD LEADS MUST BE LESS THAN 3.0". CONNECT OTHER SHIELD GROUNDS TO AIRCRAFT GROUND WITH AS SHORT A CONDUCTOR AS PRACTICAL, IN ACCORDANCE WITH THAT LRU INSTALLATION INSTRUCTIONS.
- 3. ASSEMBLE CONNECTORS AND TERMINATE SHIELDS AS SHOWN ON SHEET 10.
- 4. RESERVED.
- 5. ALL WIRE LENGTHS TO BE DETERMINED AT TIME OF INSTALLATION.
- 6. RESERVED.
- 7. OPTIONAL CONNECTION.
- 8.–16. RESERVED.

17 IF GARMIN GDL 69/69A IS INSTALLED, THE GTS 8XX ETHERNET PORT MAY BE CONNECTED TO THE GDL 69/69A IN LIEU OF THE ETHERNET CONNECTION BETWEEN THE GDU 620 AND GTS 8XX. REFER TO LRU INSTALLATION MANUAL.

18 LABEL WIRES FOR INSTALLATION.

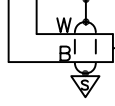
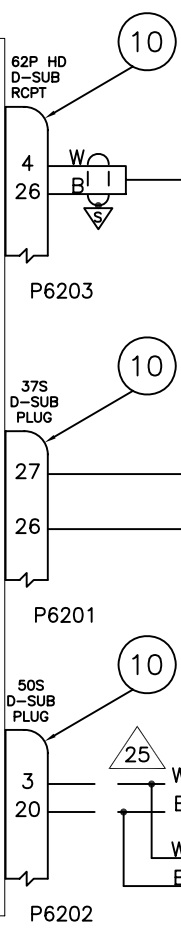
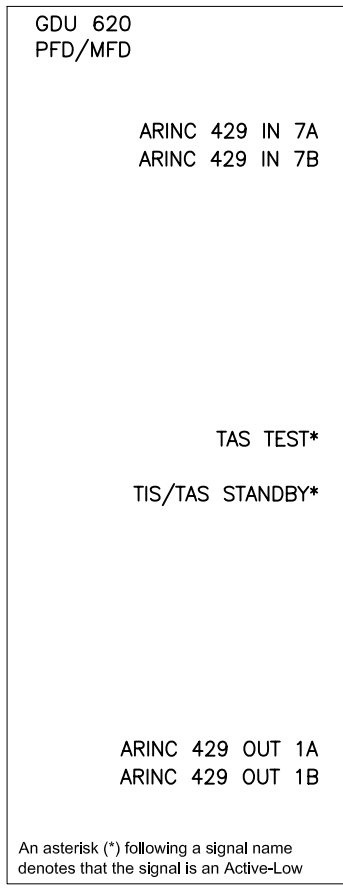
19 ONLY ONE TRAFFIC SOURCE MAY BE CONNECTED TO THE GDU 620 AT A TIME. FABRICATE THE APPROPRIATE TRAFFIC HARNESS FOR 005-W0222-08.

20 REFER TO G500H ROTORCRAFT STC INSTALLATION MANUAL P/N 190-01150-06 TRAFFIC INTERCONNECTS FOR MORE DETAILS.

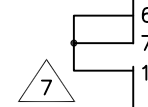
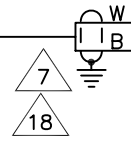
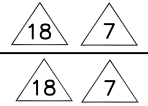
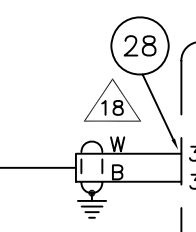
- 21 WHEN MOUNTING THE SLIDE LOCK, USE ONLY THE SPECIFIED SCREWS (211-6024-10). DO NOT ATTEMPT TO USE THE SELF-TAPPING SCREWS SUPPLIED IN THE SLIDE LOCK KIT.
- 22 REFER TO G500H ROTORCRAFT STC INSTALLATION MANUAL P/N 190-01150-06 CABLE AND WIRING SECTION FOR ADDITIONAL ASSEMBLY INSTRUCTIONS.
- 23 SHIELD GROUNDS SHOULD BE TERMINATED WITH CONTACT (ITEM #34) AND INSTALLED IN EXISTING CARD EDGE CONNECTOR DURING HARNESS INSTALLATION AS SHOWN.
- 24 REFER TO MANUFACTURER INSTALLATION MANUAL FOR APPROPRIATE CONNECTOR/PIN PARTS.
- 25 SPLICE WIRES IN ACCORDANCE WITH FIGURE 6.

NOTES

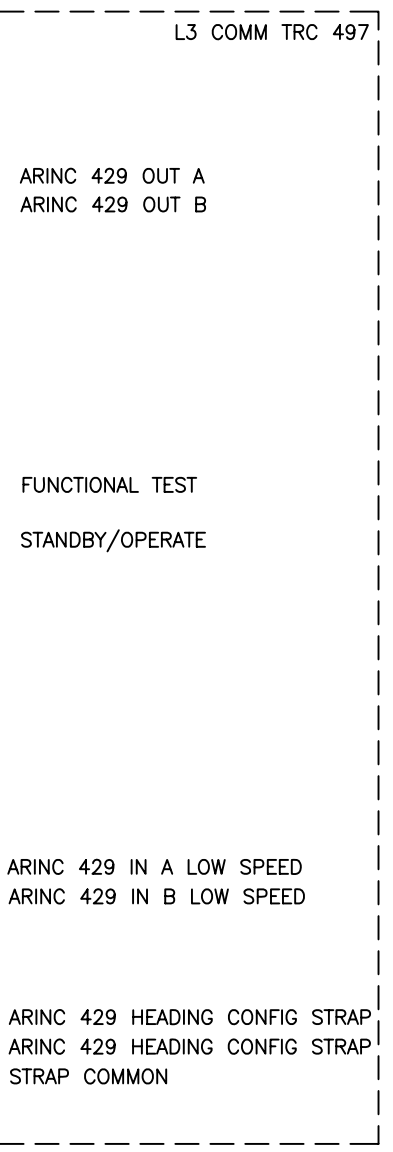
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SIZE B		DWG. NO. 005-W0222-08	REV. 1
SCALE N/A		SHT. 3 OF 10	



TO GPS NAVIGATOR(S)

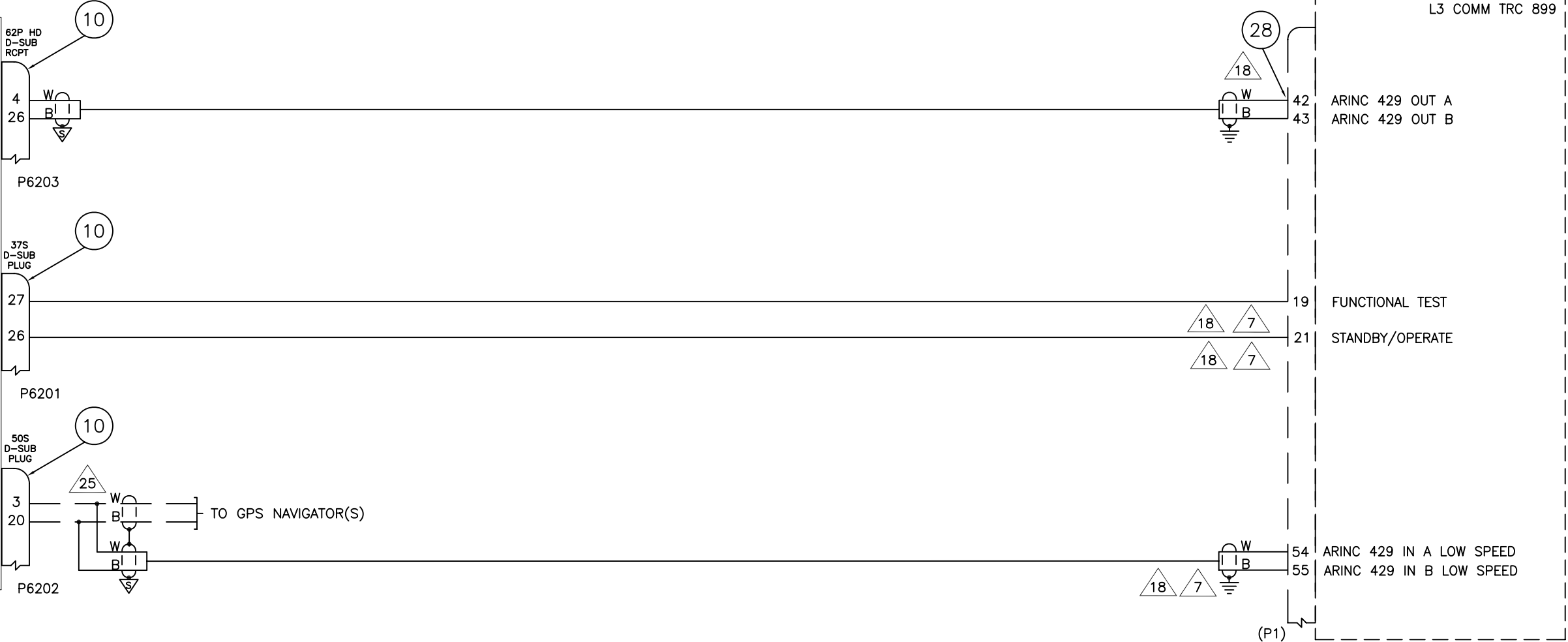
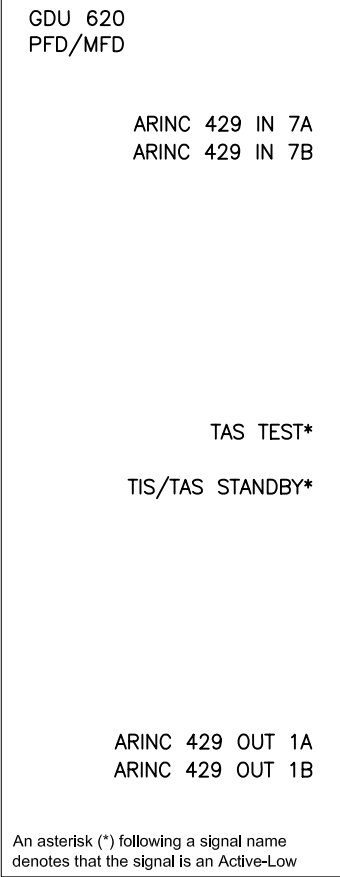


(P1)



L3 COMM SKY497

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SCALE N/A		SHT. 4	OF 10



L3 COMM SKY899

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SIZE B	DWG. NO. 005-W0222-08	REV. 1
SCALE N/A	SHT. 5 OF 10	

GDU 620
PFD/MFD

ARINC 429 IN 7A
ARINC 429 IN 7B

62P HD
D-SUB
RCPT

4
26

P6203

37S
D-SUB
PLUG

26

P6201

50S
D-SUB
PLUG

3
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P6202

ARINC 429 OUT 1A
ARINC 429 OUT 1B

An asterisk (*) following a signal name
denotes that the signal is an Active-Low

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GDU 620
PFD/MFD

ARINC 429 IN 7A
ARINC 429 IN 7B

62P HD
D-SUB
RCPT

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P6203

ARINC 429 OUT 1A
ARINC 429 OUT 1B

50S
D-SUB
PLUG

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P6202

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TO GPS NAVIGATOR(S)

AVIDYNE TAS 6XX/9900BX

ARINC 429 OUT A
ARINC 429 OUT B

ARINC 429 IN 1/2 A LOW SPEED
ARINC 429 IN 1/2 B LOW SPEED

(P1)

19
20

TCAD/TAS

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SIZE

B

DWG. NO.

005-W0222-08

REV.

1

SCALE

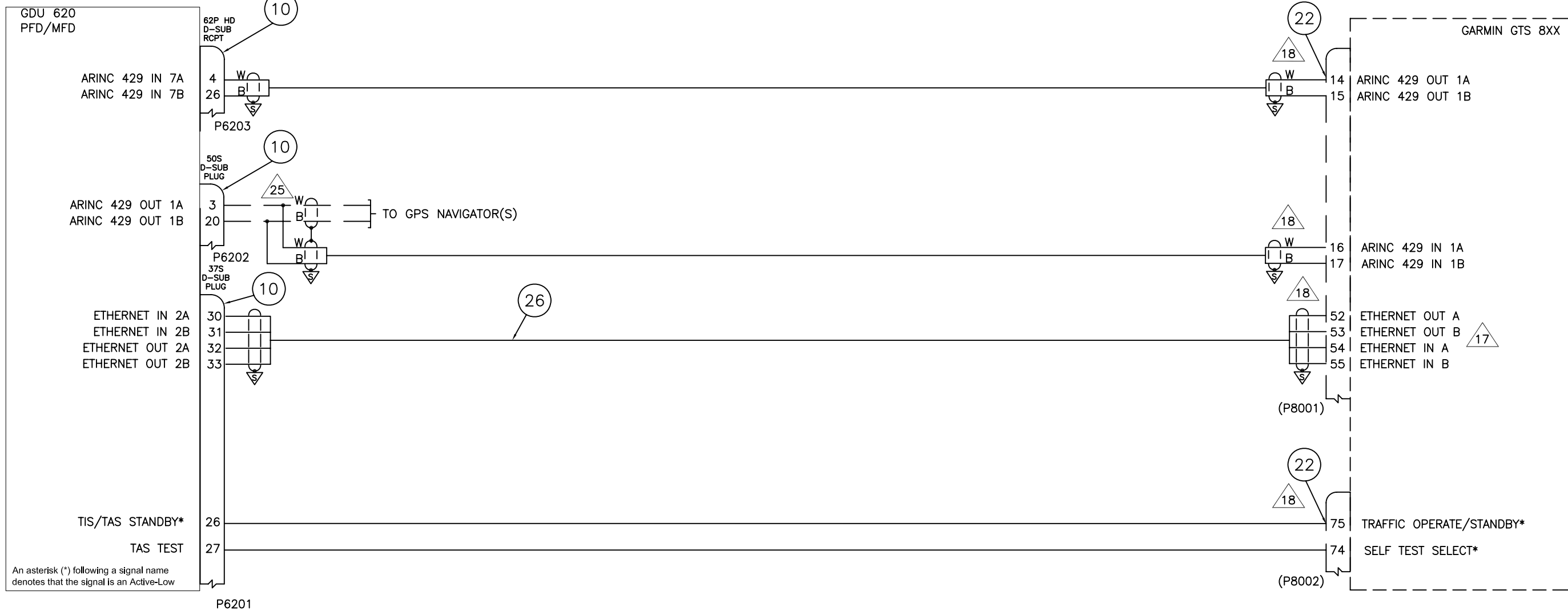
N/A

SHT.

8

OF

10



 GARMIN GTS 800/820/850

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SIZE B		DWG. NO. 005-W0222-08	REV. 1
SCALE N/A		SHT. 9	OF 10

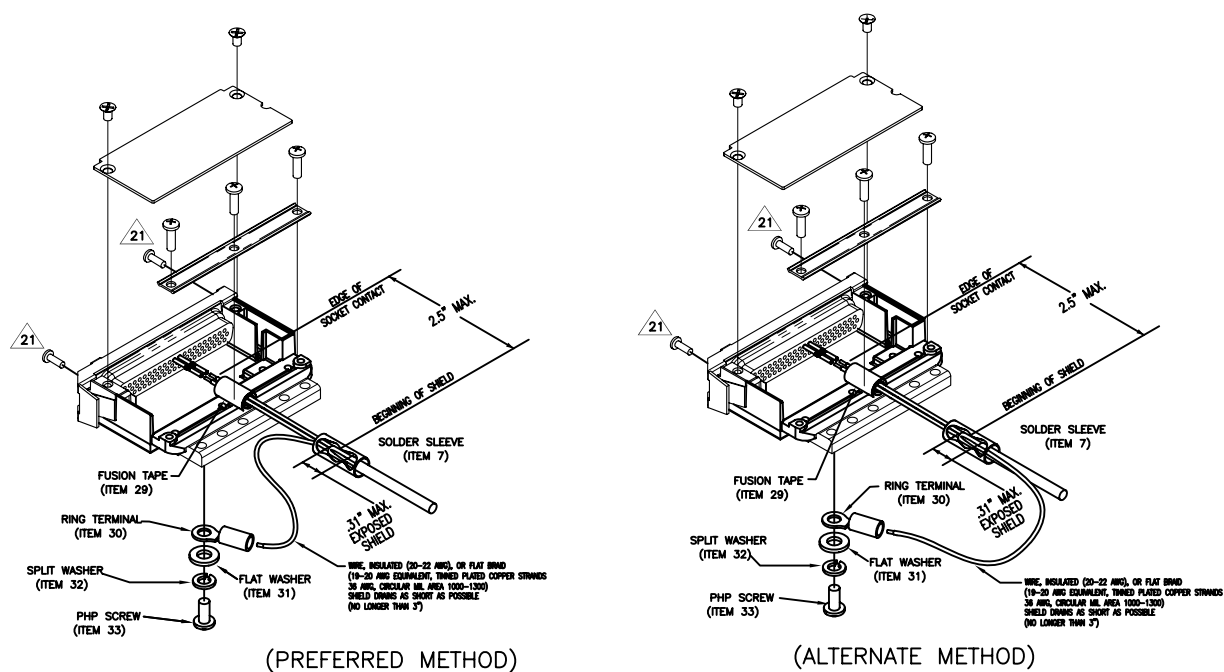


FIGURE 1 ²²

DETAIL SHOWING CONNECTOR ASSEMBLY AND
TERMINATIONS TO SHIELD BLOCK CONNECTORS

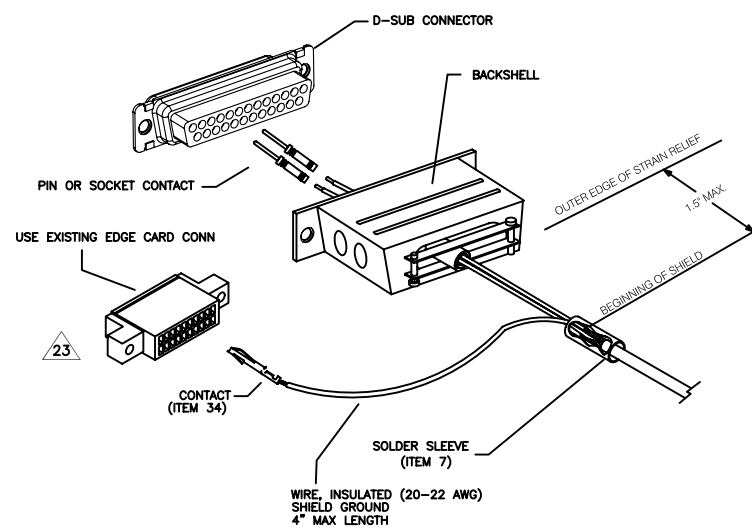


FIGURE 2

DETAIL SHOWING CONNECTOR ASSY & SHIELD GROUNDING
FOR GNS 400W/500W AND GTX 33(ES)/330(ES)

FIGURE 3

RESERVED

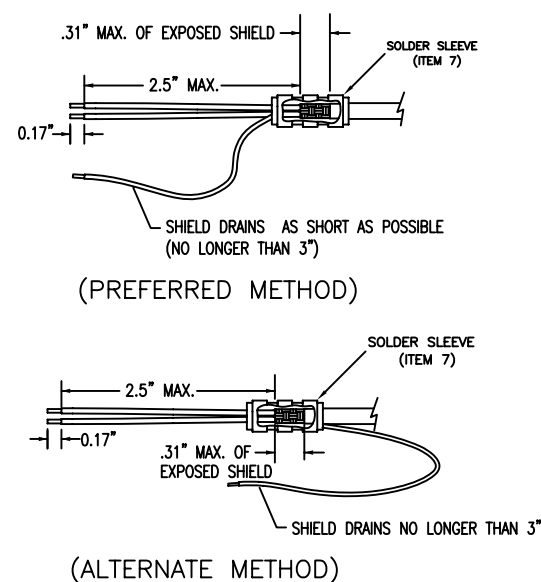


FIGURE 4

DETAIL OF LEAD DRESSING AND
SHIELD TERMINATION

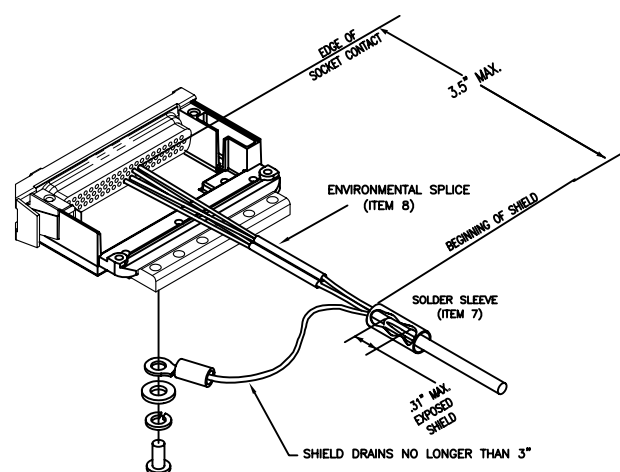


FIGURE 5

DETAIL SHOWING SPLICED LEADS

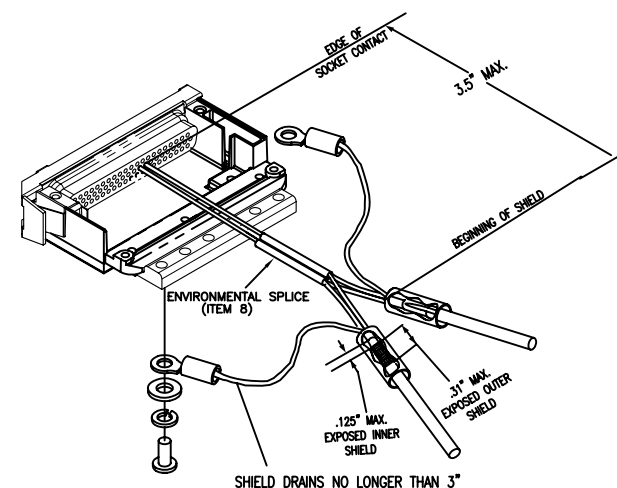


FIGURE 6

DETAIL SHOWING SPLICE OF 2X SHIELED PAIRS

CONNECTOR ASSEMBLY

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SCALE N/A		SHT. 10	OF 10