



AS85049/11 and MS3437B Environmental Backshells

Glenair Connector Designator A

MIL-DTL-5015 Series 3400,
MIL-DTL-26482 Series 2,
AS81703 Series 3,
MIL-DTL-83723 Series I &
III, 40M39569, DEF 5326-3,
EN 2997, EN 3646,
ESC 10, ESC 11, LN 29504,
NFC93422 Series HE302,
PAN 6432-1, PAN 6432-2,
PATT 602

M85049/11-21 N

Basic Part No.

Dash No. (Table II)

Finish and Material

B = Black Cadmium, Stainless Steel

N = Electroless Nickel, Aluminum

S = Passivated Stainless Steel

W = 1,000 Hour Cadmium Olive Drab Over
Electroless Nickel, Aluminum

MS3437B 21 N

Basic Part No.

Dash No. (Table II)

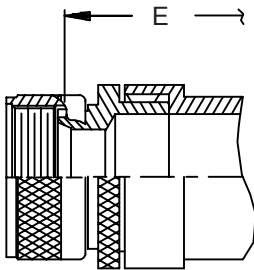
Superceded Part Number

Finish (Material is Aluminum Only)

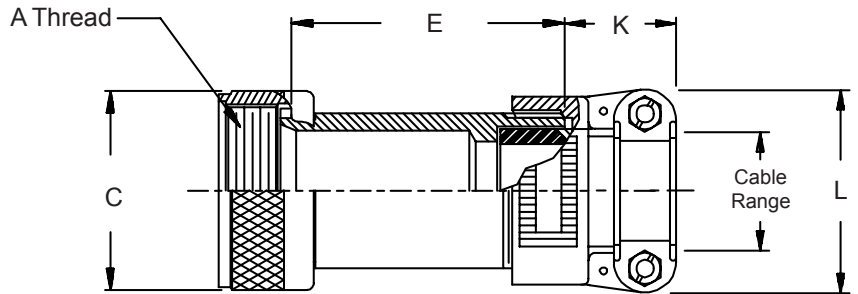
A = Cadmium Olive Drab over Nickel

C = Cadmium Olive Drab

N = Electroless Nickel



STYLE 2



STYLE 1

TABLE I

Shell Size	A Thread Class 2B	C Dia Max
3	.562 - 24 UNEF	.669 (17.0)
8	.500 - 20 UNF	.617 (15.7)
10	.625 - 24 UNEF	.734 (18.6)
12	.750 - 20 UNEF	.858 (21.8)
14	.875 - 20 UNEF	.984 (25.0)
16	1.000 - 20 UNEF	1.112 (28.2)
18	1.062 - 18 UNEF	1.218 (30.9)
20	1.188 - 18 UNEF	1.345 (34.2)
22	1.313 - 18 UNEF	1.468 (37.3)
24	1.438 - 18 UNEF	1.593 (40.5)
28	1.750 - 18 UNS	1.969 (50.0)
32	2.000 - 18 UNS	2.219 (56.4)
36	2.250 - 16 UN	2.469 (62.7)
40	2.500 - 16 UN	2.719 (69.1)
44	2.750 - 16 UN	2.969 (75.4)
48	3.000 - 16 UN	3.219 (81.8)
61	1.500 - 18 UNEF	1.653 (42.0)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. When maximum cable entry is exceeded, Style 2 will be supplied.

AS85049/11 and MS3437B Environmental Backshells



Environmental
Backshells

TABLE II

Dash No.	Shell Size	Style	E		K		L		Cable Range				M85049/42
			Max	(in)	Ref.	(in)	Max	(in)	Min	(in)	Max	(in)	Ref
01	3	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.250	(6.4)	4
02	3	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.250	(6.4)	4
03	3	2	2.875	(73.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
04	3	2	3.875	(98.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
05	8	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.250	(6.4)	4
06	8	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.250	(6.4)	4
07	8	2	2.875	(73.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
08	8	2	3.875	(98.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
09	10	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
10	10	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
11	10	2	2.875	(73.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
12	10	2	3.875	(98.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
13	12	1	2.125	(54.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
14	12	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
15	12	2	2.875	(73.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
16	12	2	3.875	(98.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
17	14	1	2.125	(54.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.575	(14.6)	10
18	14	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.575	(14.6)	10
19	14	2	2.875	(73.0)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
20	14	2	3.875	(98.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
21	16	1	2.125	(54.0)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.700	(17.8)	12
22	16	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.700	(17.8)	12
23	16	2	2.875	(73.0)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
24	16	2	3.875	(98.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
25	18	1	2.125	(54.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
26	18	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
27	18	1	2.125	(54.0)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
28	18	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
29	18	2	2.875	(73.0)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
30	18	2	3.875	(98.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
31	20	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
32	20	1	4.125	(104.8)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
33	20	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
34	20	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
35	20	2	3.875	(98.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
36	20	2	4.875	(123.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
37	20	2	3.875	(98.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
38	20	2	4.875	(123.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
39	22	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
40	22	1	4.125	(104.8)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
41	22	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
42	22	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
43	22	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
44	22	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
45	22	2	3.875	(98.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
46	22	2	4.875	(123.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
47	24	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
48	24	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
49	24	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.812	(20.6)	16
50	24	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.812	(20.6)	16
51	24	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
52	24	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16

Table continued on the next page.



**AS85049/11 and MS3437B
Environmental Backshells**

TABLE II (Continued)

Dash No.	Shell Size	Style	E		K		L		Cable Range		M85049/42 Ref		
			Max	(Inches)	Ref.	(Inches)	Max	(Inches)	Min	Max			
53	24	2	3.875	(98.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
54	24	2	4.875	(123.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
55	28	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
56	28	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
57	28	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
58	28	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
59	28	1	3.125	(79.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
60	28	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
61	28	1	3.125	(79.4)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
62	28	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
63	32	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
64	32	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
65	32	1	3.125	(79.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
66	32	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
67	32	1	3.125	(79.4)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
68	32	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
69	32	1	3.125	(79.4)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
70	32	1	4.125	(104.8)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
71	36	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
72	36	1	5.125	(130.2)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
73	36	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
74	36	1	5.125	(130.2)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
75	36	1	4.125	(104.8)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
76	36	1	5.125	(130.2)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
77	36	2	5.000	(127.0)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
78	36	2	6.000	(152.4)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
79	40	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
80	40	1	5.125	(130.2)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
81	40	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
82	40	1	5.125	(130.2)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
83	40	1	4.125	(104.8)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
84	40	1	5.125	(130.2)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
85	40	1	4.125	(104.8)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
86	40	1	5.125	(130.2)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
87	44	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
88	44	1	5.125	(130.2)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
89	44	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
90	44	1	5.125	(130.2)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
91	44	1	4.125	(104.8)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
92	44	1	5.125	(130.2)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
93	44	1	4.125	(104.8)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
94	44	1	5.125	(130.2)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
95	48	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
96	48	1	5.125	(130.2)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
97	48	1	4.125	(104.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
98	48	1	5.125	(130.2)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
99	48	1	4.125	(104.8)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
100	48	1	5.125	(130.2)	1.781	(45.2)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)	28
101	48	1	4.125	(104.8)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
102	48	1	5.125	(130.2)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)	32
103	61	1	3.125	(79.4)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
104	61	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12

Table continued on the next page.

AS85049/11 and MS3437B Environmental Backshells



Environmental
Backshells

TABLE II (Continued)

Dash No.	Shell Size	Style	E		K		L		Cable Range		M85049/42 Ref		
			Max	(mm)	Ref.	(mm)	Max	(mm)	Min	Max			
105	61	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
106	61	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
107	61	2	3.875	(98.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
108	61	2	4.875	(123.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)	20
109	61	2	3.875	(98.4)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
110	61	2	4.875	(123.8)	1.500	(38.1)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)	24
111	12	1	2.125	(54.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.500	(12.7)	10
112	16	1	2.125	(54.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
113	16	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
114	12	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
115	12	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
116	14	1	2.125	(54.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
117	14	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
118	16	1	2.125	(54.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
119	16	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
120	18	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
121	18	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
122	18	1	2.125	(54.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
123	18	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
124	20	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
125	20	1	4.125	(104.8)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
126	22	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
127	22	1	4.125	(104.8)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
128	22	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
129	22	1	4.125	(104.8)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.437	(11.1)	6
130	24	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
131	24	1	4.125	(104.8)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.625	(15.9)	10
132	36	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
133	36	1	5.125	(130.2)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
134	40	1	4.125	(104.8)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
135	40	1	5.125	(130.2)	1.059	(26.9)	1.551	(39.4)	.500	(12.7)	.750	(19.1)	12
136	10	1	2.125	(54.0)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.375	(9.5)	6
137	10	1	3.125	(79.4)	1.027	(26.1)	1.145	(29.1)	.250	(6.4)	.375	(9.5)	6
138	12	1	2.125	(54.0)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.500	(12.7)	10
139	12	1	3.125	(79.4)	1.027	(26.1)	1.332	(33.8)	.350	(8.9)	.500	(12.7)	10
140	20	1	3.125	(79.4)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.904	(23.0)	16
141	20	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.904	(23.0)	16
142	22	1	3.125	(79.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.029	(26.1)	20
143	22	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.029	(26.1)	20
144	24	1	3.125	(79.4)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.144	(29.1)	20
145	24	1	4.125	(104.8)	1.375	(34.9)	2.113	(53.7)	.875	(22.2)	1.144	(29.1)	20
146	36	1	4.125	(104.8)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.840	(46.7)	32
147	36	1	5.125	(130.2)	1.830	(46.5)	3.020	(76.7)	1.437	(36.5)	1.840	(46.7)	32
148	36	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
149	36	1	5.125	(130.2)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
150	14	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
151	14	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
152	16	1	2.125	(54.0)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
153	16	1	3.125	(79.4)	1.027	(26.1)	.957	(24.3)	.125	(3.2)	.312	(7.9)	4
154	44	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
155	44	1	5.125	(130.2)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
156	40	1	4.125	(104.8)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16
157	40	1	5.125	(130.2)	1.156	(29.4)	1.770	(45.0)	.625	(15.9)	.937	(23.8)	16