

MIL-R-6855/5
16 February 1987

MILITARY SPECIFICATION SHEET

RUBBER, SYNTHETIC, CHANNEL, EXTRUDED

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirement for acquiring the channels described herein shall consist of this specification and the latest issue of MIL-R-6855.

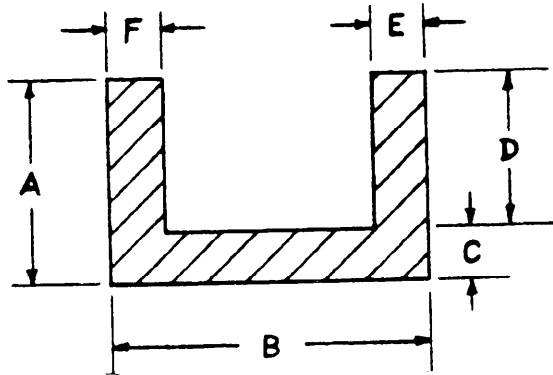


FIGURE 1a. Style A

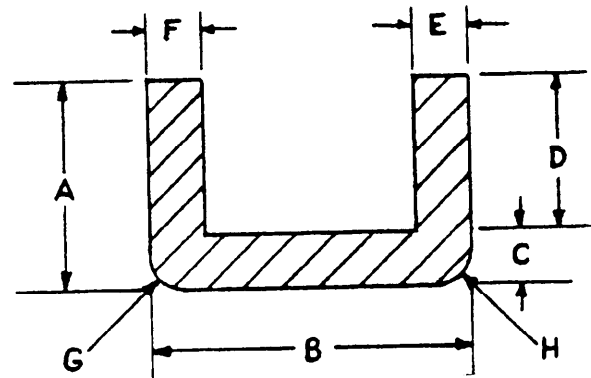


FIGURE 1b. Style B

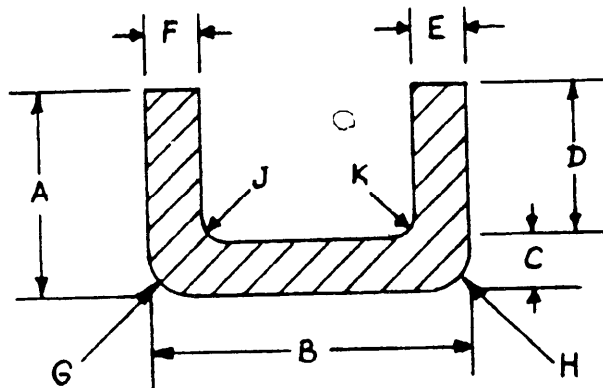


FIGURE 1c. Style C

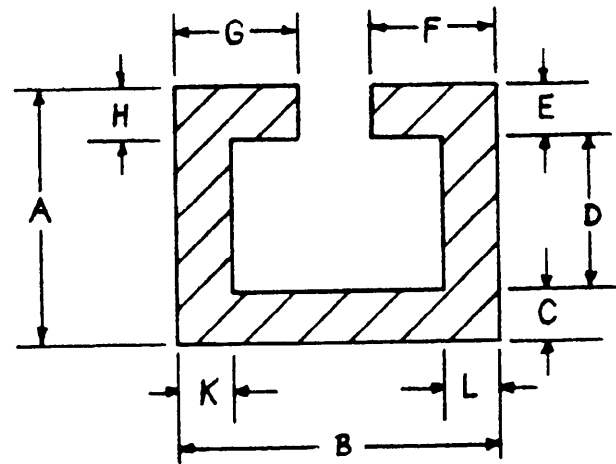


FIGURE 1d. Style D

FIGURE 1. Channel Styles A, B, C & D

FSC 4720, 5330, 9320

AMSC: N/A

DISTRIBUTION STATEMENT A.

Approved for public release; distribution is unlimited

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TABLE 1A

CHANNEL DIMENSIONS - STYLE A							NOTES
Config. Number	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	F (Inches)	
A02	0.250	0.188	0.125	0.125	0.062	0.062	See Note 4
A04	0.250	0.250	0.125	0.125	0.062	0.062	
A06	0.250	0.500	0.125	0.125	0.125	0.125	See Note 4
A08	0.250	0.875	0.125	0.125	0.125	0.125	
A10	0.312	0.156	0.062	0.250	0.062	0.062	See Note 4
A12	0.312	0.240	0.062	0.250	0.062	0.062	
A14	0.312	0.300	0.062	0.250	0.062	0.062	See Note 4
A16	0.312	0.500	0.187	0.125	0.125	0.125	
A18	0.312	0.875	0.125	0.187	0.125	0.125	See Note 4
A20	0.312	1.000	0.125	0.187	0.125	0.125	
A22	0.375	0.875	0.125	0.250	0.125	0.125	See Note 4
A24	0.375	1.000	0.125	0.250	0.125	0.125	
A26	0.438	0.375	0.063	0.375	0.063	0.063	See Note 4
A28	0.438	0.500	0.125	0.313	0.125	0.125	
A32	0.500	0.156	0.063	0.437	0.063	0.063	See Note 4
A34	0.500	0.500	0.125	0.375	0.125	0.125	
A36	0.500	1.000	0.125	0.375	0.125	0.125	See Note 4
A38	0.500	1.000	0.250	0.250	0.250	0.250	
A40	0.875	0.875	0.125	0.750	0.125	0.125	See Note 4
A42	1.000	1.000	0.250	0.750	0.250	0.250	

TABLE 1B

CHANNEL DIMENSIONS - STYLE B										NOTES
Config. Number	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	F (Inches)	G (Inches)	H (Inches)		
B02	0.188	0.188	0.063	0.125	0.063	0.063	0.031	0.031		See Note 4
B04	0.250	0.250	0.125	0.125	0.062	0.062	0.060	0.060		
B08	0.312	0.500	0.187	0.125	0.125	0.125	0.120	0.120		See Note 4
B10	0.400	0.160	0.125	0.275	0.060	0.060	0.080	0.080		
B12	0.500	0.500	0.125	0.375	0.125	0.125	0.188	0.188		See Note 4
B14	1.000	1.000	0.250	0.750	0.250	0.250	0.188	0.188		

TABLE 1C

CHANNEL DIMENSIONS - STYLE C												NOTES
Config. Number	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	F (Inches)	G (Inches)	H (Inches)	J (Inches)	K (Inches)		
C02	0.188	0.188	0.063	0.125	0.063	0.063	0.031	0.031	0.016	0.016		See Note 4
C04	0.250	0.250	0.064	0.186	0.102	0.102	0.064	0.064	0.023	0.023		
C06	0.250	0.250	0.125	0.125	0.062	0.062	0.060	0.060	0.031	0.031		See Note 4
C10	0.312	0.500	0.187	0.125	0.125	0.125	0.120	0.120	0.060	0.060		
C12	0.500	0.187	0.125	0.375	0.047	0.047	0.094	0.094	0.047	0.047		See Note 4
C14	0.500	0.500	0.125	0.375	0.125	0.125	0.188	0.188	0.080	0.080		
C16	0.563	0.156	0.125	0.438	0.063	0.063	0.031	0.031	0.031	0.031		See Note 4
C18	0.938	0.250	0.063	0.875	0.063	0.063	0.125	0.125	0.063	0.063		
C20	1.000	1.000	0.250	0.750	0.250	0.250	0.188	0.188	0.120	0.120		See Note 4
C22	1.250	0.875	0.250	1.000	0.250	0.250	0.188	0.188	0.062	0.062		

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TABLE ID

CHANNEL DIMENSIONS - STYLE D											Notes
Config. Number	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	F (Inches)	G (Inches)	H (Inches)	K (Inches)	L (Inches)	
D02	0.165	0.600	0.062	0.041	0.062	0.188	0.188	0.062	0.050	0.050	See Note 4 See Note 4
D04	0.249	0.624	0.125	0.062	0.062	0.219	0.219	0.062	0.062	0.062	
D06	0.281	1.000	0.125	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D08	0.281	1.250	0.125	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D10	0.437	1.375	0.250	0.062	0.125	0.312	0.312	0.125	0.125	0.125	
D12	0.344	1.500	0.188	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D14	0.344	1.750	0.188	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D16	0.281	2.000	0.125	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D18	0.344	2.000	0.188	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D20	0.406	2.125	0.250	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D22	0.344	2.250	0.188	0.062	0.094	0.312	0.312	0.094	0.125	0.125	
D24	0.438	2.625	0.250	0.094	0.094	0.312	0.312	0.094	0.125	0.125	
D26	0.469	3.062	0.250	0.094	0.125	0.375	0.375	0.125	0.156	0.156	

TABLE II

CHANNEL TYPE, CLASS AND GRADE	
Classification Number	Classification of Requirements
01	CLASS 1 GRADE 30
02	CLASS 1 GRADE 40
03	CLASS 1 GRADE 50
04	CLASS 1 GRADE 60
05	CLASS 1 GRADE 70
06	CLASS 1 GRADE 80
07	TYPE A CLASS 2 GRADE 30
08	TYPE A CLASS 2 GRADE 40
09	TYPE A CLASS 2 GRADE 50
10	TYPE A CLASS 2 GRADE 60
11	TYPE A CLASS 2 GRADE 70
12	TYPE A CLASS 2 GRADE 80
13	TYPE B CLASS 2 GRADE 30
14	TYPE B CLASS 2 GRADE 40
15	TYPE B CLASS 2 GRADE 50
16	TYPE B CLASS 2 GRADE 60
17	TYPE B CLASS 2 GRADE 70
18	TYPE B CLASS 2 GRADE 80
19	CLASS 3 GRADE 30
20	CLASS 3 GRADE 40
21	CLASS 3 GRADE 50
22	CLASS 3 GRADE 60
23	CLASS 3 GRADE 70
24	CLASS 3 GRADE 80
25	TYPE A CLASS 4 GRADE 30
26	TYPE A CLASS 4 GRADE 40
27	TYPE A CLASS 4 GRADE 50
28	TYPE A CLASS 4 GRADE 60
29	TYPE A CLASS 4 GRADE 70
30	TYPE A CLASS 4 GRADE 80
31	TYPE B CLASS 4 GRADE 30
32	TYPE B CLASS 4 GRADE 40
33	TYPE B CLASS 4 GRADE 50
34	TYPE B CLASS 4 GRADE 60
35	TYPE B CLASS 4 GRADE 70
36	TYPE B CLASS 4 GRADE 80
37	CLASS 5 GRADE 30
38	CLASS 5 GRADE 40
39	CLASS 5 GRADE 50
40	CLASS 5 GRADE 60
41	CLASS 5 GRADE 70
42	CLASS 5 GRADE 80

TABLE III

CHANNEL LENGTH - L	
Length Letter	L (Inches)
D	48.000
H	168.000

TABLE IV

DIMENSIONAL TOLERANCES FOR CHANNEL	
Dimensional Range (Inches)	Tolerance (Inches)
over .015 to .040 inclusive	+ or - .005
over .041 to .062 inclusive	+ or - .012
over .062 to .125 inclusive	+ or - .016
over .125 to .187 inclusive	+ or - .020
over .187 to .375 inclusive	+ or - .031
over .375 to .562 inclusive	+ or - .047
over .562 to .750 inclusive	+ or - .063
over .750 to 1.000	+ or - .093
1.000 and over	+ or - 10%

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REQUIREMENTS:

Part Numbers:

Part numbers for channel described herein shall consist of the prefix M, specification number, specification sheet number, and a six-digit dash number assigned using Tables IA, IB, IC, ID, II, III and IV herein, as shown in the following example:

EXAMPLE:

M6855/5-XXXXXX

One-Digit Length Letter (Table III).
 Two-Digit Classification Number (Table II).
 Three-Digit Configuration Designation (Table IA, IB, IC, ID, or IE, as applicable).
 M Prefix (Item Defined by Inch-Pound Units),
 Specification Number, and Specification Sheet Number.

Dimensional Tolerances:

Tolerances for channel dimensions shall be in accordance with Table IV herein. All corner and fillet radii shall be 0.015 inch except as otherwise specified. Tolerance for channel length shall be -0%, +3%.

Surface Finish:

All synthetic rubber channel surfaces shall be smooth and free from pin holes, flash, or any other imperfections which may impair serviceability.

Physical Properties:

Physical properties of Classes 1, 2, and 3 synthetic rubber channel shall conform to MIL-R-6855, Table IV. Classes 4 and 5 synthetic rubber channel shall conform to MIL-R-6855, Table V.

Quality Assurance:

Inspection and test of synthetic rubber channel shall be in accordance with MIL-R-6855, Section 4, QUALITY ASSURANCE PROVISIONS.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Use of this specification sheet for US Army Communications-Electronics Command is restricted to Class 4 and Class 5 synthetic rubber.
4. These channel configurations shall apply only for synthetic rubber grades 50, 60, 70, and 80 of MIL-R-6855.

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INCH	MM	INCH	MM
.015	.38	.281	7.14
.016	.41	.300	7.62
.023	.58	.312	7.92
.031	.79	.315	7.95
.041	1.04	.343	8.71
.047	1.19	.344	8.74
.050	1.27	.375	9.53
.060	1.52	.400	10.16
.062	1.57	.406	10.31
.063	1.60	.437	11.10
.064	1.63	.438	11.13
.078	1.98	.469	11.91
.080	2.03	.500	12.70
.094	2.39	.531	13.49
.102	2.59	.563	14.30
.109	2.77	.600	15.24
.120	3.05	.624	15.85
.125	3.18	.650	16.51
.140	3.56	.675	17.18
.156	3.96	.738	18.75
.160	4.06	1.000	25.40
.165	4.19	1.250	31.75
.186	4.72	1.375	34.93
.187	4.75	1.500	38.10
.188	4.78	1.750	44.45
.219	5.56	2.000	50.80
.234	5.94	2.125	53.98
.240	6.10	2.250	57.15
.249	6.32	2.625	66.68
.250	6.35	3.062	77.77
.275	6.99	48.000	1219.20
		168.000	4267.20

Custodians:

Army - MR
 Navy - AS
 Air Force - 20

Review Activities:

Army - AR, AT, AV, CR, ER, MI
 Air Force - 82, 99
 Navy - OS, SH
 DLA - CS, GS, IS

User Activities:

Army - CE
 Navy - YD

Preparing Activity:

Navy - AS

Agent:

DLA-GS
 (Project 9320-0473-05)

