



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®

IPC-4412A

Amendment 1

Specification for Finished
Fabric Woven from “E”
Glass for Printed Boards

IPC-4412A

March 2008

A standard developed by IPC

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Specification for Finished Fabric Woven from "E" Glass for Printed Boards Amendment 1

Replace the existing Table 3-3 with the following:

Table 3-3 Bare Glass Nominal Measurements

Yarn		Nominal Length per Unit Weight	
SI Nomenclature	US System Nomenclature	SI m/kg	US System yards/pound
4 1.65 1x0	BC 3000 1/0	604,773	300,000
4 2.20 1x0	BC 2250 1/0	453,571	225,000
4 3.31 1x0	BC 1500 1/0	302,385	150,000
4.5 2.76 1x0	C 1800 1/0	362,864	180,000
4.5 4.13 1x0	C 1200 1/0	241,905	120,000
5 2.75 1x0 ¹	D 1800 1/0 ¹	362,864	180,000
5 5.5 1x0	D 900 1/0	181,432	90,000
6 8.27 1x0	DE 600 1/0	120,955	60,000
5 11 1x0	D 450 1/0	90,716	45,000
6 16.5 1x0	DE 300 1/0	60,477	30,000
7 22 1x0	E 225 1/0	45,358	22,500
9 33 1x0	G 150 1/0 ²	30,239	15,000
6 33 1x0	DE 150 1/0	30,239	15,000
7 41 1x0	E 125 1/0	25,199	12,500
7 45 1x0	E 110 1/0 ³	22,175	11,000
6 49 1x0	DE 100 1/0	20,159	10,000
9 68 1x0	G 75 1/0 ⁴	14,716	7,300
9 74 1x0	G 67 1/0	13,507	6,700
9 99 1x0	G 50 1/0 ⁵	10,080	5,000
9 134 1x0	G 37 1/0 ⁶	7,459	3,700

¹ 1/0 or 1x0 = Single yarn which has not been combined.

² In Europe, yarn used is G 146 1/0 (9 34 1x0).

³ Some suppliers may use E 113 1/0 (7 44 1x0).

⁴ The actual yardage is 14,716 m/kg [7,300 yds/lb.], but the product is designated G 75 1/0.

⁵ In Europe, yarn used is G 49 1/0 (9 102 1x0).

⁶ In Europe, yarn used is G 36 1/0 (9 136 1x0). This is the input yarn for glass style 7642.

Appendix II

Finished Fabric Glass Styles

SI Units

Replace the existing Table II-1 with the following:

Table II-1 Finished Fabric Glass Styles in SI Units

Style	Fabric Count Warp x Fill (Per cm)	Yarn (SI)	Thickness (mm) (Reference Only)	Nominal Weight (g/m ²)	Weight Tolerance (g/m ²)	Availability ¹
101	29.5 x 29.5	5 2.75 1x0 5 2.75 1x0	0.024	16.3	15.2 - 17.3	1
104	23.6 x 20.5	5 5.5 1x0 5 2.75 1x0	0.028	18.6	18.0 - 19.3	1
106	22.0 x 22.0	5 5.5 1x0 5 5.5 1x0	0.033	24.4	23.4 - 25.4	1
1078	21.3 x 21.3	5 11 1x0 5 11 1x0	0.043	47.8	46.8 - 49.2	1
1080	23.6 x 18.5	5 11 1x0 5 11 1x0	0.053	46.8	45.1 - 48.5	1
1081	27.6 x 23.6	5 11 1x0 5 11 1x0	0.060	58.3	56.4 - 60.6	1
1280	23.6 x 23.6	5 11 1x0 5 11 1x0	0.056	52.9	51.5 - 54.2	1
1500	19.3 x 16.5	7 45* 1x0 7 45* 1x0	0.149	164.1	157.7 - 170.5	1
1501	18.1 x 17.7	7 45* 1x0 7 45* 1x0	0.140	165.0	158.0 - 171.0	1
1504	23.6 x 19.7	6 33 1x0 6 33 1x0	0.125	148.0	142.8 - 153.2	1
1651	20.0 x 10.8	9 33 1x0 9 74 1x0	0.135	146.2	142.1 - 150.3	1
1652	20.5 x 20.5	9 34* 1x0 9 34* 1x0	0.114	138.3	133.6 - 143.1	1
1674	15.7 x 12.6	9 34* 1x0 9 34* 1x0	0.097	96.6	92.9 - 100.4	1
1675	15.7 x 12.6	6 33 1x0 6 33 1x0	0.101	96.3	92.6 - 100.0	1
1678	15.7 x 15.7	9 34* 1x0 9 34* 1x0	0.091	103.5	102.7 - 111.6	1
2113	23.6 x 22.0	7 22 1x0 5 11 1x0	0.079	78.0	75.6 - 80.4	1
2114	22.0 x 18.9	7 22 1x0 7 22 1x0	0.084	90.9	88.5 - 93.2	1
2116	23.6 x 22.8	7 22 1x0 7 22 1x0	0.094	103.8	100.7 - 106.8	1
2117	26.0 x 21.7	7 22 1x0 7 22 1x0	0.095	108	104.8 - 111.2	1
2125	15.7 x 15.4	7 22 1x0 9 34* 1x0	0.091	87.5	82.7 - 90.9	1
2157	23.6 x 13.8	7 22 1x0 9 68 1x0	0.130	148.0	144.0 - 152.0	1
2165	23.6 x 20.5	7 22 1x0 9 34* 1x0	0.101	122.4	116.3 - 126.1	1
2166	23.6 x 15.0	7 22 1x0 9 68 1x0	0.140	155.0	150.0 - 160.0	1
2313	23.6 x 25.2	7 22 1x0 5 11 1x0	0.084	81.4	79.0 - 83.7	1
3070	27.6 x 27.6	6 16.5 1x0 6 16.5 1x0	0.078	93.6	90.9 - 96.3	1
3080	20.0 x 12.0	6 16.5 1x0 6 16.5 1x0	0.059	53.4	51.5 - 55.3	1
3313	23.6 x 24.4	6 16.5 1x0 6 16.5 1x0	0.084	81.4	79.0 - 83.7	1
7628	17.3 x 12.2	9 68 1x0 9 68 1x0	0.173	203.4	198.0 - 208.9	1
7629	17.3 x 13.4	9 68 1x0 9 68 1x0	0.180	210.0	204.5 - 215.3	1
7635	17.3 x 11.4	9 68 1x0 9 102* 1x0	0.201	232.3	226.5 - 238.0	1
7642	17.3 x 7.9	9 68 1x0 9 136* 1x0 (texturized)	0.254	227.8	221.1 - 234.7	1
108	23.6 x 18.5	5 5.5 1x2 5 5.5 1x2	0.061	47.5	46.1 - 48.8	2
1000	33.5 x 33.5	4 1.65 1x0 4 1.65 1x0	0.012	11.1	10.2 - 12.0	2
1017	37.4 x 37.4	4 1.65 1x0 4 1.65 1x0	0.014	12.3	11.4 - 13.2	2
1027	29.5 x 29.5	4 3.31 1x0 4 3.31 1x0	0.019	19.9	19.0 - 20.7	2
1035	26.0 x 26.8	5 5.5 1x0 5 5.5 1x0	0.028	30.0	27.2 - 32.6	2
1037	27.6 x 28.7	4.5 4.1 1x0 4.5 4.1 1x0	0.027	23.0	22.2 - 24.1	2
1065	22.0 x 22.0	5 11 1x0 5 5.5 1x0	0.053	37.3	35.6 - 39.0	2
1067	27.6 x 27.6	5 5.5 1x0 5 5.5 1x0	0.035	30.7	29.5 - 31.9	2
1634	20.0 x 12.0	9 33 1x0 9 33 1x0	0.095	105.4	101.6 - 109.2	2

Style	Fabric Count Warp x Fill (Per cm)	Yarn (SI)	Thickness (mm) (Reference Only)	Nominal Weight (g/m ²)	Weight Tolerance (g/m ²)	Availability ¹
1647	20.0 x 12.0	9 33 1x0 7 44 1x0	0.105	120.5	116.1 - 124.9	2
1649	20.0 x 15.0	9 33 1x0 7 44 1x0	0.120	135.9	130.9 - 140.8	2
1657	20.0 x 11.6	9 33 1x0 9 74 1x0	0.150	154.2	149.9 - 158.5	2
1697	17.3 x 15.0	9 34* 1x0 9 34* 1x0	0.092	111.2	105.1 - 113.9	2
2112	15.7 x 15.4	7 22 1x0 7 22 1x0	0.081	69.0	67.0 - 71.0	2
3113	20.0 x 12.0	7 22 1x0 9 33 1x0	0.081	84.8	82.2 - 87.4	2
3323	23.6 x 18.1	6 16.5 1x0 7 22 1x0	0.086	81.3	78.0 - 84.0	2
6060	23.6 x 23.6	6 8.27 1x0 6 8.27 1x0	0.048	39.0	37.6 - 40.3	2
7196	17.3 x 13.0	9 74 1x0 9 74 1x0	0.200	230.0	223.0 - 237.0	2
7624	17.3 x 9.4	9 68 1x0 9 68 1x0	0.163	184.4	179.0 - 190.0	2
7640	17.3 x 13.4	9 68 1x0 9 102* 1x0	0.249	258.0	250.0 - 266.0	2
7652	12.6 x 12.6	9 102* 1x0 9 102* 1x0	0.220	257.7	249.2 - 266.2	2
7667	17.3 x 12.2	9 74 1x0 9 74 1x0	0.185	220.0	215.0 - 225.0	2
7669	17.3 x 12.2	9 68 1x0 9 74 1x0	0.178	209.0	203.0 - 215.0	2
7688	17.3 x 13.8	9 68 1x0 9 74 1x0	0.190	220.0	214.0 - 226.0	2
112	15.7 x 15.4	5 11 1x2 5 11 1x2	0.092	70.5	68.5 - 72.6	3
113	23.6 x 25.2	5 11 1x2 5 .5 1x2	0.086	81.0	78.7 - 83.4	3
116	23.6 x 22.8	5 11 1x2 5 11 1x2	0.102	105.0	101.7 - 107.8	3
119	21.3 x 19.7	5 11 1x2 5 11 1x2	0.091	91.8	89.2 - 94.6	3
1012	27.6 x 27.6	4 2.20 1x0 4 2.20 1x0	0.018	12.3	11.8 - 12.8	3
1015	37.8 x 37.8	4 2.20 1x0 4 2.20 1x0	0.015	16.9	16.5 - 17.3	3
1020	21.7 x 21.7	4.5 2.76 1x0 4.5 2.76 1x0	0.025	12.2	11.5 - 12.8	3
1044	17.3 x 17.3	6 51 1x0 6 51 1x0	0.142	171.0	166.0 - 176.0	3
1047	18.5 x 18.5	6 51 1x0 6 51 1x0	0.147	184.0	179.0 - 189.0	3
1070	23.6 x 13.8	5 11 1x0 5 5.5 1x0	0.046	34.2	32.8 - 35.6	3
1116	23.6 x 22.8	5 22 1x0 5 22 1x0	0.089	104.0	100.7 - 106.8	3
1165	23.6 x 20.5	5 11 1x2 9 34* 1x0	0.101	123.0	116.9 - 127.8	3
1180	23.6 x 19.7	5 11 1x0 5 11 1x0	0.058	49.0	47.5 - 50.5	3
1316	24.0 x 24.0	5 22 1x0 5 22 1x0	0.102	108.0	105.0 - 111.0	3
1502	20.5 x 19.7	7 42 1x0 7 42 1x0	0.150	162.0	156.3 - 167.7	3
1503	25.2 x 18.1	6 33 1x0 6 33 1x0	0.135	148.0	142.8 - 153.2	3
1676	22.0 x 18.9	6 33 1x0 6 33 1x0	0.122	138.0	132.0 - 143.0	3
2119	21.3 x 19.7	7 22 1x0 7 22 1x0	0.086	90.2	87.5 - 92.9	3
2316	24.0 x 24.0	7 22 1x0 7 22 1x0	0.096	106.0	103.0 - 109.0	3
2319	23.6 x 19.3	7 22 1x0 7 22 1x0	0.086	92.2	89.5 - 94.9	3
3132	23.6 x 23.6	5 11 1x0 7 22 1x0	0.071	79.0	76.0 - 82.0	3
7627	17.3 x 11.8	9 68 1x0 9 68 1x0	0.165	199.0	193.0 - 205.0	3
7637	17.3 x 8.7	9 68 1x0 9 136* 1x0	0.224	228.0	221.0 - 235.0	3
7650	17.3 x 9.1	9 68 1x0 9 102* 1x0	0.190	208.0	201.0 - 214.0	3
7660	11.8 x 11.8	9 68 1x0 9 68 1x0	0.150	160.4	156.0 - 164.0	3

Note: This table is sorted by 'Availability', and then by 'Style'.

*In the US, the following four yarn replacements are used: 9 33 in lieu of 9 34, 7 44 in lieu of 7 45, 9 99 in lieu of 9 102 and 9 134 in lieu of 9 136. The nominal weights may vary (see Table 3-3 and its associated footnotes).

¹Availability Status

1. generally available
2. limited availability
3. inactive styles

Appendix II Finished Fabric Glass Styles US System

Replace the existing Table II-2 with the following:

Table II-2 Finished Fabric Glass Styles for US System

Style	Fabric Count Warp x Fill [Per inch]	Yarn [US System]	Thickness (mils) (Reference Only)	Nominal Weight [OSY]	Weight Tolerance [OSY]	Availability ¹
101	75 x 75	D1800 1/0 X D1800 1/0	0.96	0.48	0.45 - 0.51	1
104	60 x 52	D900 1/0 X D1800 1/0	1.1	0.55	0.53 - 0.57	1
106	56 x 56	D900 1/0 X D900 1/0	1.3	0.72	0.69 - 0.75	1
1078	54 x 54	D450 1/0 X D450 1/0	1.7	1.41	1.38 - 1.45	1
1080	60 x 47	D450 1/0 X D450 1/0	2.1	1.38	1.33 - 1.43	1
1081	70 x 60	D450 1/0 X D450 1/0	2.4	1.72	1.66 - 1.78	1
1280	60 x 60	D450 1/0 X D450 1/0	2.2	1.55	1.49 - 1.61	1
1500	49 x 42	E110* 1/0 X E110* 1/0	5.9	4.84	4.65 - 5.03	1
1501	46 x 45	E110* 1/0 X E110* 1/0	5.5	4.86	4.67 - 5.05	1
1504	60 x 50	DE150 1/0 X DE150 1/0	4.9	4.36	4.21 - 4.51	1
1651	51 x 27	G150* 1/0 X G67 1/0	5.3	4.31	4.19 - 4.43	1
1652	52 x 52	G150* 1/0 X G150* 1/0	4.5	4.09	3.94 - 4.30	1
1674	40 x 32	G150* 1/0 X G150* 1/0	3.8	2.82	2.74 - 2.98	1
1675	40 x 32	DE150 1/0 X DE150 1/0	4.0	2.84	2.73 - 2.95	1
1678	40 x 40	G150* 1/0 X G150* 1/0	3.6	3.12	3.03 - 3.29	1
2113	60 x 56	E225 1/0 X D450 1/0	3.1	2.30	2.23 - 2.37	1
2114	56 x 48	E225 1/0 X E225 1/0	3.3	2.69	2.62 - 2.76	1
2116	60 x 58	E225 1/0 X E225 1/0	3.7	3.06	2.97 - 3.15	1
2117	66 x 55	E225 1/0 X E225 1/0	3.7	3.18	3.08 - 3.27	1
2125	40 x 39	E225 1/0 X G150* 1/0	3.6	2.54	2.44 - 2.68	1
2157	60 X 35	E225 1/0 X G75 1/0	5.1	4.36	4.18 - 4.54	1
2165	60 x 52	E-225 1/0 X G150* 1/0	4.0	3.55	3.43 - 3.72	1
2166	60 X 38	E225 1/0 X G75 1/0	5.5	4.60	4.41 - 4.79	1
2313	60 x 64	E225 1/0 X D450 1/0	3.3	2.40	2.33 - 2.47	1
3070	70 x 70	DE300 1/0 X DE300 1/0	3.1	2.76	2.68 - 2.84	1
3080	51 x 30	DE300 1/0 X DE300 1/0	2.3	1.57	1.52 - 1.63	1
3313	60 x 62	DE300 1/0 X DE300 1/0	3.3	2.40	2.33 - 2.47	1
7628	44 x 31	G75 1/0 X G75 1/0	6.8	6.00	5.84 - 6.16	1
7629	44 x 34	G75 1/0 X G75 1/0	7.1	6.19	6.03 - 6.35	1
7635	44 x 29	G75 1/0 X G50* 1/0	7.9	6.85	6.68 - 7.02	1
7642	44 x 20	G75 1/0 X G37* 1/0 (texturized)	10.0	6.72	6.52 - 6.92	1
108	60 x 47	D900 1/2 X D900 1/2	2.4	1.40	1.36 - 1.44	2
1000	85 x 85	BC3000 1/0 X BC3000 1/0	0.47	0.33	0.30 - 0.36	2
1017	95 x 95	BC3000 1/0 X BC3000 1/0	0.53	0.36	0.34 - 0.39	2
1027	75 x 75	BC1500 1/0 X BC1500 1/0	0.75	0.59	0.56 - 0.62	2
1035	66 x 68	D900 1/0 X D900 1/0	1.1	0.88	0.80 - 0.96	2
1037	70 X 73	C1200 1/0 X C1200 1/0	1.1	0.68	0.65 - 0.71	2
1065	56 x 56	D450 1/0 X D9001/0	2.1	1.08	1.03 - 1.13	2
1067	70 X 70	D900 1/0 X D900 1/0	1.4	0.91	0.87 - 0.94	2
1634	51 x 30	G150* 1/0 X G150* 1/0	3.7	3.11	3.00 - 3.22	2

Style	Fabric Count Warp x Fill [Per inch]	Yarn [US System]	Thickness (mils) (Reference Only)	Nominal Weight [OSY]	Weight Tolerance [OSY]	Availability ¹
1647	51 x 30	G150* 1/0 X E110* 1/0	4.1	3.55	3.42 - 3.68	2
1649	51 x 38	G150* 1/0 X E110* 1/0	4.7	4.01	3.86 - 4.15	2
1657	51 x 29	G150* 1/0 X G67 1/0	5.9	4.55	4.42 - 4.67	2
1697	44 x 38	G150* 1/0 X G150* 1/0	3.7	3.15	3.04 - 3.36	2
2319	60 x 49	E225 1/0 X E225 1/0	3.4	2.72	2.64 - 2.80	2
2112	40 x 39	E225 1/0 X E225 1/0	3.2	2.04	1.98 - 2.10	2
3113	51 x 30	E225 1/0 X G150* 1/0	3.2	2.50	2.42 - 2.58	2
3323	60 x 46	DE300 1/0 X E225 1/0	3.4	2.40	2.31 - 2.49	2
6060	60 x 60	DE600 1/0 X DE600 1/0	1.9	1.15	1.11 - 1.19	2
7196	44 x 33	G67 1/0 X G67 1/0	7.9	6.72	6.52 - 6.92	2
7624	44 x 24	G75 1/0 X G75 1/0	6.4	5.44	5.28 - 5.60	2
7640	44 x 34	G75 1/0 X G50* 1/0	9.8	7.60	7.34 - 7.86	2
7652	32 x 32	G50* 1/0 X G50* 1/0	8.7	7.60	7.35 - 7.85	2
7667	44 x 31	G67 1/0 X G67 1/0	7.2	6.54	6.37 - 6.71	2
7669	44 x 31	G75 1/0 X G67 1/0	7.0	6.17	5.98 - 6.35	2
7688	44 x 35	G75 1/0 X G67 1/0	7.5	6.49	6.30 - 6.68	2
112	40 x 39	D450 1/2 X D450 1/2	3.6	2.08	2.02 - 2.14	3
113	60 x 64	D450 1/2 X D900 1/2	3.4	2.39	2.32 - 2.46	3
116	60 x 58	D450 1/2 X D450 1/2	4.0	3.09	3.00 - 3.18	3
119	54 x 50	D450 1/2 X D450 1/2	3.6	2.71	2.63 - 2.79	3
1012	70 x 70	BC2250 1/0 X BC2250 1/0	0.71	0.36	0.34 - 0.38	3
1015	96 x 96	BC2250 1/0 X BC2250 1/0	0.59	0.50	0.48 - 0.52	3
1020	55 x 55	C1800 1/0 X C1800 1/0	0.98	0.36	0.34 - 0.38	3
1044	44 x 44	DE100 1/0 X DE100 1/0	5.6	5.05	4.90 - 5.20	3
1047	47 x 47	DE100 1/0 X DE100 1/0	5.8	5.44	5.28 - 5.60	3
1070	60 x 35	D450 1/0 X D900 1/0	1.8	1.01	0.97 - 1.05	3
1116	60 x 58	D225 1/0 X D225 1/0	3.5	3.06	2.97 - 3.15	3
1165	60 x 52	D450 1/2 X G150* 1/0	4.0	3.57	3.43 - 3.77	3
1180	60 x 50	D450 1/0 X D450 1/0	2.3	1.44	1.40 - 1.48	3
1316	61 x 61	D225 1/0 X D225 1/0	4.0	3.18	3.10 - 3.26	3
1502	52 x 50	E125 1/0 X E125 1/0	5.9	4.78	4.61 - 4.95	3
1503	64 x 46	DE150 1/0 X DE150 1/0	5.3	4.36	4.21 - 4.51	3
1676	56 x 48	DE150 1/0 X DE150 1/0	4.6	4.06	3.90 - 4.22	3
2119	54 x 50	E225 1/0 X E225 1/0	3.4	2.66	2.58 - 2.74	3
2316	61 x 61	E225 1/0 X E225 1/0	3.8	3.13	3.04 - 3.22	3
3132	60 x 60	D450 1/0 X E225 1/0	2.8	2.32	2.24 - 2.40	3
7627	44 x 30	G75 1/0 X G75 1/0	6.5	5.87	5.70 - 6.02	3
7637	44 x 22	G75 1/0 X G37* 1/0	8.8	6.73	6.53 - 6.93	3
7650	44 x 23	G75 1/0 X G50* 1/0	7.5	6.12	5.93 - 6.31	3
7660	30 x 30	G75 1/0 X G75 1/0	5.9	4.73	4.61 - 4.85	3

Note: This table is sorted by 'Availability', and then by 'Style'.

*In SI areas, the following four yarn replacements are used: G146 in lieu of G150, E113 in lieu of E110, G49 in lieu of G50 and G36 in lieu of G37. The nominal weights may vary (see Table 3-3 and its associated footnotes).

¹Availability Status

1. generally available
2. limited availability
3. inactive styles