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Copper-clad laminates for printed
wiring boards — Synthetic fiber
fabric base, epoxy resin

ICS 31. 180

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Copper-clad laminates for printed wiring boards
— Synthetic fiber fabric base, epoxy resin

1 Scope This Japanese Industrial Standard specifies the copper-clad laminates for printed wiring boards using polyester fiber fabric base, epoxy resin (hereafter referred to as "copper-clad laminates").

Remarks: The following standards are cited in this Standard:

JIS C 5603 *Terms and definitions for printed circuits*

JIS C 6480 *General rules of copper-clad laminates for printed wiring boards*

JIS C 6481 *Test methods of copper-clad laminates for printed wiring boards*

2 Definitions For the purpose of this Standard, the principal definitions specified in JIS C 5603 apply.

3 Type designation

3.1 Structure of type designation The type designation shall be formed in the following arrangement:

[Symbol denoting kind of copper- clad laminate]	[Hyphen]	[Symbol denoting base material and resin]	[Symbol denoting charac- teristics]	[Symbol denoting thick- ness and arrange- ment of copper foil]	[Symbol denoting size]
[3.2.1]		[3.2.2]	[3.2.3]	[3.2.4]	[3.2.5]
Example: FCL	—	SE	1F	35/0	A
[Symbol denoting thickness]	[Hyphen]	[Symbol denoting toler- ances on thick- ness]	[Symbol denoting appear- ance]	[Symbol denoting flame re- tardance]	
[3.2.6]		[3.2.7]	[3.2.8]	[3.2.9]	
Example: 16	—	1	1	V1	

3.2 Symbols

3.2.1 Kind of copper-clad laminate The symbol denoting kind of copper-clad laminate shall be English capital letters FCL based on 3.2.1 of JIS C 6480.

3.2.2 Base material and resin The symbol denoting base material and resin shall be English capital letters SE representing "synthetic fiber fabric base, epoxy resin" based on 3.2.2 of JIS C 6480.

3.2.3 Characteristics The symbol denoting characteristics shall be 1 or 1F based on 3.2.2 of JIS C 6480.

3.2.4 Thickness and arrangement of copper foil The symbol denoting thickness of copper foil shall be as shown in Table 1 based on 3.2.3 of JIS C 6480.

The arrangement shall be symbolized in such a way that the symbol denoting thickness of upper copper foil and that of lower copper foil are written in front and behind a slash, and in the case of single-sided copper-clad laminate, 0 is appended to the slash.

When the double-sided copper-clad laminate is formed by copper foil of different thickness, the symbol denoting the thicker copper foil shall be shown in front of the slash.

Table 1 Thickness of copper foil

Unit: mm

Symbol	Thickness
18	0.018
35	0.035
70	0.070

For a thickness other than the above-mentioned, symbols of two or three digits shall be used.

3.2.5 Size The symbol denoting size shall be as shown in Table 2 based on 3.2.4 of JIS C 6480.

Table 2 Size

Unit: mm

Symbol	Size
A	1 000 × 1 000
B	1 000 × 1 200
S	Other than the above-mentioned

3.2.6 Thickness The symbol denoting thickness shall be as shown in Table 3 based on 3.2.5 of JIS C 6480.