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Copper-clad laminates for printed
wiring boards — Paper base, epoxy
resin

ICS 31.180

Descriptors : laminates, copper, printed circuits, printed-circuit boards, printed-circuit
bases, epoxy resins, paper

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In the event of any doubts arising as to the contents,
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Copper-clad laminates for printed wiring boards — Paper base, epoxy resin

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

Remarks 1 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 Corresponding International Standard to this Standard is as follows:

IEC 249-2-3(1987) *Base materials for printed circuits. Part 2: Specifications*

Specification No. 3: Epoxide cellulose paper copper-clad laminated sheet of defined flammability (vertical burning test)

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	—	PE	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	V0	

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 PE representing "paper base, epoxy resin" based on 3.2.2 of JIS C 6480.

3.2.3 Characteristics The symbol denoting characteristics shall be 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 other thickness than those mentioned above, 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