

Use of C13/C14 IEC Connector with 18/3 SJT Wire

The C14/C13 IEC 60320 connector carries an international current rating of 10 amps. Product manufacturers typically use the international connector rating for products as most information technology (IT) products are made for worldwide use. The amount of VA or watts available at 10 amps is shown in table below. These connectors are approved for use at a maximum voltage of 250 volts.

Voltage	Amps	Equivalent VA/ max Watts
120	10	1,200
208	10	2,080
240	10	2,400

In general IT equipment manufacturers will change to a C20/C19 configuration on higher power usage devices. 18/3 SJT wire matches the 10 amp capacity of the C14/C13 connector. Thus C14/C13 and 515P/C13 cable assemblies are properly matched with SJT 18/3 wire and can be UL labeled in those configurations.

Larger wire such as 16/3 can be used for C13 applications, and occasionally is, however most C13 computer input cable assemblies are manufactured and supplied at a 18/3 rating.

SJT Wire ratings are shown in the table below.

SJT Wire Size	Amp Rating
18	10
16	13
14	15
12	20

Note: The international rating of C20/C19 connectors is 16 amps.

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