

TABLE 8.12

Thermographic Survey Suggested Actions Based on Temperature Rise

Temperature Difference (T) Based on Comparisons between Similar Components under Similar Loading	Temperature Difference (T) Based on Comparisons between Component and Ambient Air Temperatures	Recommended Action
1°C–3°C	1°C–10°C	Possible deficiency; warrants investigation
4°C–15°C	11°C–20°C	Indicates probable deficiency; repair as time permits
—	21°C–40°C	Monitor until corrective measures can be accomplished
>15°C	>40°C	Major discrepancy; repair immediately

Source: From NETA MTS-2005, Table 100.18. With permission.

Note: Temperature specifications vary depending on the exact type of equipment. Even in the same class of equipment (i.e., cables) there are various temperature ratings. Heating is generally related to the square of the current; therefore, the load current will have a major impact on ΔT . In the absence of consensus standards for ΔT , the values in this table will provide reasonable guidelines.