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Sommario/riassunto	<p>Specific testing requirements for qualifying electrical resistance heating cables and heating devices for use in industrial applications, as well as a basis for electrical and thermal design, are included in this standard. Unclassified applications and explosive atmosphere applications that use both Divisions and Zone methods of classification are included.</p> <p>Keywords: constant wattage heating cables, electrical design, heating cable, heat loss, heat tracing, IEEE 515, parallel heating cables, pipelines, series heating cables, self-regulating heating cables, surface heating devices, thermal design, trace heater, trace heating, vessel heater.</p>