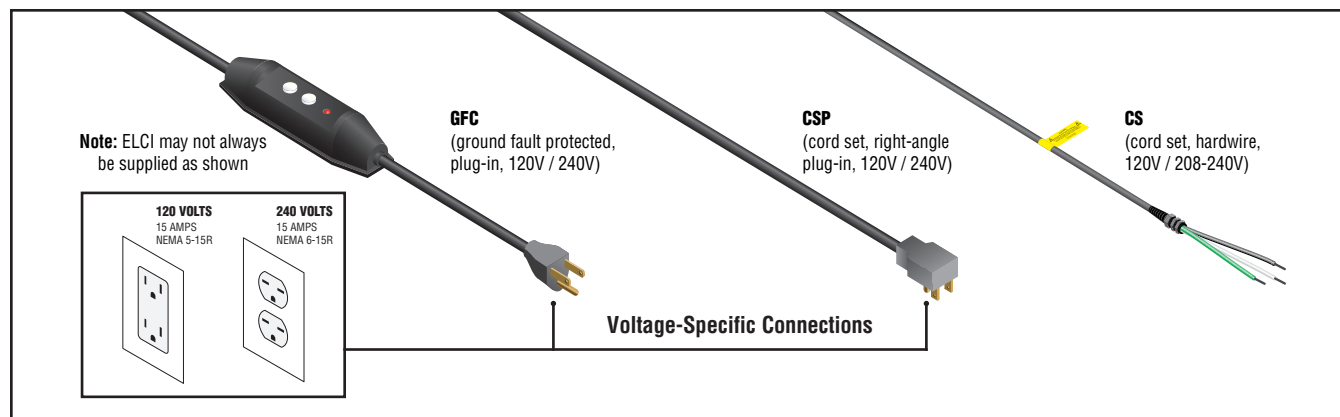


Electrical Connection Options GFC vs CSP vs CS

Specification



Description

Heat-Line systems are available in multiple electrical connection options: **GFC** (ground fault protected, plug-in, 120V or 240V), **CSP** (right-angle plug-in, non-ground fault protected, 120V or 240V), and **CS** (cord set, hardwire, 120V or 208-240V) subject to system amperage and application requirements.

Line voltage (120-240V) Heat-Line systems rated 15A or less are supplied by default with a GFC (ground fault protected, plug-in) connection. A CS (cord set, hardwire) connection is available as an option. Line voltage (120-240V) Heat-Line systems rated over 15A are only supplied with a CS (cord set, hardwire) connection. Select line voltage (120-240V) Heat-Line systems rated 15A or less can be supplied with a CSP (right-angle plug-in, non ground fault protected) connection by special request. Low voltage (12-24V) Heat-Line Kompensator systems are supplied exclusively with a CS (cord set, hardwire) connection.

GFC GFC ground fault protected with a voltage-specific integral 27-30 milliamp in-line ELCI (equipment level circuit interrupter) that plugs into a standard wall receptacle which is voltage specific to the system. Cold cord length is 4 feet on 120 volt models and 6 feet on 240 volt models. Extended cold cord options up to 24 feet are available upon request. Heat-Line recommends the use of specification-grade receptacles (NEMA 5-15R for 120 volt) and (NEMA 6-15R for 240 volt) for dependability.

Ground fault protected GFC systems are ordered with a suffix – “GFC” after the product number.

CSP Unprotected right-angle plug-in cord set that plugs into a standard wall receptacle which is voltage specific to the system. This option is only available for a select range of heating cable systems and approved by special order only. A default cord length of 6 feet is provided for all voltages and models. Extended cold cord options up to 24 feet are available upon request. Heat-Line recommends the use of specification-grade receptacles (NEMA 5-15R for 120 volt) and (NEMA 6-15R for 240 volt) for dependability. The CSP option requires a ground fault equipment protection (GFEP) solution be added by others, such as a GFEP breaker, or GFEP-enabled controller, or other ELCI device.

Unprotected CSP systems are ordered with suffix – “CSP” after the product number.

CS Cord set only, the system is supplied with a default 6 foot long SJEOOW cord with fly leads that is finished with a ½ inch knock-out strain relief fitting. Extended cold cord options up to 24 feet are available upon request. The CS option requires a ground fault equipment protection (GFEP) solution be added by others, such as a GFEP breaker, or GFEP-enabled controller, or other ELCI device.

Unprotected CS systems are ordered with suffix – “CS” after the product number.

Note: The CEC (Canadian Electrical Code) and the NEC (National Electrical Code – USA) require GFEP on all heating cable systems. The CS option is often used with hard wired professional controls like the GFA-STAT, which is a NEMA 4X thermostat complete with integral and monitored 30 milliamp GFEP.

Heat-Line Freeze Protection Systems

1095 Green Lake Road
Algonquin Highlands, ON Canada
KOM 1S0
Tel: 1-705-754-4545
1-800-584-4944
Fax: 1-705-754-4567
info@heatline.com
www.heatline.com

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