



## HEAT TRACE CABLE

MODEL : FCW 45 - 230

TEMP. : UPTO 205°C HEAT TRACING CABLE



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## CONSTANT WATTAGE HEATING CABLE (FCW)

Sensewell FCW is a constant wattage parallel circuit heating cable designed for pipe and equipment heat-tracing in industrial applications. This family offers an economical alternative to our self regulating heating cables but requires more skill for installation and also requires more advanced control and monitoring systems. The heating cables are zone parallel heaters constructed from a heating element wrapped around two parallel conductors. The distance between conductor contact points forms the heating zone length. The parallel construction allows it to be cut-to-length and terminated in the field. FCW heating cables can withstand routine steam purges and temperature exposure to 205°C power off.

## STRUCTURE

**A Twin 12 AWG Copper Buss Wires** — Provide reliable, consistent electrical current.

**B FEP Insulation Jacket** — Electrically insulates buss wires.

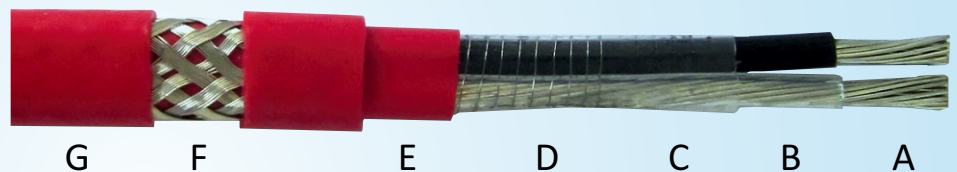
**C Pairing Jacket** — Secures two buss wires together and provides wrapping surface for Nichrome wire.

**D Nickel Chromium Wire** — Heating component of the cable.

**E FEP Insulation** — Rugged outer sheath protects heating cable, assures longer service life, and provides protection against environmental application hazards.

**F Tinned Copper Braid** — Plated copper braid increases robust construction, provides ground path and provides additional protection in any location.

**G FEP Overjacket** — Fluoropolymer overjacket, over the braid, provides protection from most aqueous and chemically corrosive solutions.



## FEATURES

- Uniform Thermal Output
- Accurate, Easy to Control and Monitor
- Low Energy Cost
- No Inrush at Any Ambient
- Industrial/Process and Commercial/Construction

## APPLICATIONS

- Flexible to Most Any Configuration
- Fluoropolymer Jacket
- Maximum Exposure Temperature, Power Off, 400°F(205°C)
- 11,22,33 and 45 W/m
- 230V

## OPTIONS

- FCW-11
- FCW-22
- FCW-33
- FCW-45

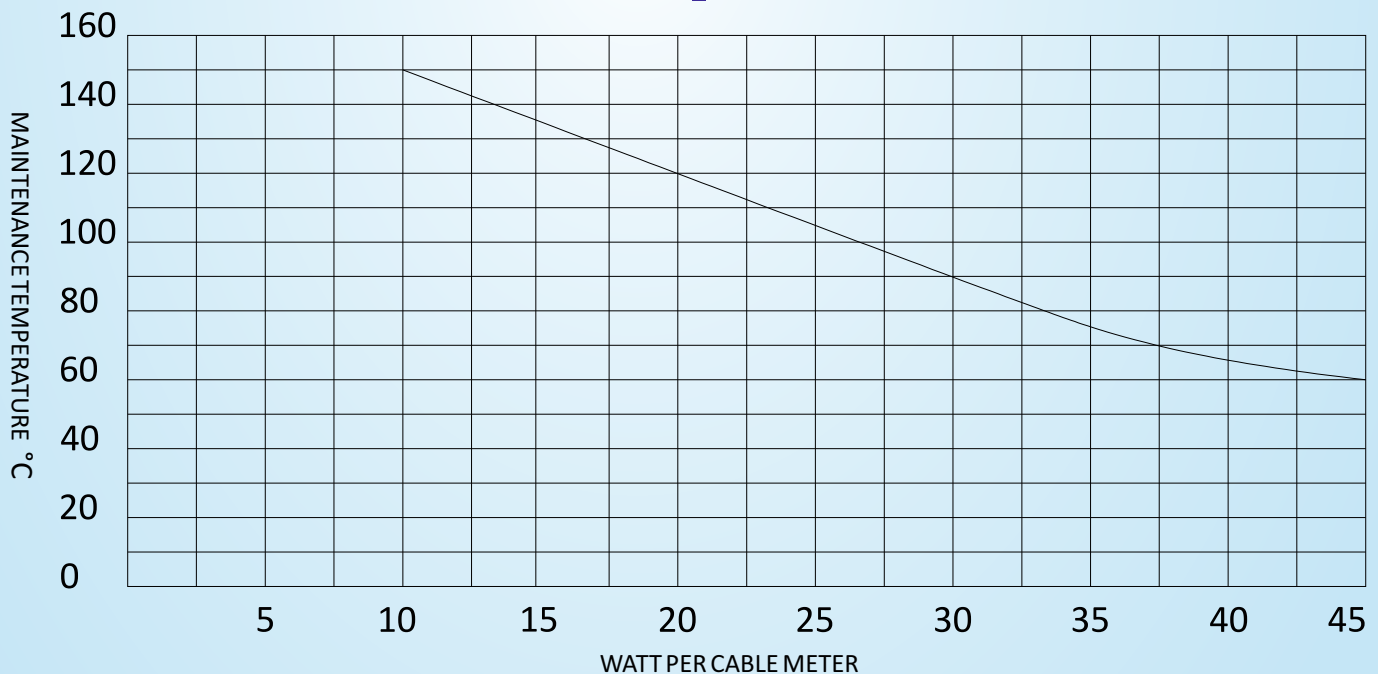
## APPROVALS

PCEC	CE11.5016U Exe IIC Gb/DIP A22 IP65
IECEX	IECEX LCI 11.0071U EX e IIC Gb Ex t IIIC Db IP65
ATEX	LCIE 11 ATEX 3094 U ⓂII 2 GD EX e IIC Gb Ex t IIIC Db IP65

## SPECIFICATIONS

Area classification	Hazardous, Zone 1, Zone 2 (Gas), Zone 21, Zone 22 (Dust) Ordinary
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosive consult your sensewell representative
Supply voltage	230VAC (Contact your local sensewell representative for data on other voltages)
Minimum installation temperature	-40°C
Minimum bend radius	50 mm

## MAXIMUM ALLOWABLE WATTAGE BASED ON MAINTENANCE TEMPERATURE:



## PERFORMANCE AND RATING DATA:

Catalog Number	Service Voltage	Output W/m	Maximum Length/m	Max.Maintenance Temperature/°C	Max. Exposure Temperature/°C
FCW-10	220	10.0	210	150	205
	230	11.0	210	150	205
	240	11.9	210	150	205
FCW-20	220	20.0	180	120	205
	230	22.0	180	115	205
	240	23.8	180	110	205
FCW-30	220	30.0	150	90	205
	230	33.0	150	80	205
	240	35.7	150	75	205
FCW-40	220	40.0	140	65	205
	230	45.0	140	60	205
	240	47.6	140	--	205

## PERFORMANCE AND RATING DATA:

Catalog Number	Service Voltage	Output W/m	MAX. CIRCUIT LENGTH (M) BY CIRCUIT BREAKER SIZE		
			15A	20A	30A
FCW-10	220	10.0	210	--	--
	230	11.0	210	--	--
	240	11.9	210	--	--
FCW-20	220	20.0	165	180	--
	230	22.0	155	180	--
	240	23.8	150	180	--
FCW-30	220	30.0	110	145	150
	230	33.0	105	140	150
	240	35.7	100	135	150
FCW-40	220	40.0	80	110	140
	230	45.0	78	105	140
	240	47.6	75	100	140

The above numbers are for circuit length estimation only. For more detailed information please contact your local sensewell representative.

Sensewell requires the use of a 30 mA residual current device to provide maximum safety and protection from fire.

Where design results in a higher leakage current, a maximum 300 mA residual current device may be used. All safety aspects

## COMPONENTS

Sensewell offers a full range of components for power connections, splices and end seals.

These components must be used to ensure proper functioning of the product and compliance with electrical requirements.