



Features

- Uniform Thermal Output
- Low Energy Cost
- Industrial/Process and Commercial/Construction
- Flexible to Most Any
- 10.20.30 and 40 W/m
- 230V
- Accurate, Easy Control and Monitor
- No Inrush at Any Ambient Applications
- Configuration
- Fluoropolymer Jacket
- Maximum Exposure Temperature, Power Off, 400 F (205 C)

Description

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.

Ordering Information

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, 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

Approvals

PCEC

CE11.50 16U
Exe IIC GB/DIP A22 IP65

IECEX

IECEX LCI 11.0071U
EX e IIc Gb
EX t IIIc Db IP65

ATEX

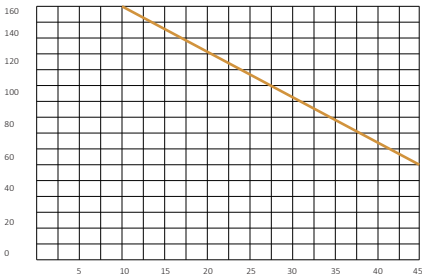
LCIE 11 ATEX 3094 U
II 2 GD
EX e IIc Gb
EX t IIIc Db IP65



Specifications

Area classification	Hazardous,Zone 1,Zone 2 (Gas),Zone 21,Zone 22(Dust)
Trna classification	Trna classification Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	Organics and corrosives For aggressive organics and corrosives consult your jiahong representative
Supply voltage	230Vac(Contact your local jiahong 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			
			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 Jiahong representative.

Jiahong 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

Jiahong 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.