

Anti-condensation heating tape

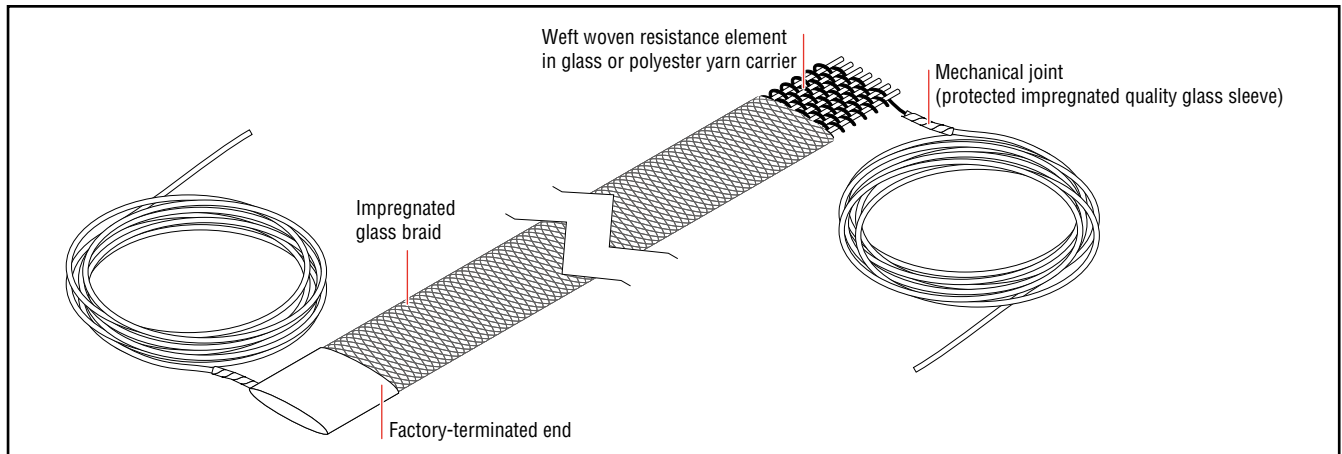
Isopad IT-ACM heating tape is specifically designed in conjunction with major motor manufacturers to prevent condensation within rotating electrical equipment, such as electric motors, generators, and even large shipboard alternators. The tapes are particularly useful on motors which operate in damp or wet conditions. They offer a low-cost, easily installed solution which can save the expense of costly rewinds and plant downtime.

The product line covers motor heating tapes for operation on 230 V, 115 V and 48 V, with lengths from 200 mm up to 1702 mm.

ACMs are factory-terminated heating tapes having a resistance element which is woven into a glass or polyester yarn carrier. The element/carrier assembly is sheathed in an acrylic adhesive-backed polyester-film-laminated glass-fibre tape.

The tape is terminated with cold leads and a glass-fibre braid outer sheath completes the assembly.

The appropriate ACM heating tape is fitted around the end of the motor windings and held in position using narrow gauge tape fixings (not cords). Normally, one ACM heating tape is installed to each of the stator windings.



Area Specifications

Area classification	Nonhazardous, ordinary area
Ingress protection	IP54
Electrical protection class	See note
Maximum withstand temperature (power off)	155°C
Minimum operating temperature	10°C

Note: These are components for further installation. The protective arrangements of Protection Class I or Class II must be followed during installation of the components and are the responsibility of the assembly company. Please refer to the manual for further information.

Standard Manufacturing Sizes

Width	16 mm $\pm 10\%$
Thickness	2 mm $\pm 10\%$

Heater Construction

Type	Resistance heating cable
Material	Weft woven various alloys in glass or polyester yarn carrier
Material of insulation	Acrylic adhesive backed, polyester-film laminated glass-fibre tape
Material of outer sheath	Impregnated woven glass-silk

Lead Connection

Connection length	Terminated at each end with a 0.45 m cold lead
-------------------	--

Technical Data

Frequency	50-60 Hz
Nominal operating voltage	220 / 110 Vac
Maximum operating temperature	155°C
Minimum bend radius	30 mm
Minimum spacing	5 mm

Ordering Information

Nominal voltage	Part number	Length ⁽¹⁾ (mm)	Standard motor frame size	Nominal power ⁽²⁾ (W)	Power per meter (W/m)
220 V	347164-000	305	90	25	81.9
	337962-000	432	100	26	60.2
	646924-000	686	112	21	30.6
	215434-000	686	132 + 160	40	58.3
	236126-000	762	180 + 200	26	34.1
	965682-000	1016	225 + 250	42	41.3
	113658-000	1067	280	54	50.6
	418282-000	1473	280	65	44.1
	644568-000	1702	315	99	58.2
	422416-000	305	90	22	72.1
110 V	754738-000	432	100	27	62.5
	122040-000	686	112	21	30.6
	120298-000	686	132 + 160	40	58.3
	513882-000	762	180 + 200	25	32.8
	440108-000	1016	225 + 250	39	38.4
	061654-000	1067	280	50	46.9
	899918-000	1473	280	67	45.5
	586352-000	1702	315	103	60.5

⁽¹⁾ Tolerances <2000 mm ± (1% + 50 mm)
>2000 mm ± (2% + 100 mm)

⁽²⁾ Tolerances ±10%