Europe

Heating catalogue 2023

WIPE hotwire
The trusted manufacturing partner

Content

INDOOR HEATING

OUTDOOR HEATING

WIPE

About us

Established in 2004

We offer well-engineered and high quality products that meet International safety and performance standards.

- Underfloor heating cables/mats, snow melting & de-icing cables & trace heating cables

- Specility wires & cables Internal wiring of Panels & electrical equipments

Quality & environmental management policy

WIPE Hotwire is committed to satisfying customers by delivering quality products and services, in accordance with their specified and implied needs, as well as meeting product-related statutory and regulatory requirements.

WIPE Hotwire credo

4S

SHANTI
(Peace)

SADBHAWNA
(Compassion)

SADACHAR
(Good Conduct)

SWABHIMAN
(Pride)

 # WIPE hotwire Credo/Culture

Undertile heating cable (15.7 W/m) & mat (150 W/Sq.m)- for all surfaces

Heating cable

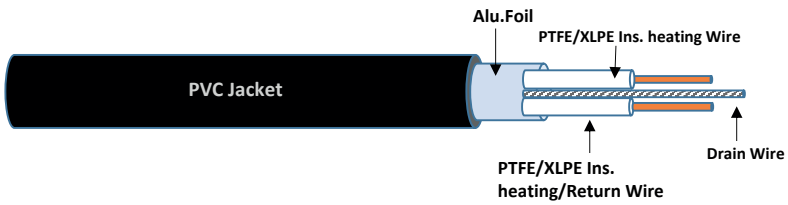
Heating Conductor	Multi-strand/solid (customizing)
Return Conductor	Multi-strand/solid (customizing)
Insulation	PTFE / XLPE (customizing)
Shielding	Polyester laminated al. foil with drain wire
Outer Jacket	High temp. PVC
Cable diameter(Nom.)	5.0 mm
Linear Wattage	15.7W/m
Supply Voltage	230 Vac, 50 Hz

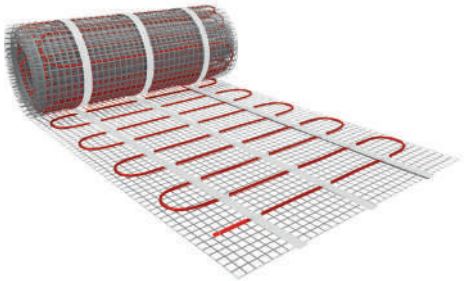
Supply lead/cold tail

Cold tails	Integrated/seperate
Conductor	Solid/multi-strand tinned copper (AWG 18 &16)
Insulation	XLPE/PTFE
Shielding	Aluminium foil with drain wire
Outer jacket	High temperature PVC (thickness-30Mil)
Length of cable	3.5 mtr.

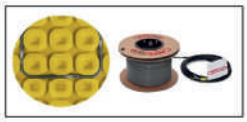
Heating mat

Carrier	FG mesh, de-coupling membrane, metallic strip
Mesh type	Sticky, non-sticky, cross filament tape
Mesh width	0.5 m
Heat density (spacing)	100 (70 mm), 125 (87.5 mm), 150 (105mm), 165 (115 mm) W/m²
Cable spacing	105 mm

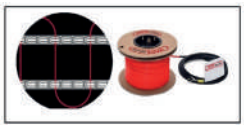




Un-Coupling membrane Friendly



Installation Strip friendly



VDE
Approved Cable

Suitable for Indoor Heating

Product code	Wattage	Cable	Mat area at 105 mm spacing		Resistance	Current
		Length m	Mat area (m²)	Mat length (m)	Total	Amp.
MHM/FHMX-XXX-01	150,0	9,55	1,00	2,0	352,67	0,65
MHM/FHMX-XXX-1.5	225,0	14,33	1,50	3,0	235,11	0,98
MHM/FHMX-XXX-02	300,0	19,11	2,00	4,0	176,33	1,30
MHM/FHMX-XXX-2.5	375,0	23,89	2,50	5,0	141,07	1,63
MHM/FHMX-XXX-03	450,0	28,66	3,00	6,0	117,56	1,96
MHM/FHMX-XXX-3.5	525,0	33,44	3,50	7,0	100,76	2,28
MHM/FHMX-XXX-04	600,0	38,22	4,00	8,0	88,17	2,61
MHM/FHMX-XXX-4.5	675,0	42,99	4,50	9,0	78,37	2,93
MHM/FHMX-XXX-05	750,0	47,77	5,00	10,0	70,53	3,26
MHM/FHMX-XXX-06	900,0	57,32	6,00	12,0	58,78	3,91
MHM/FHMX-XXX-07	1050,0	66,88	7,00	14,0	50,38	4,57
MHM/FHMX-XXX-08	1200,0	76,43	8,00	16,0	44,08	5,22
MHM/FHMX-XXX-09	1350,0	85,99	9,00	18,0	39,19	5,87
MHM/FHMX-XXX-10	1500,0	95,54	10,00	20,0	35,27	6,52

Note: XXX- (100,125,150,165) W/m²

Aluminum foil heating mat 140 W/Sq.m - floating floors

Specification

Heating conductor	Twin solid conductor (both heating)
Insulation	ETFE (thickness-0.30 mm)
Wire dia.	0.90 to 1.1mm
Outer shielding	0.10 mm aluminium wire braiding (for easy earth connection)
Cable size	2.4X1.4 mm (flat shielded cable)
Aluminium foil	Self-adhesive aluminium foil (14µ) laminated glass fiber cloth (150 µ)
Mat width	0.5 m
Final mat thickness	1.5 to 1.7mm
Heat density	140W/Sq.m
Wire spacing	75 mm
Operating voltage	230 V
Linear wattage	10.75W/m
Cold tail	5 m long, 0.75 Sq. mm X3C PVC insulated & jacketed cable

Suitable for Indoor Heating

Product code	Wattage	Cable	Mat area		Resistance	Current
		Length m	Mat area (m^2)	Mat length (m)	(Ω)	Amp.
WUFAFM-140-01	140	13,3	1,0	2,0	377,86	0,61
WUFAFM-140-02	280	26,6	2,0	4,0	188,93	1,22
WUFAFM-140-03	420	39,9	3,0	6,0	125,95	1,83
WUFAFM-140-04	560	53,2	4,0	8,0	94,46	2,43
WUFAFM-140-05	700	66,5	5,0	10,0	75,57	3,04
WUFAFM-140-06	840	79,8	6,0	12,0	62,98	3,65
WUFAFM-140-07	980	93,1	7,0	14,0	53,98	4,26
WUFAFM-140-08	1120	106,4	8,0	16,0	47,23	4,87
WUFAFM-140-09	1260	119,7	9,0	18,0	41,98	5,48
WUFAFM-140-10	1400	133,0	10,0	20,0	37,79	6,09

In-Slab underfloor heating cable(17W/m) & mat (200 W/Sq.m) all surfaces - larger area

Heating cable

Heating conductor	Multi-strand
Return conductor	Multi-strand- tin plated copper
Insulation	XLPE
Shielding	Polyester laminated al. foil with drain wire
Outer Jacket	High temperature PVC
Cable dia (Nom.)	6.5-7.0 mm
Linear Wattage	17 W/m
Supply Voltage	230 Vac, 50 Hz

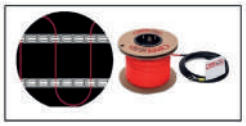
Supply lead / cold tail

Cold tails	Integrated/seperate
Conductor	Solid/ multi-strand tinned Copper (AWG 18 &16)
Insulation	XLPE
Shielding	Aluminium foil with drain wire
Outer jacket	High temperature PVC (thick ness-30Mil)
Length of cable	3.5 mtr.

Heating mat

Carrier	FG Mesh, metallic fixing strip
Mesh Type	Sticky, Non-sticky, cross filament tape
Mesh Width	0.5 m
Heat density	200W/m^2
Cable spacing	85 mm

Metalic Strip friendly



VDE Approved Cable

Suitable for Indoor Heating

Product code	Wattage	Cable	Mat area at 85 mm spacing		Resistance	Current
		Length m	Mat area (m^2)	Mat Length (m)	Total	Amp.
MHCX-17-009	150	8,82	0,75	1,50	352,67	0,65
MHCX-17-018	300	17,65	1,50	3,00	176,33	1,30
MHCX-17-024	400	23,53	2,00	4,00	132,25	1,74
MHCX-17-029	500	29,41	2,50	5,00	105,80	2,17
MHCX-17-035	600	35,29	3,00	6,00	88,17	2,61
MHCX-17-041	700	41,18	3,50	7,00	75,57	3,04
MHCX-17-050	850	50,00	4,25	8,50	62,24	3,70
MHCX-17-059	1000	58,82	5,00	10,00	52,90	4,35
MHCX-17-074	1250	73,53	6,25	12,50	42,32	5,43
MHCX-17-088	1500	88,24	7,50	15,00	35,27	6,52
MHCX-17-100	1700	100,00	8,50	17,00	31,12	7,39
MHCX-17-124	2100	123,53	10,50	21,00	25,19	9,13
MHCX-17-153	2600	152,94	13,00	26,00	20,35	11,30
MHCX-17-171	2900	170,59	14,50	29,00	18,24	12,61
MHCX-17-194	3300	194,12	16,50	33,00	16,03	14,35

In-concrete, earth-soil heating cable (30 W/m) & mat (300W/Sq.m) - very large area

Heating cable

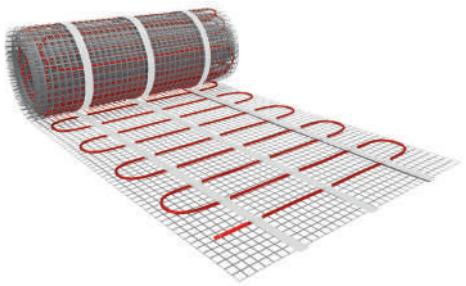
Heating conductor	Solid/multi-strand
Return conductor	Solid/multi-strand- tin plated copper
Insulation	XLPE
Shielding	Polyester laminated al. foil with drain wire
Outer Jacket	High temperature PVC
Cable dia.(Nom.)	6.5 mm
Linear wattage	30 W/m
Supply voltage	230V, 50Hz

Supply Lead / cold tail

Cold tails	Integrated/seperate
Conductor	Solid/multi-strand tinned copper (AWG 18 &16)
Insulation	XLPE
Shielding	Aluminium foil with drain wire
Outer jacket	high temperature PVC (thickness-30Mil)
Length of cable	3.5 mtr.

Heating mat

Carrier	FG mesh, metallic fixing strip
Mesh type	Sticky, non-sticky, cross filament tape
Mesh width	0.5 m
Heat density	300W/m^2
Cable spacing	100 mm



Suitable for Indoor Heating

Product code	Wattage	Cable	Mat area at 100 mm spacing		Resistance	Current
		Length m	Mat area (m^2)	Mat length (m)	Total	Amp.
WESC/M-30-010	300	10,0	1,0	2,00	176,33	1,30
WESC/M-30-015	450	15,0	1,5	3,00	117,56	1,96
WESC/M-30-020	600	20,0	2,0	4,00	88,17	2,61
WESC/M-30-025	750	25,0	2,5	5,00	70,53	3,26
WESC/M-30-030	900	30,0	3,0	6,00	58,78	3,91
WESC/M-30-040	1200	40,0	4,0	8,00	44,08	5,22
WESC/M-30-050	1500	50,0	5,0	10,00	35,27	6,52
WESC/M-30-060	1800	60,0	6,0	12,00	29,39	7,83
WESC/M-30-070	2100	70,0	7,0	14,00	25,19	9,13
WESC/M-30-080	2400	80,0	8,0	16,00	22,04	10,43
WESC/M-30-100	3000	100,0	10,0	20,00	17,63	13,04
WESC/M-30-120	3600	120,0	12,0	24,00	14,69	15,65
WESC/M-30-140	4200	140,0	14,0	28,00	12,60	18,26

Snow melting heating cable (30 W/m) & mat (300 W/Sq.m) - in-concrete

Heating cable

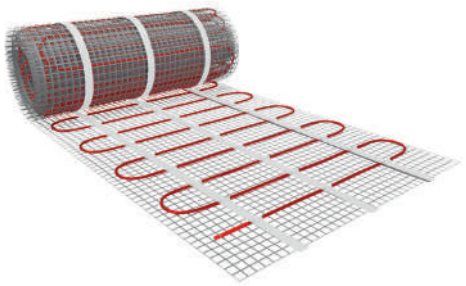
Heating conductor	Solid/multi-strand
Return conductor	Solid/multi-strand- tin plated copper
Insulation	XLPE
Shielding	Polyester laminated al. foil with drain wire
Outer Jacket	High temperature PVC
Cable dia.(nom.)	7 mm
Linear wattage	30 W/m
Supply voltage	230V, 50Hz

Supply lead / cold tail

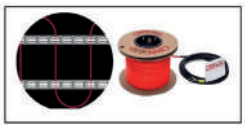
Cold tails	Integrated/seperate
Conductor	Solid/multi-strand tinned copper (AWG 18 &16)
Insulation	XLPE
Shielding	Aluminium foil with drain wire
Outer jacket	high temperature PVC (thickness-30Mil)
Length of cable	3.5 mtr.

Heating mat

Carrier	FG mesh, metallic fixing strip
Mesh type	Sticky, non-sticky, cross filament tape
Mesh width	0.5 m
Heat density	300W/m^2
Cable spacing	100 mm



Metalic Strip friendly



VDE
Approved Cable

Product code	Wattage	Cable	Mat area at 100 mm spacing		Resistance	Current
		Length m	Mat area (m^2)	Mat length (m)	Total	Amp.
MHCX-30-010	300	10	1,0	2,0	176,33	1,30
MHCX-30-015	450	15	1,5	3,0	117,56	1,96
MHCX-30-020	600	20	2,0	4,0	88,17	2,61
MHCX-30-025	750	25	2,5	5,0	70,53	3,26
MHCX-30-030	900	30	3,0	6,0	58,78	3,91
MHCX-30-040	1200	40	4,0	8,0	44,08	5,22
MHCX-30-050	1500	50	5,0	10,0	35,27	6,52
MHCX-30-060	1800	60	6,0	12,0	29,39	7,83
MHCX-30-070	2100	70	7,0	14,0	25,19	9,13
MHCX-30-080	2400	80	8,0	16,0	22,04	10,43
MHCX-30-100	3000	100	10,0	20,0	17,63	13,04
MHCX-30-120	3600	120	12,0	24,0	14,69	15,65
MHCX-30-140	4200	140	14,0	28,0	12,60	18,26

Snow melting heating cable (30 w/ft.) & mat (300W/m.) - in-asphalt

Heating cable

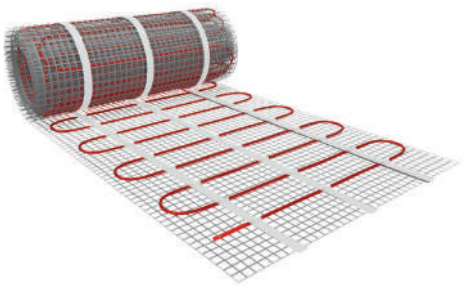
Heating conductor	Twin solid/multi-strand conductors (both heating)
Insulation	PTFE
Shielding	Polyester laminated al. foil with drain wire
Inner jacket	XLPE
Outer Jacket	High temperature PVC
Cable dia.	8.0 mm approx.
Linear wattage	30 W/m
Supply voltage	230V, 50Hz

Supply lead / cold tail

Cold tails	Integrated/seperate
Conductor	Solid/multi-strand tinned copper (AWG 18 &16)
Insulation	XLPE
Shielding	Aluminium foil with drain wire
Outer jacket	High temperature PVC (thickness-30Mil)
Length of cable	3.5 mtr.

Heating mat

Carrier	FG mesh, nylon mesh
Mesh type	Sticky, non-sticky, cross filament tape
Mesh width	0.5 m
Heat density	300 W/m^2
Cable spacing	100 mm



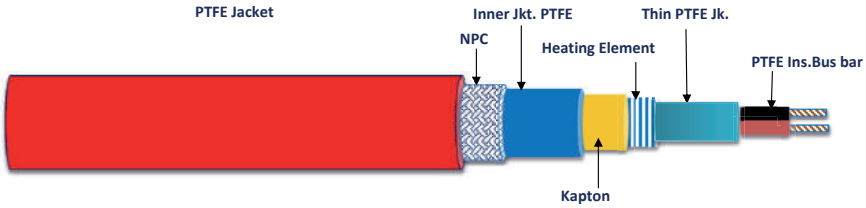
Product code	Wattage	Cable	Mat area at 100 mm spacing		Resistance	Current
		Length m	Mat area (m^2)	Mat length (m)	Total	Amp.
WAHTC-230-30-010	300	1,0	10,0	176,33	17,63	1,3
WAHTC-230-30-015	450	1,5	15,0	117,56	7,84	2,0
WAHTC-230-30-020	600	2,0	20,0	88,17	4,41	2,6
WAHTC-230-30-030	900	3,0	30,0	58,78	1,96	3,9
WAHTC-230-30-040	1200	4,0	40,0	44,08	1,10	5,2
WAHTC-230-30-050	1500	5,0	50,0	35,27	0,71	6,5
WAHTC-230-30-060	1800	6,0	60,0	29,39	0,49	7,8
WAHTC-230-30-070	2100	7,0	70,0	25,19	0,36	9,1
WAHTC-230-30-080	2400	8,0	80,0	22,04	0,28	10,4
WAHTC-230-30-100	3000	10,0	100,0	17,63	0,18	13,0
WAHTC-230-30-120	3600	12,0	120,0	14,69	0,12	15,7
WAHTC-230-30-140	4200	14,0	140,0	12,60	0,09	18,3

Constant wattage cable - roof and gutter heating

Specification:

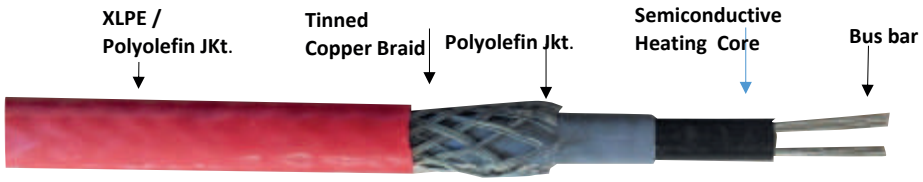
Bus bar Condutor	2X AWG 18 to AWG 15 Stranded Nickel Plated Copper
Bus bar Insulation	PTFE
Pair Binder	PTFE
Heating Element	Nichrome
Isolator	Kapton
Insulation(Inner JKT.)	PTFE (optional)
Shielding	Nickel plated copper braiding
Outer Jacket	PTFE /polyolefin
Applied Voltage	230V

APPLICATION : Constant watt cables are ideal choice for higher temperaure applications where high watt density are required at all time. Constant wattage cable are flexible and can be cut-to in the field. The common use of constant wattage cable is the velocity flow control of heavier materials, oil, wax and or any viscous materials. Constant wattage can be used for freez protection. More common use of constant wattage cable are for piping project, roof and gutter heating.



Product code	Linear Watt	Rated temp.	Approx. surface temp. of cable	Bus bar size	Cable size
WCWC-230-16	16 W/m	`-65° to 260°C	`100°C	2 X AWG 18	3.5 X 5.0
WCWC-230-25	25 W/m	`-65° to 260°C	`150°C	2X AWG 16	3.7 X 5.2
WCWC-230-40	40 W/m	`-65° to 260°C	`200°C	2X AWG 15	3.9 X 5.4

Self regulating cable 10 W/Ft - 40 W/m - roof and gutter



Cable Construction:

Heating Conductor:	Semi-conductive Polymer
Bus bar Conductor:	Tinned Copper
Inner Jacket:	Polyolefin
Shielding:	Tinned Copper Braiding
Outer Jacket:	XLPE / Polyolefin
Working Voltage:	230V

Product code	Max. permissible	Size in mm
Power output at 10°C	Ambient temp.	Flat cable
WSR MC-10 W/m	65°C	8.0 X 5.3
WSR MC-16 W/m	85°C	11.5 X 6.2
WSR F-40W/m 2CR	85°C	12.7 X 6.8

Frost free cable with thermostat 10W/m - water pipes

Heating cable:

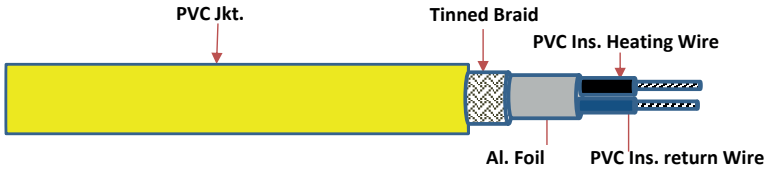
Heating Conductor	Multi-strand & Single wire helically wrapped on Glass fiber yarn
Return Conductor	Multi-strand- Tin Plated Copper
Insulation	PVC
Shielding	Polyester laminated Al. Foil
Outer Jacket	High Temperature PVC
Jacket Color	Yellow
Cable Size	9.5mm X6.0 mm, Flat Cable

Specification: Supply Lead

Size	3 Core,0.75 Sq.mm With molded Euro Plug
Insulation	High Temp. PVC
Jacket	High Temp. PVC
Cable diameter	5.5 mm
Length	3m long

Specification: Thermostat(Fitted end of Heating Cable)

Electrical rating	AC125V/6A AC250V/3A
Cut-on Temp.	5°C
Cut-off Temp.	13°C



VDE
Approved Cable

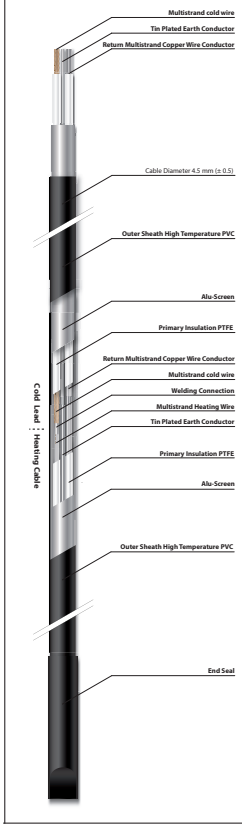
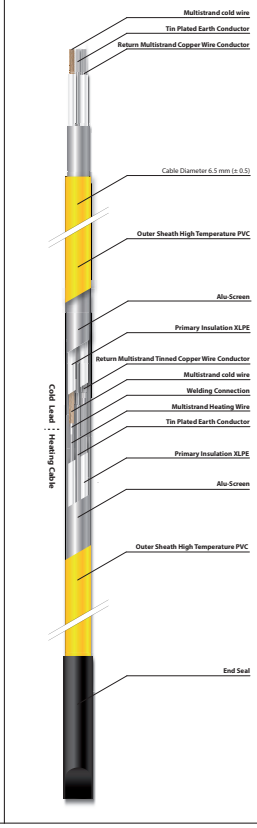
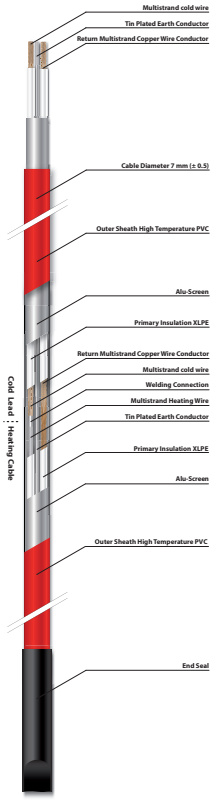
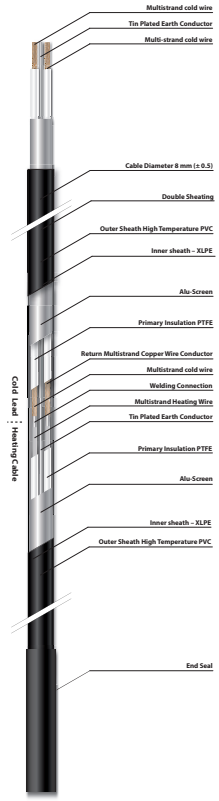
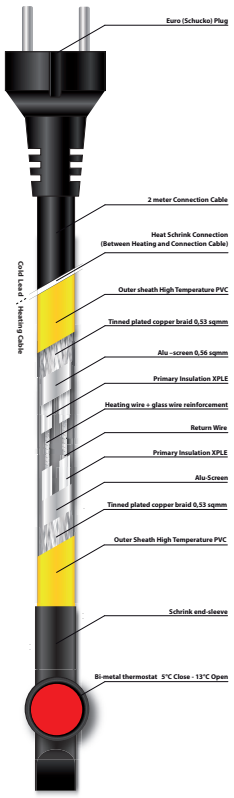
Product code	Wattage	Cable	Cable resistance		Current
		Length(m)	(Ω)	(Ω/m)	(Amp.)
FFC-230-10-01	10	1,0	5290,00	5290,00	0,04
FFC-230-10-02	20	2,0	2645,00	1322,50	0,09
FFC-230-10-04	40	4,0	1322,50	330,63	0,17
FFC-230-10-06	60	6,0	881,67	146,94	0,26
FFC-230-10-08	80	8,0	661,25	82,66	0,35
FFC-230-10-10	100	10,0	529,00	52,90	0,43
FFC-230-10-14	140	14,0	377,86	26,99	0,61
FFC-230-10-18	180	18,0	293,89	16,33	0,78
FFC-230-10-22	220	22,0	240,45	10,93	0,96
FFC-230-10-26	260	26,0	203,46	7,83	1,13
FFC-230-10-30	300	30,0	176,33	5,88	1,30
FFC-230-10-34	340	34,0	155,59	4,58	1,48
FFC-230-10-40	400	40,0	132,25	3,31	1,74
FFC-230-10-48	480	48,0	110,21	2,30	2,09

Snow melt rubber mat 120W / 300W - walkways & stairs

Specification
Rubber Mat is an ideal heater for stairs,
walkways & interance for snow & ice melting.
We can connect upto 14 Amp. of these mats to meet
customised requirement.
It melt 2" (5cm) of snow per hour.

Product code	WSMRM-01	WSMRM-02
Brand	WIPE HOTWIRE	WIPE HOTWIRE
Heater product type	Rubber mat	Rubber Mat
Colour	Black	Black
Construction Material (Heating)	Synthetic rubber	Synthetic rubber
Fitting Type	Floor Laid	Floor Laid
Fuel Type	Electricw	Electric
IP Rating	IPX7	IPX7
Overload Protection	Yes	Yes
Power Indicator	Yes	Yes
Power Output (Watts)	120 W	300 W
Power Voltage Supply	230 V	230 V
Product Height	9 mm	9 mm
Product Length x Width	250 x 935 mm	600 x 1000 mm

Indoor and Outdoor Heating Cables

Undertile Heating Cable (Uncoupling Membrane Friendly)	In-Slab Heating Cable	Snow Melting Cable	In Asphalt / Snow Melting Cable	Frost Free Cable
				

Indoor Floor Radiant Heating

Areas	Type of Construction	Product Type
Basements, Bathroom, Bedrooms, Kitchen, Living Rooms, Sun room	New Construction Under - Tile, Marble, Stone, Concrete, Laminate	Membrane Friendly
		Strip Friendly
		DIY
	Retrofit Under - Tile, Marble, Stone, Concrete, Laminate	2.5 mm Thick
		DIY
	New and Retrofit - Under Hardwood (Nailed and Floating), Carpet	Al Foil
		Dry Floor (magnum way)

Type of Joints	Protection Rating	Splice surface	Cable laying on Floor
1. Normal	IPX7	Surface diameter of splice approx. 2x of cable dia.	Need to dig cavity on the floor to seat splice
2. IVC	IPX68	Uniform surface & diameter being as heating cable	No need of cavity for flat surface
3. Moulded	IPX67	Uniform surface but diameter being double of heating cable	Need to dig cavity on the floor to seat splice

Insulation	Rated Temp.	Compressive strength	Attributions
1. XLPE	90°C	Good	High Temperature Resilience
2. ETFE	150°C	Excellent	Moisture, Chemicals, Fire proof
3. PTFE	260°C	Fair	Moisture, Chemicals, Fire proof
4. FEP	200°C	Fair	Moisture, Chemicals, Fire proof
5. PFA	260°C	Fair	Moisture, Chemicals, Fire proof

Type of Cable	Material & Size
1. Series Cables	Different conductor material is used for different Wattage
2. Constant Wattage	Same material for each linear W/m
3. Self Regulating	Same semi-conductor compound used for each W/m

Outdoor Heating

Areas	Application	Product Type
Parkings, Walkways, Patios, Ramps	Snow melting	In-Concrete Cable
Driveways		In-Asphalt Cable
Steps		Rubber Mats
Roof	De-Icing	Constant Wattage / Self Regulating
Gutter		Constant Wattage / Self Regulating
Pipe Trace		Constant Wattage / Self Regulating / Heating Cable

REG.-Nr. 40043865

FM 559856

Corporate Social Responsibility

Responsibility Towards Education Government School, Neemrana

- Infrastructure support
- School uniform, note book & stationary items
- Class room furniture
- IT support
- Setting of innovation labs

Responsibility Towards Health

- Cataract eye operation camps
- Regular health check-ups
- Medical insurance for all employees

Responsibility Towards Environment

- Tree plantation
- Rain water harvesting
- Promote non-usage of one-time-use plastics

WIPE hotwire strengths

Special wire & cable design and conductor making facility for special applications

Fully integrated harness making facility (ability to offer alternate materials for diverse applications)

Flexible manufacturing – Custom Design/Fabrication Machines

Two manufacturing units to ensure uninterrupted supplies

Consistency in achieving & exceeding the targeted 85% in customer satisfaction Index for past 5 years

History of consistent growth in exports for past 15 years

WIPE hotwire
The trusted manufacturing partner

Notes

WIPE hotwire
The trusted manufacturing partner

E-3, EPIP, Neemrana,
Alwar – 301705
Rajasthan, India

+91 8003144488
aditya@wipehotwire.com
www.wipehotwire.com