



JIAHONG

MINERAL

Insulated cable

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**Address: No.86 Guandoumen Road, Jiujiang Economic
Development Zone, China (Anhui) Pilot Free Trade Zone
Wuhu Zone**



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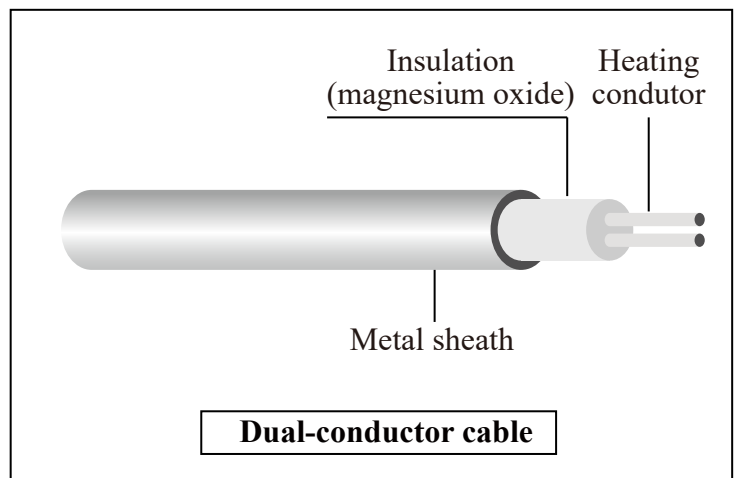
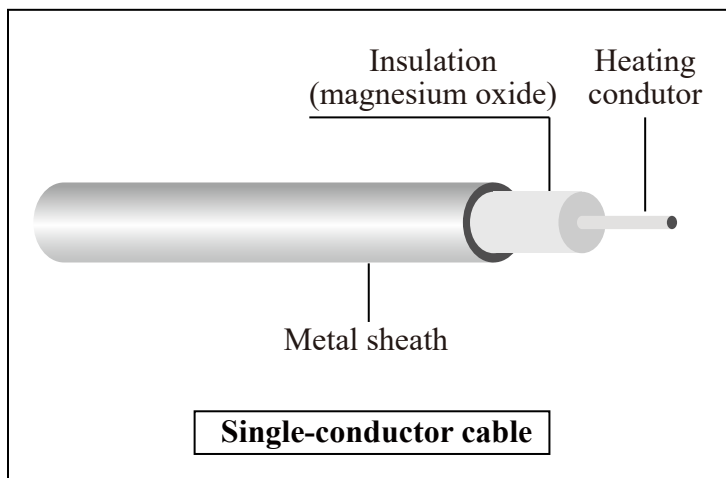
General description

Mineral insulated (MI) heat tracing cables provide freeze protection and process temperature maintenance on pipes /vessels in industrial plant & Facility area and facility buildings, Also, it can be used under conditions, such as high exposure temperature or steam purging environments. These applications need the cable to withstand high exposure temperature and provide high power output. So, the MI heating cable is the best choice of all. In another way, material and structure of MI heating cable show better characteristics under environmental conditions requiring anti-corrosion and explosion-proof.



Cable Structure

MI heating cables usually have three layers: the inner layer is metal heating conductor, generally copper, copper-nickel alloy, or chrome-nickel alloy; the middle layer is insulation layer which is mainly composed of magnesium oxide; the layer is sheath of metal material, such as copper, copper-nickel alloys, stainless steel, alloy materials, etc.



Application and performance characteristics

Oil refining industry: Hydrocracking (reaction temperature up to 450°C)

Coking: flue gas desulfurization and denitrification (design temperature up to 800°C)

Bitumen: The production and transportation temperature needs to be controlled between 150°C and 200°C

Chemical and petrochemical: resins (melting temperature close to 50°C)

Environmental protection industry: ash hopper (the outer wall temperature should be controlled from 130°C-150°C)

Power plant: molten salt in CSP application (The temperature not lower than 290°C)

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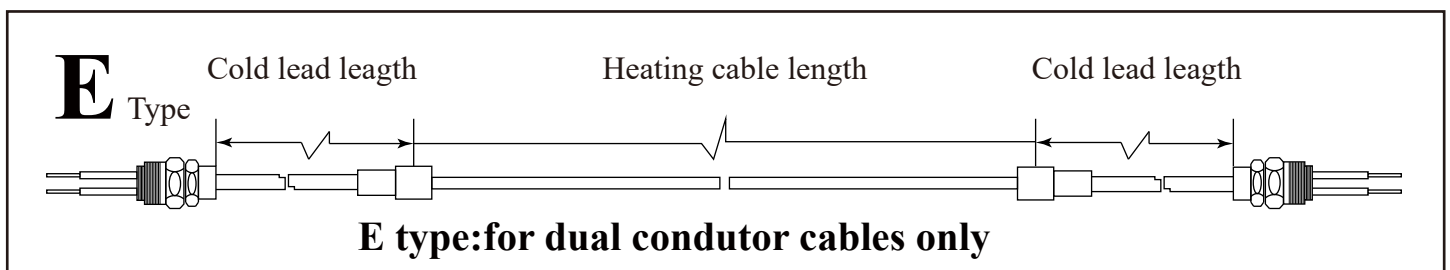
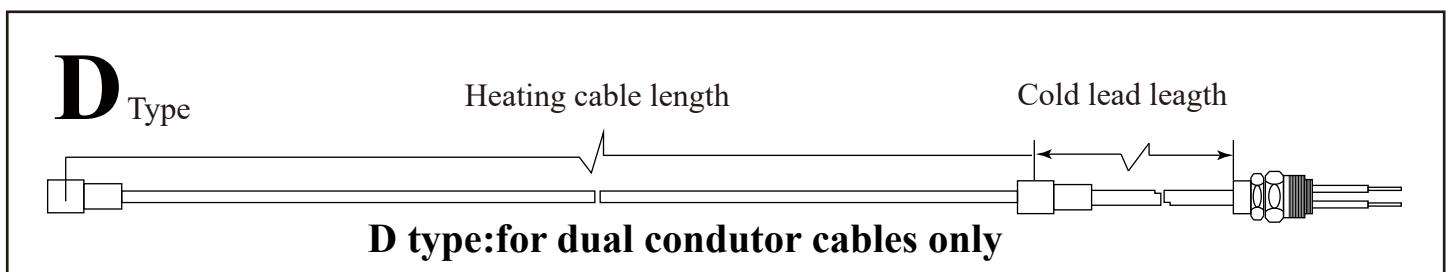
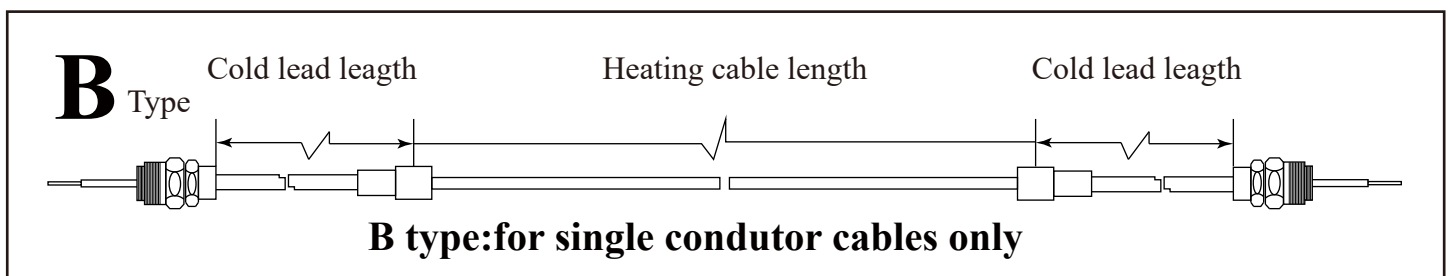
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Products	MI heating cable	Normal fluoropolymer outer jacket electric heating cable
Operating temperature	up to 850°C	<260°C
Mechanical Strength	high	medium
Power output	high	medium
Corrosion ability	high	general
UV resistance	high	general
installation requirements	high	general
maintain temperature	high	< 200°C

MI heating cable structure

Regular type: B Type ;D Type ;E Type (three types)



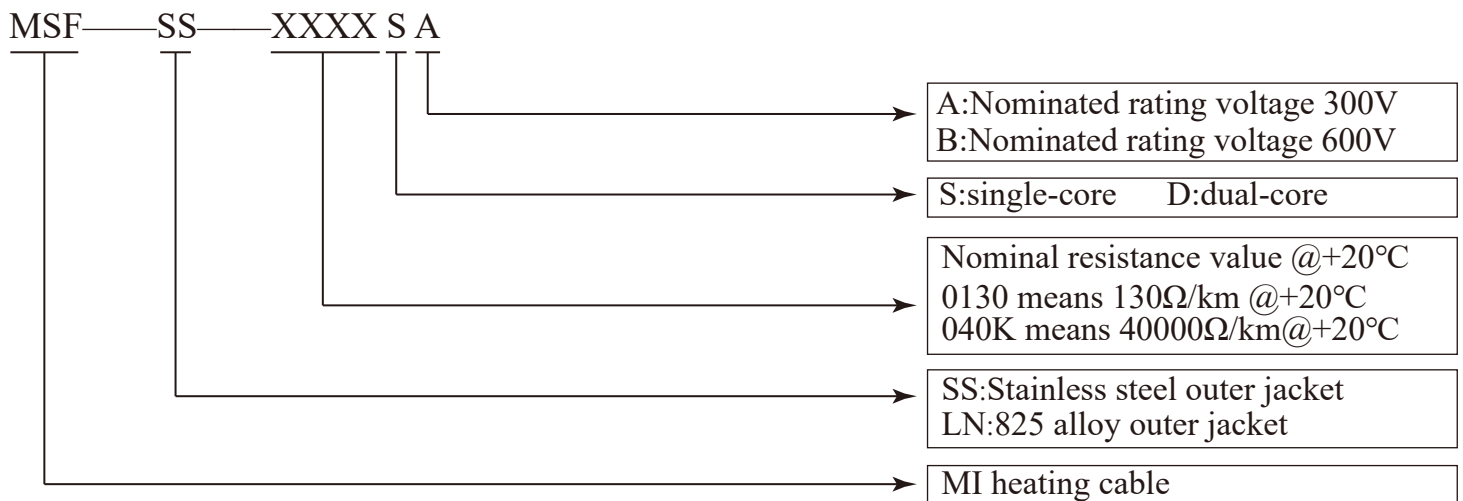
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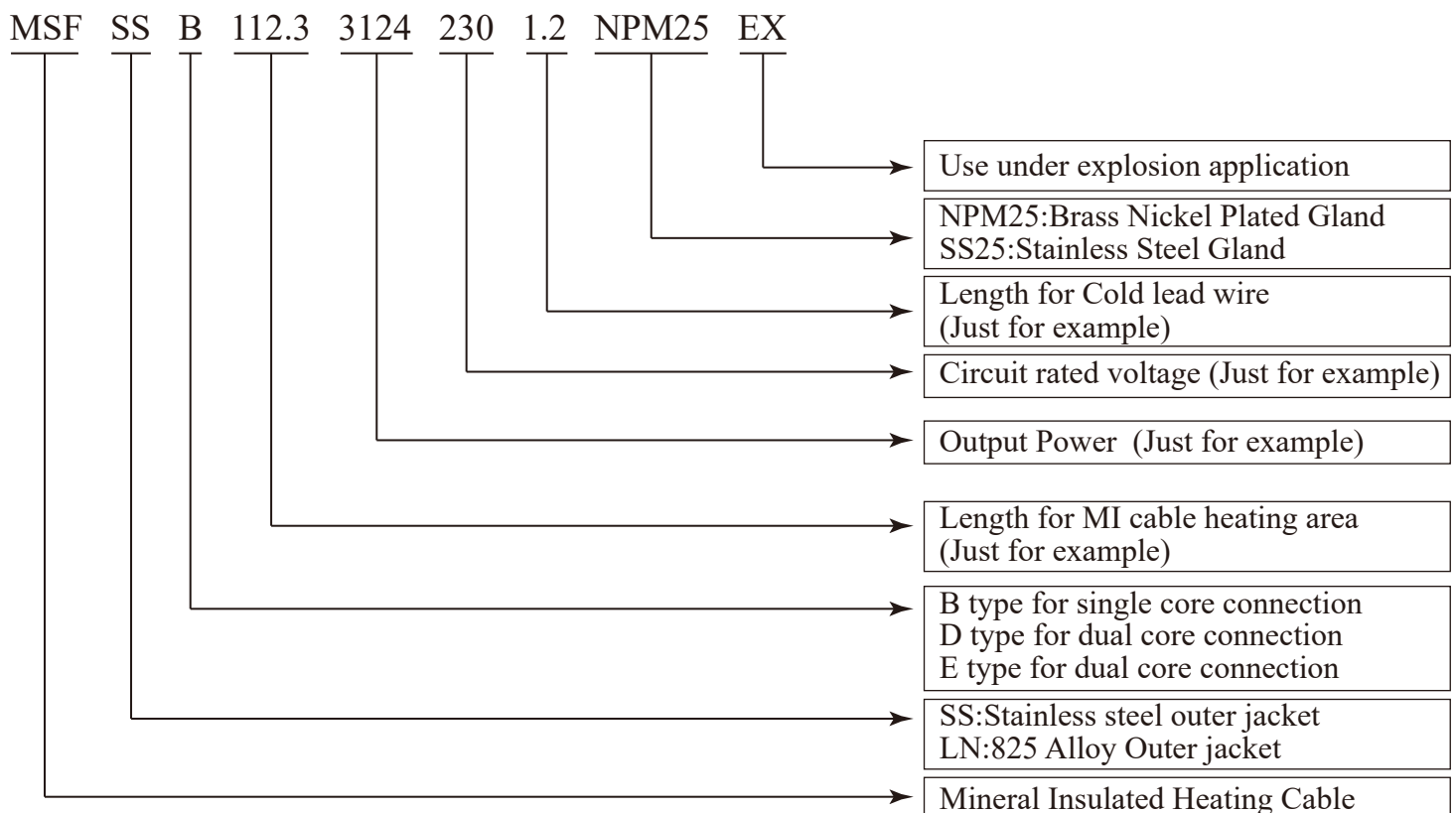
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MI Heating Cable Specifications



MI heating cable Specifications (Customized Specifications)





MSF-SS Stainless Steel Mineral Insulated Heating cable

Stainless steel mineral Insulated heating cable can meet the heating needs of the high exposure temperature (up to 600 °C) and power output (up to 269w/m). The conductor resistance range from 2.1Ω/km to 36,100Ω/km @+20°C. The stainless steel mineral heating cable has good mechanical strength, anti-corrosion ability and long service life.



MSF-SS heating cable specifications (600V single core)

Cable Ref	Diameter mm	Resistance Ω/m @20°C	Max.length m	Nominal weight kg/km
02P1SB	6.8	0.0021	130	184.2
03P4SB	5.9	0.0034	170	138.7
05P3SB	5.3	0.0053	210	111.9
08P5SB	4.8	0.0085	150	91.8
0013SB	4.3	0.013	190	73.7
0021SB	4.0	0.021	220	63.8
0040SB	5.8	0.04	180	164.7
0050SB	5.4	0.05	210	140.1
0060SB	5.2	0.06	220	126.7
0080SB	4.8	0.08	200	106.8
0100SB	4.7	0.1	160	100.0
0120SB	4.5	0.12	170	90.2
0160SB	6.5	0.16	150	77.7
0200SB	5.9	0.2	180	110.0
0250SB	5.3	0.25	220	92.1
0400SB	4.7	0.4	280	74.0
0500SB	4.5	0.5	300	66.2
0630SB	4.3	0.63	200	94.1
1000SB	3.9	1.0	230	91.3
1600SB	3.6	1.6	270	88.2
2500SB	3.4	2.5	300	69.8
2800SB	3.4	2.8	300	76.0
3300SB	3.4	3.3	300	68.9
4000SB	3.2	4.0	350	68.5
5200SB	3.2	5.2	350	68.2
6300SB	3.2	6.3	350	55.5
010KSB	3.2	10	350	41.7

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**MSF-SS heating cable specifications (600V dual core)**

Cable Ref	Diameter mm	Resistance Ω/m @20°C	Max.length m	Nominal weight kg/km
08P4DB	9.8	0.0084	60	636.1
13P4DB	8.7	0.0134	80	433.7
0021DB	7.9	0.021	95	340.7
0034DB	7.3	0.034	110	275.2
0054DB	6.3	0.054	150	213.6
0085DB	5.6	0.085	190	171.2
0130DB	5.3	0.13	215	148.6
0180DB	7.9	0.18	96	273.3
0260DB	7.4	0.26	110	235.4
0360DB	6.8	0.36	130	196.6
0500DB	6.4	0.5	147	172.1
0650DB	5.9	0.65	173	145.6
1000DB	5.7	1.0	185	134.1
1300DB	6.2	1.3	156	161.5
2000DB	5.8	2.0	179	139.8
3300DB	5.4	3.3	206	119.5
4600DB	5.8	4.6	179	139.0
8000DB	5.4	8.0	206	119.2
013KDB	5.0	13.0	241	101.3
027KDB	4.8	27.0	261	92.6
040KDB	4.6	40.0	284	84.9
060KDB	4.4	60.0	311	77.5
072KDB	4.2	72.0	341	70.6

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**MSF-SS heating cable specifications (300V dual core)**

Cable Ref	Diameter mm	Resistance Ω/m @20°C	Max.length m	Nominal weight kg/km
0210DA	5.4	0.21	210	118.5
0300DA	5.0	0.3	240	99.4
0400DA	4.8	0.4	261	97.7
0480DA	4.8	0.48	261	96.5
0650DA	4.6	0.65	284	87.8
1000DA	4.1	1.0	358	69.3
1300DA	3.8	1.3	417	59.3
2000DA	5.0	2.0	241	105.3
2400DA	4.8	2.4	261	96.2
3000DA	4.6	3.0	284	87.8
4600DA	4.8	4.6	261	96.8
7500DA	4.6	7.5	284	87.4
11P2KDA	4.4	11.2	311	79.2
014KDA	4.2	14.0	341	72.0
018KDA	3.8	18.0	420	52.9
026KDA	3.6	26.0	464	52.5
040KDA	3.4	40.0	520	46.6
050KDA	3.6	50.0	470	64.2
060KDA	3.6	60.0	464	52.0
072KDA	3.4	72.0	520	46.4

Prevent corrosion Instruction

Substance	MSF-SS
Sulphuric Acid	Not recommended
Hydrochloric Acid	Not recommended
Hydrochloric Acid	Not recommended
Phosphoric Acid	Not recommended
Nitric Acid	Check for specific data
Organic Acid	Sutable unber most conditions
Alkalis	Acceptable
Sea Water	Not recommended
Chloride	Not recommended

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MSF - LN 825 Alloy Mineral Insulated Heating Cable

825 Alloy Outer jacket MI Cable can meet the heating needs of the high exposure temperature (up to 800 °C) and power output (up to 269w/m). Conductor resistance range from 2.1Ω/km to 36,100Ω/km @20°C. The 825 Alloy Outer jacket MI Cable has good mechanical strength, anti-corrosion ability and long service life.



MSF-LN heating cable specifications (600V single core)

Cable Ref	Diameter mm	Resistance Ω/m @20°C	Max.length m	Nominal weight kg/km
02P1SB	6.8	0.0021	130	184.2
03P4SB	5.9	0.0034	170	138.7
05P3SB	5.3	0.0053	210	111.9
08P5SB	4.8	0.0085	150	91.8
0013SB	4.3	0.013	190	73.7
0021SB	4.0	0.021	220	63.8
0040SB	5.8	0.04	180	164.7
0050SB	5.4	0.05	210	140.1
0060SB	5.2	0.06	220	126.7
0080SB	4.8	0.08	200	106.8
0100SB	4.7	0.1	160	100.0
0120SB	4.5	0.12	170	90.2
0160SB	6.5	0.16	150	77.7
0200SB	5.9	0.2	180	110.0
0250SB	5.3	0.25	220	92.1
0400SB	4.7	0.4	280	74.0
0500SB	4.5	0.5	300	66.2
0630SB	4.3	0.63	200	94.1
1000SB	3.9	1.0	230	91.3
1600SB	3.6	1.6	270	88.2
2500SB	3.4	2.5	300	69.8
2800SB	3.4	2.8	300	76.0
3300SB	3.4	3.3	300	68.9
4000SB	3.2	4.0	350	68.5
5200SB	3.2	5.2	350	68.2
6300SB	3.2	6.3	350	55.5
010KSB	3.2	10	350	41.7

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**MSF-LN heating Cable specifications (600V dual core)**

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08P4DB	9.8	0.0084	60	636.1
13P4DB	8.7	0.0134	80	433.7
0021DB	7.9	0.021	95	340.7
0034DB	7.3	0.034	110	275.2
0054DB	6.3	0.054	150	213.6
0085DB	5.6	0.085	190	171.2
0130DB	5.3	0.13	215	148.6
0180DB	7.9	0.18	96	273.3
0260DB	7.4	0.26	110	235.4
0360DB	6.8	0.36	130	196.6
0500DB	6.4	0.5	147	172.1
0650DB	5.9	0.65	173	145.6
1000DB	5.7	1.0	185	134.1
1300DB	6.2	1.3	156	161.5
2000DB	5.8	2.0	179	139.8
3300DB	5.4	3.3	206	119.5
4600DB	5.8	4.6	179	139.0
8000DB	5.4	8.0	206	119.2
013KD	5.0	13.0	241	101.3
027KDB	4.8	27.0	261	92.6
040KDB	4.6	40.0	284	84.9
060KDB	4.4	60.0	311	77.5
072KDB	4.2	72.0	341	70.6

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0650DA	4.6	0.65	284	87.8
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4600DA	4.8	4.6	261	96.8
7500DA	4.6	7.5	284	87.4
11P2KDA	4.4	11.2	311	79.2
014KDA	4.2	14.0	341	72.0
018KDA	3.8	18.0	420	52.9
026KDA	3.6	26.0	464	52.5
040KDA	3.4	40.0	520	46.6
050KDA	3.6	50.0	470	64.2
060KDA	3.6	60.0	464	52.0
072KDA	3.4	72.0	520	46.4

Prevent corrosion Instruction

Substance	MSF-LN
Hydrochloric Acid	Good-Excellent
Hydrochloric Acid	Good-Excellent
Phosphoric Acid	Good-Excellent
Nitric Acid	Good-Excellent
Organic Acid	Good-Excellent
Alkalis	Good-Excellent
Sea Water	Good-Excellent
Chloride	Good-Excellent

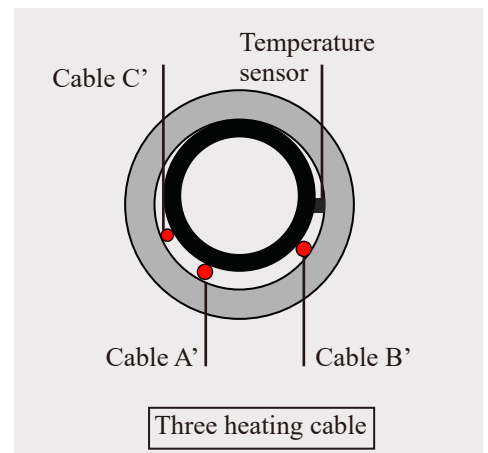
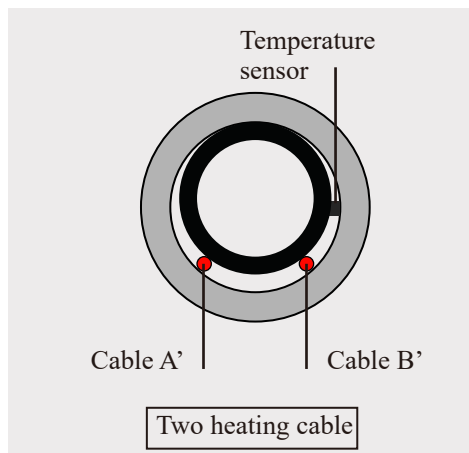
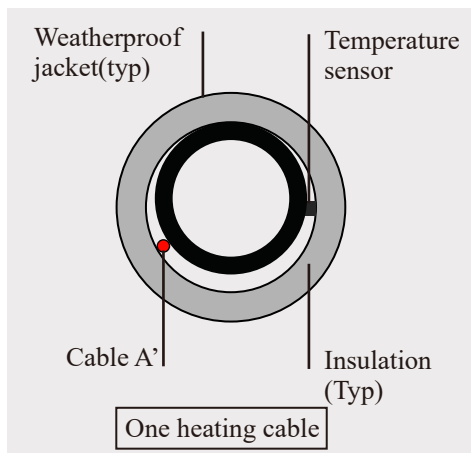
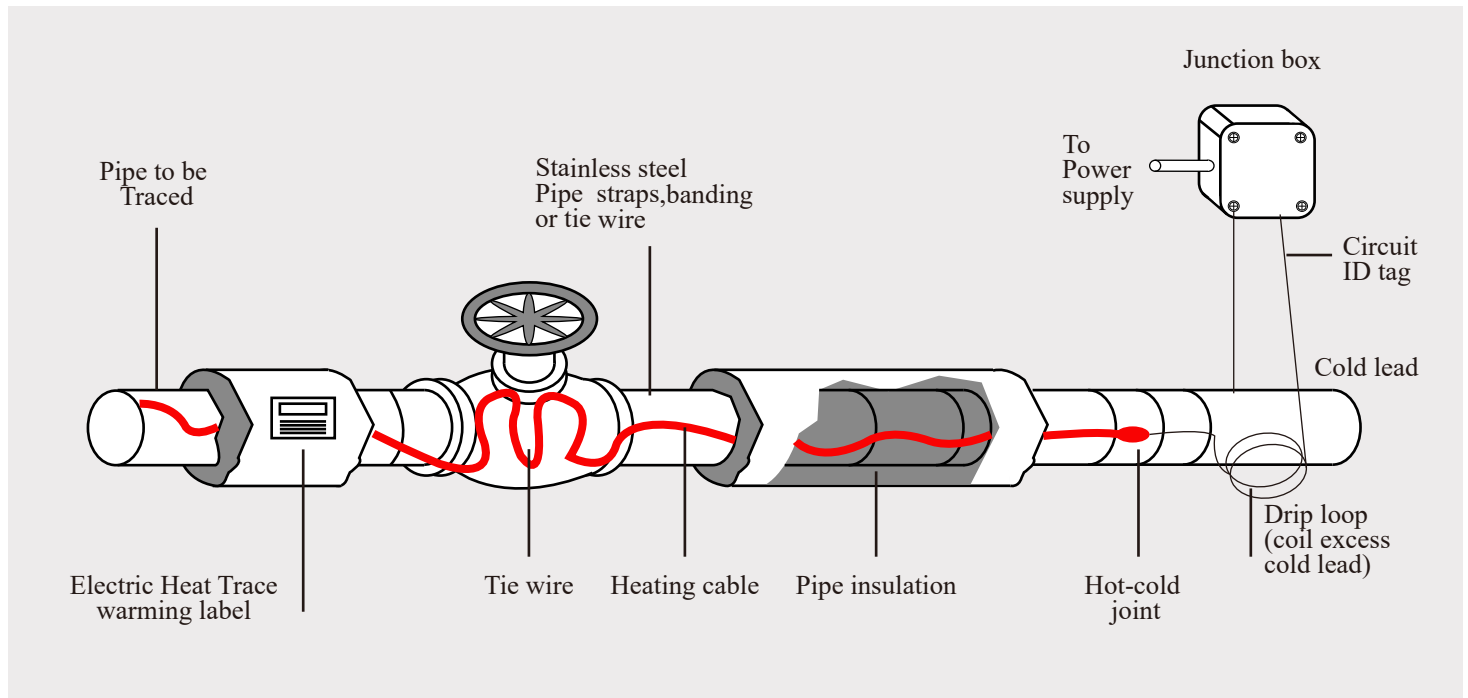
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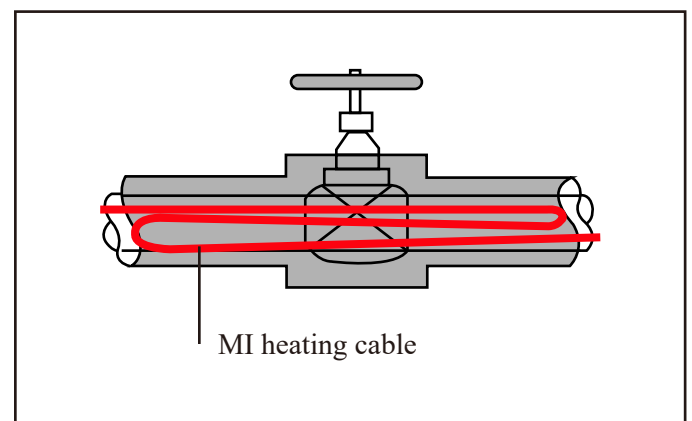
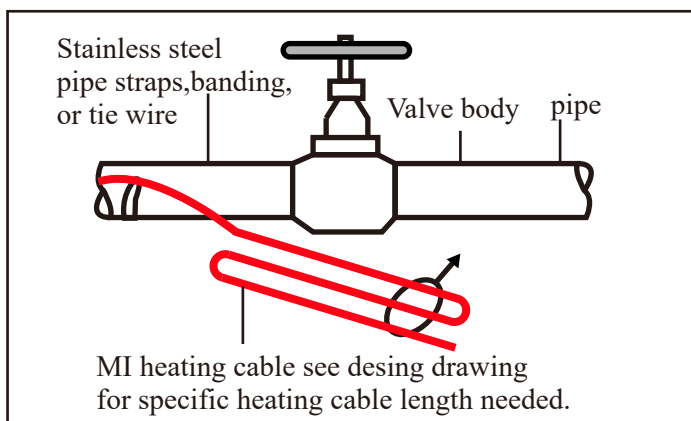
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Typical installation of mineral insulated heating cable



For valve sizes 3-1/2”(90mm) or smaller



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For valve sizes larger 3-1/2”(90mm) or smaller

