

Parallel constant wattage heating cable

Parallel constant wattage heating cable can be used for pipe and equipment freeze protection and process temperature maintenance requiring high power output or high temperature exposure. This type provide an economical alternative to self regulating heating cable but requires more skill for installation and more advanced control and monitor system. Constant wattage heating cables can provide process temperature maintenance up to 150°C and can withstand exposure temperature up to 205°C with power on.

Working principle

Two paralleled stranded copper wire as the bus wires with insulation layer FEP, then wrap the nickel-chromium alloy as the heating wire connect with bus wires at regular intervals, form the parallel resistance, finally covered with insulation jacket FEP. When the bus wires power on, each parallel resistance begin to heat, thus form a continuous heating cable.



Structure



RDP2 Single phase constant wattage heating cable used to freeze protection, heat preservation for all kinds of pipelines and instruments. Application such as factory Zone 1, Zone 2 explosive gas atmosphere area.

1. Tinned copper stranded wire
2. FEP insulation layer
3. FEP insulation layer
4. Ni-Cr alloy wire
5. PEP insulation layer
6. Tinned copper Metal braid
7. FEP outer sheath



Product specification and technical features

Part Number		Rated power (W/m)	Max Usage length(m)	Max maintenance temperature(°C)	sheath color
Common model	Strengthen model				
RDP2HR-J3-10	RDP2HR(Q)-J3-10	10	210	150°C	black
RDP2HR-J3-20	RDP2HR(Q)-J3-20	20	180	120°C	red
RDP2HR-J3-30	RDP2HR(Q)-J3-30	30	150	90°C	blue
RDP2HR-J3-40	RDP2HR(Q)-J3-40	40	140	65°C	orange

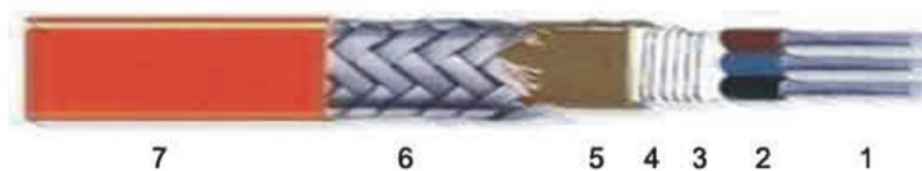
Rated voltage: 220V
 Normality insulation resistance: $\geq 20M$ ohm
 Dielectric strength: 2000V 50Hz/1min
 Insulation material: FEP
 Approvals:  

Max exposure temperature: 205°C
 Protection level: IP54
 Size: 6.3×9.5mm

RDP3 Three phase constant wattage heating cable

Three phase constant wattage heating cable adopt three phase triangle power supply, has the characteristics of single phase constant power heating cable. Special used for long distance and large diameter pipeline's heat tracing and preservation. Application such as factory Zone 1, Zone 2 explosive gas mixture T3 area.

Structure



1. Tinned copper stranded wire
2. FEP insulation layer
3. FEP insulation layer
4. Ni-Cr alloy wire
5. PEP insulation layer
6. Metal braid
7. FEP outer sheath



Working principle

Three paralleled stranded copper wire as the bus wires with insulation layer FEP, then wrap the nickel-chromium alloy as the heating wire connect with bus wires at regular intervals, repeated cycle connection (like: AB-BC-CA-AB) form the parallel resistance between two phase, finally covered with insulation jacket FEP. When the bus wires power on three phase, each parallel resistance begin to heat, thus form a continuous heating cable.



Product specification and technical features

Part Number		Rated power (W/m)	Max Usage length(m)	Max maintenance temperature(°C)	sheath color
Common model	Strengthen model				
RDP3HR-J3-30	RDP3HR(Q)-J3-30	30	330	120°C	blue
RDP3HR-J3-40	RDP3HR(Q)-J3-40	40	280	110°C	orange
RDP3HR-J3-50	RDP3HR(Q)-J3-50	50	275	80°C	red
RDP3HR-J3-60	RDP3HR(Q)-J3-60	60	250	60°C	black

Rated voltage: 380V
 Normality insulation resistance: $\geq 20M$ ohm
 Dielectric strength: 2500V 50Hz/1min
 Insulation material: FEP
 Approvals:  

Max exposure temperature: 205°C
 Protection level: IP54
 Size: 6.3×12mm