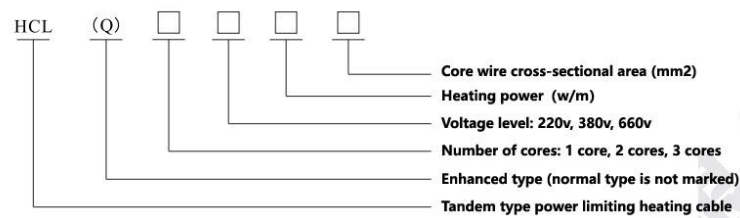


HCL Series Structure Power Limiting Heating Cable is a new type of electric heating product. Compared with other electric heating cables, its major feature is its long use length. It is better than general constant power and self-limiting temperature electric heating cables. The larger use length is 5~12 times longer. Therefore, it is especially suitable for antifreeze, heat preservation and heat tracing of long-distance pipelines, large tanks, oil tanks, etc. in the petroleum, chemical, electric power, wharf and other industries. When matched with other explosion-proof accessories, it can be used in Class II explosion-proof gas occasions.

HCL Series Structure Power Limiting Heating Cable number



HCL Series Structure Power Limiting Heating Cable structure

A typ:2 core



B type:3 core



HCL Series Structure Power Limiting Heating Cable working principle

According to Joule's law, the current energized conductor continuously releases energy to form a continuous and uniform heating cable.

Model	Conductor structure	Nominal area (mm ²)	Resistance at 20°C (MΩ/km)
HCL(Q) _{1,2,3} -J ₁ -1.5	1 9x0.32/Φ1.60	1.5	12.70
HCL(Q) _{1,2,3} -J ₁ -2.0	1 9x0.37/Φ1.85	2.0	9.50
HCL(Q) _{1,2,3} -J ₁ -2.5	1 9x0.42/Φ2.10	2.5	7.43
HCL(Q) _{1,2,3} -J ₁ -3.0	1 9x0.42/Φ2.25	3.0	6.53
HCL(Q) _{1,2,3} -J ₁ -4.5	1 9x0.42/Φ2.60	4.5	4.88

HCL Series Structure Power Limiting Heating Cable structure type:

Type A structure is composed of three independent electric heating cables with the same power and the same length;

Type B structure consists of three electric heating cables that are insulated and arranged side by side;

The insulating sheath and outer insulating sheath of HCL series electric tracing cable are both F46 or F4. The heating core is a special heating device, and the heating core is reinforced with copper braided outer sheath and inner insulating sheath.

HCL Series Structure Power Limiting Heating Cable Installation Notes

- (1) The ground should not be dragged when discharging the heating cable;
- (2) When the electric tracing cable is installed with sharp edges, the sharp corners must be polished or lined with aluminum tape to prevent the insulation layer from being scratched;
- (3) When the electric tracing cable is bent and installed, its smaller bending radius should not be less than five times its thickness;
- (4) When installing the electric tracing cable, use aluminum tape to paste it, one is to increase the heat dissipation surface, which is beneficial to heat conduction, and the other is to install it. After laying, fix it radially with fixing tape every 50-80cm;
- (5) Tandem electric heating cables are generally designed according to the actual length of the pipeline. Therefore, they should be installed strictly according to the designed length during installation. Too long or too short will affect the power, so arbitrary cutting is not allowed;
- (6) When installing a series electric heating cable, connect it according to Y. In order to avoid three-phase current error, the end must be grounded;
- (7) The electric heating cable control cabinet should have overload, short circuit, leakage protection and temperature control devices to ensure the quality of use;
- (8) The reinforced type should be used when the electric tracing cable is buried in the

ground or has corrosive gas around it.