

# STS HV Skin-Effect Tracing Wire



nVent RAYCHEM STS-HV tracing wire is made specifically for medium temperature STS Trace Heating applications and is ideal for long pipeline applications where access to power connection and power source locations are limited. STS-HV tracing wire allows circuit lengths up to 50 km (31 miles) between power connection points and is approved for use in hazardous and non-hazardous locations. Suitable for applications up to a maximum 302 °F/150 °C and approved for use in hazardous and non-hazardous locations, the Silicone outer jacket is ideal for heating pipelines transporting materials such as crude oil and VGO.

## FEATURES

Custom engineered design, depending on the unique application type

Safe and efficient in operation: fully grounded system with zero electrical potential on pipe surfaces, can be used in Class 1 Division 2 and Zone 2 hazardous areas

Long circuit lengths (up to 31 miles/50 km), minimize operating and installation costs by reducing the required number of power supply points

Advanced control systems with multiple temperature inputs to adequately monitor and control longline heat tracing

Reliable during long life: entire circuit is encapsulated within rugged heat tubes and steel boxes

## SPECIFICATIONS

Table 1/2

| Catalog Number | Item Name                | Supply Voltage | Max Power Output | Max Maintain or Continuous Exposure Temperature, Power On | Outer Jacket Material | Ground Path Type |
|----------------|--------------------------|----------------|------------------|-----------------------------------------------------------|-----------------------|------------------|
| 1244-022564    | STS-HV/21.100-WIRE #4AWG | 0 – 10000 V    | 70 W/m           | 150 °C                                                    | Silicone              | None             |

Table 2/2

| Catalog Number | Item Name                | Area Classification      | Min Installation Temperature | Nominal Cable Weight | Min Bending Radius @ -55°C | AWG Size |
|----------------|--------------------------|--------------------------|------------------------------|----------------------|----------------------------|----------|
| 1244-022564    | STS-HV/21.100-WIRE #4AWG | Non-Hazardous, Hazardous | -55 °C                       | 482 g/m              | 51 mm                      | #4       |

## **WARNING**

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nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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