

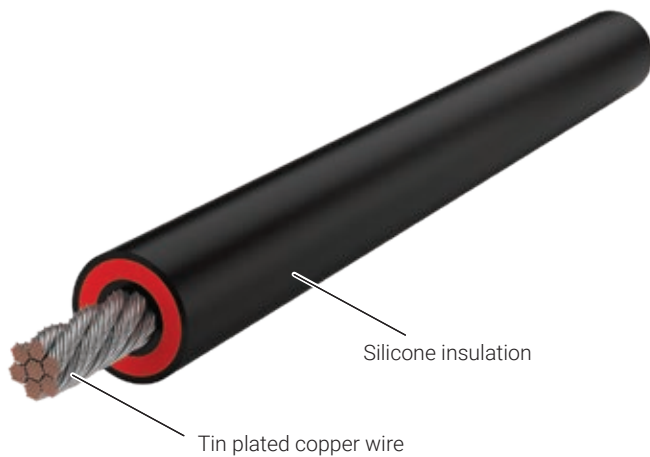
# STS-HV Skin Effect Trace Heating System Wire

CONNECT AND PROTECT

## Electrical Freeze Protection and Process Temperature Maintenance For Long Pipelines

### PRODUCT OVERVIEW

#### Skin-effect Insulated Conductor Construction



nVent RAYCHEM STS-HV tracing wire is made specifically for medium temperature STS Trace Heating applications.

This STS Wire is approved for use in hazardous and non-hazardous locations when used as part of an nVent designed STS Trace Heating System.

nVent's STS Trace Heating Systems are ideal for long pipeline applications where access to power connection and power source locations are limited. Our STS-HV tracing wire allows circuit lengths up to 50 km (31 miles) between power connection points.

nVent RAYCHEM STS-HV wire meets the requirements of the U.S. National Electrical Code and the Canadian Electrical Code, when properly installed and commissioned in an STS Trace Heating System designed by nVent. For additional information, contact your local nVent office.

### APPLICATION

Area Classification	Hazardous and non-hazardous locations
Traced surface type	Metal

### PERFORMANCE RATINGS

Voltage Rating (maximum)	10000 VAC
Operating Temperature (maximum)	150°C (302°F)
Power Output Rating (maximum)	70 W/m (21.34 W/ft)

### APPROVALS

PTB 21 ATEX 1005 X	IECEX PTB 21.0011X
Ex II 2 G db eb IIC T6...T3 Gb	Ex db eb sb IIC T6...T3 Gb

## DESIGN AND INSTALLATION

STS-HV wire is an integral part of a complete, engineered nVent RAYCHEM STS Trace Heating System. These systems are custom designed and engineered based on the specific needs of the application. nVent requires that all STS Trace Heating System designs be completed and approved by nVent engineers. nVent Field Service personnel are also recommended for installation and commissioning of STS Trace Heating Systems.

## PRODUCT CHARACTERISTICS

Design Elements	Dimensions (Max OD)	Weight Per km (3280 FT)	Bend Radius (@-55C)	Conductor Size
STS-HV/21.100 Wire	18.5 mm (0.73 in.)	482 kg (1,062 lb.)	110 mm (4.3 in.)	21 mm <sup>2</sup> (#4 AWG)
Maximum Pull Force	90 kgs (200 lbs)			
Outer Jacket Color	Black			

Description	Part Number
STS-HV/21.100 wire	1244-022564

## STS SYSTEM COMPONENTS

nVent offers a full range of connection kits for power connections and splices for STS-HV wire. These connection kits must be used to ensure proper functioning of the product and compliance with warranty, code, and approvals requirements.

Additional components, installation tools and accessories required to install, test and commission an STS Trace Heating System are available from nVent.

### North America

Tel +1.800.545.6258  
Fax +1.800.527.5703  
thermal.info@nVent.com

### Europe, Middle East, Africa

Tel +32.16.213.502  
Fax +32.16.213.604  
thermal.info@nVent.com

### Asia Pacific

Tel +86.21.2412.1688  
Fax +86.21.5426.3167  
cn.thermal.info@nVent.com

### Latin America

Tel +1.713.868.4800  
Fax +1.713.868.2333  
thermal.info@nVent.com



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