

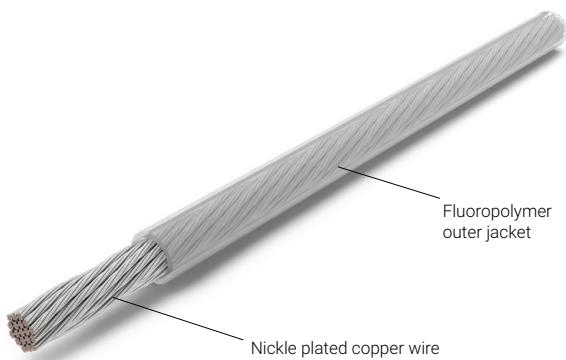
# STS-HT SKIN EFFECT TRACE HEATING SYSTEM WIRE



**RAYCHEM**

## ELECTRICAL PROCESS TEMPERATURE MAINTENANCE FOR HIGH TEMPERATURE PIPELINES AND EMBEDDED APPLICATIONS

### Skin-effect Insulated Conductor Construction



### PRODUCT OVERVIEW

nVent RAYCHEM STS-HT Tracing Wire is a specially formulated, chemical resistant wire made specifically for high temperature STS Trace Heating applications up to 250°C. STS Systems using STS-HT Wire are ideal for heating pipelines transporting materials such as sulfur and asphalt.

These STS Wires meet all requirements of internationally recognized standard IEEE 844 at 2,500 VAC and are approved for use in hazardous and non-hazardous locations when used as part of a nVent designed STS Trace Heating System.

RAYCHEM STS Trace Heating Systems are ideal for embedded or long pipeline applications to minimize the number of connection and power source locations. Circuit lengths up to 25 km (15 miles) are possible.

RAYCHEM STS-HT Wires meet the requirements of the U.S. National Electrical Code, the Canadian Electrical Code, ATEX, and Russian standards when properly installed and commissioned in a 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 and Concrete
Chemical resistance	Organic and aqueous inorganic chemicals and corrosives

### PERFORMANCE RATINGS

Voltage Rating	2,500 Vac maximum
Maximum Operating Temperature	250°C (482°F)
Power Output Rating (maximum)	150 W/m (45.7 W/ft)

### APPROVALS



FM STS-0D5A3-AX  
CL 1, Div 2, Grps. B, C, D  
CL 1, ZN 2, Grp. IIB+H2



BAS98ATEX2383X-STX  
Ex II 2 G, Ex e II T



TC RU C-BE.ME92.B.00067  
2 Ex e s IIT2/T3 (T5) Ge X

## DESIGN AND INSTALLATION

STS-HT Wires are an integral part of a complete, engineered 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

	Dimensions (Max OD)	Weight Per 3m (10FT)	Bend Radius (@-40C)	Conductor Size
STS-HT/33.25 Wire	13.2 mm (0.52 in.)	1.5 kg (3.3 lb.)	84 mm (3.3 in.)	33 mm <sup>2</sup> (#2AWG)
STS-HT/21.25 Wire	11.2 mm (0.44 in.)	1.0 kg (2.2 lb.)	77 mm (3.0 in.)	21 mm <sup>2</sup> (#4AWG)
STS-HT/13.25 Wire	9.9 mm (0.39 in.)	0.7 kg (1.6 lb.)	60 mm (2.4 in.)	13 mm <sup>2</sup> (#6AWG)
Maximum Pull Force	90 Kgs (200 Lbs)			
Outer Jacket Color	Clear			

## ORDERING DETAILS

Description	Part number
STS-HT/33.25 Wire	P000001474
STS-HT/21.25 Wire	P000000635
STS-HT/13.25 Wire	P000001475

## STS SYSTEM COMPONENTS

nVent offers a full range of connection kits for power connections and splices for STS Wires. 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.

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