

STS-HT Skin-effect Trace Heating System Wire



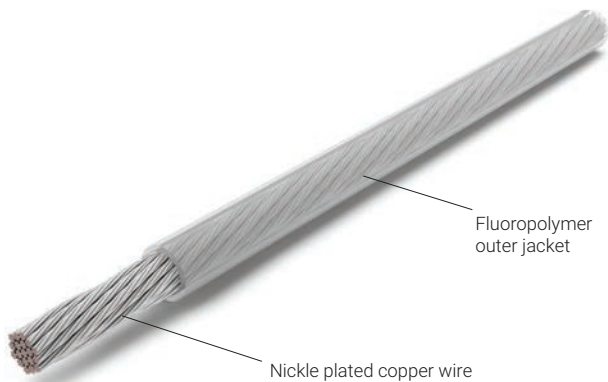
RAYCHEM

CONNECT AND PROTECT

Electrical process temperature maintenance for high temperature pipelines and embedded applications

PRODUCT OVERVIEW

Skin-effect Insulated Conductor Construction



nVent RAYCHEM STS-HT Tracing Wire is a specially formulated, chemical resistant wire made specifically for high temperature STS Trace Heating applications up to 260°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 844.1/CSA C22.2 No. 293.1 and IEEE 844.2/CSA C22.2 No. 293.1 at 2,400 Vac and are approved for use in hazardous and nonhazardous locations when used as part of a nVent designed STS Trace Heating System.

nVent 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 12 km (7 miles) are possible.

nVent RAYCHEM STS-HT Wires meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code, 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 nonhazardous locations
Traced surface type	Metal and Concrete
Chemical resistance	Organic and aqueous inorganic chemicals and corrosives

PERFORMANCE RATINGS

Voltage Rating	2,400 Vac maximum
Maximum Operating Temperature	260°C (500°F)
Power Output Rating (maximum)	150 W/m (45.7 W/ft)

APPROVALS

PTB 21 ATEX 1005 X	IECEx PTB 21.0011X
Ex II 2 G Ex eb 60079-30-1 IIC T6...T2 Gb	Ex eb sb IIC T6...T2 Gb
Ex II 2 D Ex tb IIIC T80°C...T300°C Db	Ex tb sb IIIC T80°C...T300°C Db

DESIGN AND INSTALLATION

STS-HT Wires are an integral part of a complete, engineered nVent RAYCHEM STS Skin-effect 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 km (3280 ft)	Bend Radius (@-55C)	Conductor Size
STS-HT/33.25 Wire	13.2 mm (0.52 in)	500 kg (1102 lb)	84 mm (3.3 in)	33 mm ² (#2AWG)
STS-HT/21.25 Wire	11.2 mm (0.44 in)	333 kg (734 lb)	77 mm (3.0 in)	21 mm ² (#4AWG)
STS-HT/13.25 Wire	9.9 mm (0.39 in)	233 kg (514 lb)	60 mm (2.4 in)	13 mm ² (#6AWG)

Maximum Pull Force	90 kg (200 lb)
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 Skin-effect Trace Heating System are available from nVent.

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