

STS-MT Skin-effect Trace Heating System Wire

Raychem

Electrical freeze protection and process temperature maintenance for pipelines and embedded applications

PRODUCT OVERVIEW

Skin-effect Insulated Conductor Construction



Raychem STS-MT Tracing Wire is a specially formulated, chemical resistant wire made specifically for medium temperature STS Skin-effect Tracing System applications.

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 5,000 Vac and are approved for use in hazardous and non-hazardous locations when used as part of a Chemelex designed STS Trace Heating System.

Raychem STS Skin-effect Tracing 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-MT Wires meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code, when properly installed and commissioned in a STS Skin-effect Tracing System designed by Chemelex. For additional information, contact your local Chemelex 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	5,000 Vac maximum
Maximum Operating Temperature	150°C (302°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...T3 Gb
Ex II 2 D Ex tb IIIC T80°C...T300°C Db	Ex tb sb IIIC T80°C...T200°C Db

DESIGN AND INSTALLATION

STS-MT Wires are an integral part of a complete, engineered Raychem STS Skin-effect Tracing System. These systems are custom designed and engineered based on the specific needs of the application. Chemelex requires that all STS Skin-effect Tracing System designs be completed and approved by Chemelex engineers. Chemelex Field Service personnel are also recommended for installation and commissioning of STS Skin-effect Tracing System.

PRODUCT CHARACTERISTICS

	Dimensions (Max OD)	Weight Per km (3280 ft)	Bend Radius (@-55C)	Conductor Size
STS-MT/33.50 Wire	14.0 mm (0.55 in)	433 kg (955 lb)	81 mm (3.2 in)	33 mm ² (#2AWG)
STS-MT/21.50 Wire	12.7 mm (0.50 in)	300 kg (661 lb)	72 mm (2.8 in)	21 mm ² (#4AWG)
STS-MT/13.50 Wire	11.4 mm (0.45 in)	200 kg (441 lb)	65 mm (2.6 in)	13 mm ² (#6AWG)

Maximum Pull Force	90 kg (200 lb)
Outer Jacket Color	Black

ORDERING DETAILS

Description	Part number
STS-MT/33.50 Wire	A42886-000
STS-MT/21.50 Wire	F93310-000
STS-MT/13.50 Wire	F74409-000

STS SYSTEM COMPONENTS

Chemelex 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 Chemelex.

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