

Electrical heating cables for downhole production tube heating applications on vertical wells with unpressurized annulus

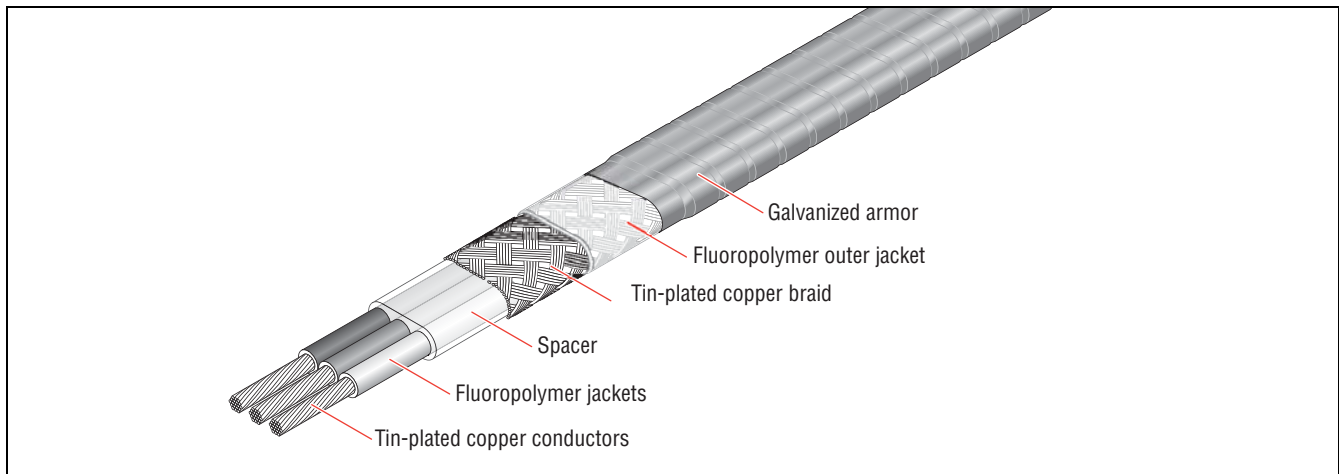
PetroTrace™ brand DHSX™ heating cables provide solutions for downhole production tube heating up to 122°F (50°C).

DHSX heating cables are used where a thermal solution is required to heat the production tube sufficiently to control hydrate formation, paraffin deposition and low flow conditions due to high viscosity.

The PetroTrace DHSX heating cable is supplied as an engineered system consisting of a three-phase preterminated armored heating cable, power distribution panel and transformer. A flexible, overlapped, galvanized steel armor provides resistance to mechanical damage and resistance to environmental corrosives.

Standard DHSX heating cables are supplied in lengths up to 1000 meters (3280 ft), and provide up to 41 W/m (12.5 W/ft) of power output.

For additional information, contact Tyco Thermal Controls.



Specifications

Voltage	Up to 600 Vac 3 phase 3 wire (depending on length and required wattage)
Maximum tubing temperature	Up to 50°C (122°F)
Maximum wattage	41 W/m (12.5 W/ft)
Length	Up to 1000 meters (3280 ft)
Spacer	Fluoropolymer
Armor	Overlapped galvanized steel
Outer jacket	Fluoropolymer
Part number	C12944

Design and Installation

Tyco Thermal Controls must review all DHSX System designs. To ensure proper product performance, DHSX System installation must be in accordance with the PetroTrace DHSX System Installation Manual (H58304). Literature is available online via the Tyco Thermal Controls website.

Ground-Fault Protection

Tyco Thermal Controls and national electrical codes require ground-fault protection of equipment and a grounded metallic covering on all heating cables. The DigiTrace® HTPI and HTPG distribution panels meet this requirement.

Product Characteristics

Minimum bend radius	3.5 in @ 20°C (68°F)
Weight	2.8 lb per 10 ft. nominal
Bus wire size	3.3 mm ² (12 AWG)
Heating cable dimensions	19 mm x 9.7 mm (.74 in x .38 in)

Components

These components must be used to ensure proper functioning of the product and compliance with warranty.

Description	Catalog number	Part number
Power connection kit	PETRO-SX-COMP-1	P000000125
Steel channels with bending slot	DHH-CHANNEL-CW	090896
Cable bands	DHH-STRP-0.75X.015-085205	817877
Coupling guards	DHH-COUPLING-GUARD-CHNL	D23569
End shoe	DHH-END-SHOE-CW	E23249

An electrical penetrator assembly with associated power connection kit is also required. Contact Tyco Thermal Controls for more information.

Tyco, DHSX, DigiTrace and PetroTrace are trademarks of Tyco Thermal Controls LLC or its affiliates.

Worldwide Headquarters**Tyco Thermal Controls**

307 Constitution Drive
Menlo Park, CA 94025-1164
USA

Tel (800) 545-6258

Fax (800) 527-5703

info@tycothermal.com

www.tycothermal.com

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Tyco Thermal Controls makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Thermal Controls' only obligations are those in the Tyco Thermal Controls Standard Terms and Conditions of Sale for this product, and in no case will Tyco Thermal Controls or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Tyco Thermal Controls reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.