



ENGLISH

Datasheet

Stock No: 256-244

RS Pro 15W/m Trace Heating Tape

Constant Wattage, Parallel Circuit, 240 V, 20m



Product Details

Silicone Insulated Parallel Circuit Heating Tape

Constant Wattage Trace Heating Tape

Specifications

Cable Type	Constant Wattage, Parallel Circuit
Output per Metre	15W
Voltage Rating	240 V
Minimum Operating Temperature	-60°C
Maximum Operating Temperature	+200°C
Operating Temperature Range	-60 → +200 °C
Length	20m
Sheath Material	Silicone Rubber

RS stock numbers

256-244, 665-7419, 665-7413, 703-3108, 703-3101, 703-3105, 379-744, 665-7422, 665-7425, 703-3114, 703-3117, 703-3111, 379-750, 665-7429, 665-7438, 703-3120, 703-3123, 703-3127.

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The RS Heater Cable is designed to be cut from reel lengths and site terminated to suit pipework. The heating tape consists of a number of short heating zones, each connected across a pair of continuous bus-wire conductors.

Features

- Cut to length
- Flexible
- Easy to terminate
- Constant Wattage per metre
- Suitable for internal and external Freeze protection and temperature maintenance, hot water lines, oil and chemical lines, sprinkler system mains and supply piping (as listed in Clause 1 BS EN 62395-1:2006).
- Manufactured to BS EN 62395-1:2006

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Das RS Heizkabel wurde entwickelt um zuschneidbar auf individuelle Rohrleitungslängen zu passen und entlang deren verlegt zu werden. Das Heizband besteht aus kurzen Heizzonen, angeschlossen an zwei kontinuierliche Bus-Draht-Leitungen.

Kenndaten

- Auf Länge zuschneidbar
- Flexibel
- Sehr einfache Konfektionierung.
- Konstanter Heizleistung
- Geeignet für internen und externen Frostschutz und Temperatursteuerung, Warmwasserleitungen, Öl- und Chemikalienleitungen, Sprinkleranlage (Klausel 1 BS EN 62395-1:2006).
- Hergestellt nach BS EN 62395-1:2006

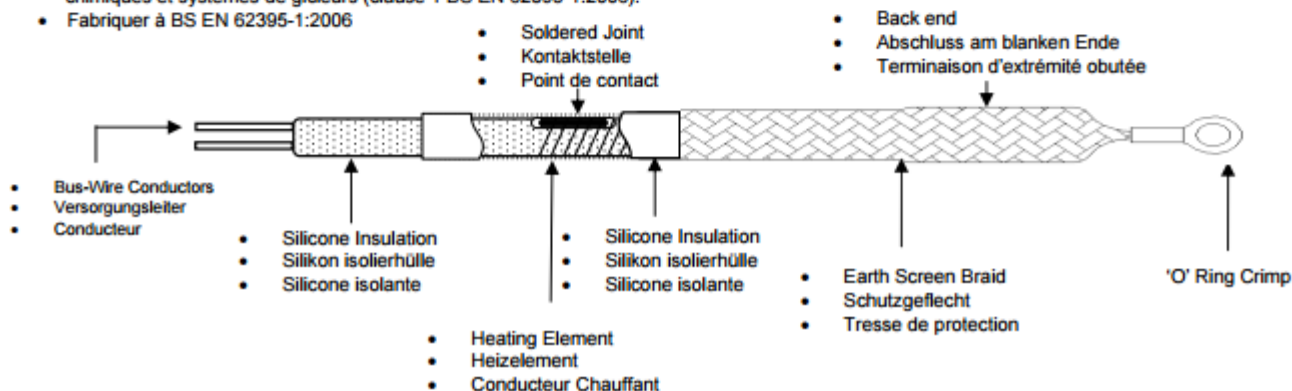
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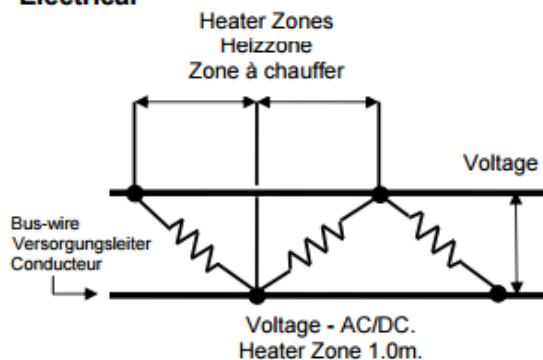
Le RS câble chauffants est conçu pour être coupé à partir de longueurs Bobine et site mis fin. Le ruban chauffant est constitué d'un certain nombre de zones de chauffage courtes, relié à travers des conducteurs parallèles.

Caractéristiques

- Se coupe à longueur sur chantier.
- Souple
- Terminaison extrêmement simple.
- Puissance en mètre constant
- Approprié pour protection contre le gel interne et externe et de maintien en température, tuyaux d'eau chaude, l'huile et les lignes chimiques et systèmes de gicleurs (clause 1 BS EN 62395-1:2006).
- Fabriquer à BS EN 62395-1:2006

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Area Classification	Bereichsklassifizierung	Classification de zone
Non Hazardous Area	Nicht-Ex-Bereich	atmosphères non explosibles
Conductors	Versorgungsleiter	Conducteur
(RS StockNumbers) 256-244, 665-7419, 665-7413, 703-3108, 703-3101, 703-3105	(RS StockNumbers) 256-244, 665-7419, 665-7413, 703-3108, 703-3101, 703-3105	(RS Référence produit) 256-244, 665-7419, 665-7413, 703-3108, 703-3101, 703-3105
32/0.2mm (1mm ²) Copper	32/0.2mm (1mm ²) Kupfer	32/0.2mm (1mm ²) Cuivre
(RS StockNumbers) 379-744, 665-7422, 665-7425, 703-3114, 703-3117, 703-3111, 379-750, 665-7429, 665-7438, 703-3120, 703-3123, 703-3127	(RS Produkt Nummer) 379-744, 665-7422, 665-7425, 703-3114, 703-3117, 703-3111, 379-750, 665-7429, 665-7438, 703-3120, 703-3123, 703-3127	(RS Référence produit) 379-744, 665-7422, 665-7425, 703-3114, 703-3117, 703-3111, 379-750, 665-7429, 665-7438, 703-3120, 703-3123, 703-3127
30/0.25mm (1.5mm ²) Copper	30/0.25mm (1.5mm ²) Kupfer	30/0.25mm (1.5mm ²) Cuivre
Heating Zone	Heizzone	Zone à chauffer
1m	1m	1m
Max exposure temperature continuous power off	Max. Einsatztemperatur, Dauerbetrieb, ausgeschaltet	Température d'exposition max. hors tension
200°C	200°C	200°C
Min exposure temperature continuous power off	Min. Einsatztemperatur, Dauerbetrieb, ausgeschaltet	Température d'exposition min. hors tension
-60°C	-60°C	-60°C
Maximum Circuit Length	Maximale Heizkreislänge	Longueur maxi du circuit chauffant
(RS StockNumbers) 256-244, 665-7419, 665-7413	(RS Produkt Nummer) 256-244, 665-7419, 665-7413	(RS Référence produit) 256-244, 665-7419, 665-7413
100m	100m	100m
(RS StockNumbers) 379-744, 665-7422, 665-7425	(RS Produkt Nummer) 379-744, 665-7422, 665-7425	(RS Référence produit) 379-744, 665-7422, 665-7425
120m	120m	120m
(RS StockNumbers) 379-750, 665-7429, 665-7438	(RS Produkt Nummer) 379-750, 665-7429, 665-7438	(RS Référence produit) 379-750, 665-7429, 665-7438
90m	90m	90m
(RS StockNumbers) 703-3108, 703-3101, 703-3105	(RS Produkt Nummer) 703-3108, 703-3101, 703-3105	(RS Référence produit) 703-3108, 703-3101, 703-3105
53m	53m	53m
(RS StockNumbers) 703-3114, 703-3117, 703-3111	(RS Produkt Nummer) 703-3114, 703-3117, 703-3111	(RS Référence produit) 703-3114, 703-3117, 703-3111
69m	69m	69m
(RS StockNumbers) 703-3120, 703-3123, 703-3127	(RS Produkt Nummer) 703-3120, 703-3123, 703-3127	(RS Référence produit) 703-3120, 703-3123, 703-3127
53m	53m	53m



Electrical


A 30mA trip Residual Current Circuit Device (RCCB) or Earth Leakage Circuit Breaker (ELCB) should be used with heating tapes.

Heat Loss (BS EN 62395-2:2008)

To calculate heat loss per metre of pipe:-

$$\text{Heat losses } W/m = \frac{2\pi k (T_p - T_a)}{\ln\left(\frac{D_2}{D_1}\right)}$$

where:-

k = Thermal Conductivity of insulation layer at its mean temperature

T_p = Maintain Temperature

T_a = Minimum Ambient temp

D_1 = Inside Diameter of the Insulation Layer

D_2 = Outside Diameter of the Insulation Layer

Thermal Conductivity (k) for Mineral/Glass Fibre

Mean Temperature °C	10	50	100	200
k	0.032	0.035	0.43	0.062

A Design Factor Allowance should be taken of:
Maximum heater resistance tolerance ($\pm 10\%$) and
Voltage variation ($\pm 6\%$)

$$= \frac{1.1}{(0.94)^2} = 1.25 \times \text{Heat Loss.}$$

A further design factor of 10% may be added.

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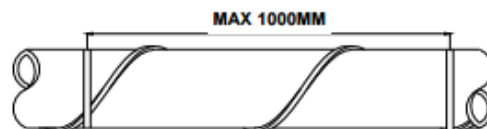
- Heating tape should be installed on clean, dry pipe free from burrs, weld splatter or any rough, sharp projections.
- Heating tape may be straight traced or spiralled along the pipe. If straight traced, the heating tape should be held in place with adhesive tape at 300mm intervals. For spiral tracing, fixing at 1m intervals is suitable.
- Use the correct adhesive tape suitable for the temperature application.
- A 30mA trip Residual Current Circuit Device (RCCB) or Earth Leakage Circuit Breaker (ELCB) is recommended for use with heating tapes.
- If in doubt about electrical installation consult a qualified electrician.
- Use mineral or glass fibre insulation and ensure that it is kept dry for maximum efficiency.
- Fit warning labels supplied on the outside of thermal insulation at approximately 3-meter intervals.
- For PVC, ABS, Polythene and other 'Plastic' pipes use heating tape not exceeding 12 watts per meter and having an earth screen covering. It is recommended that heating tape be covered in 50mm wide adhesive aluminium foil. An RCC or ELCB unit must be used in conjunction with this type of installation.
- It is recommended that all Heating tape should be installed in conjunction with a thermostatic controller.
- Heating cable should be terminated using a suitable RS termination kit.

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- Heizkabel kann geradlinig installiert werden oder spiralförmig entlang der Leitung.
- Bei geradliniger Installation entlang der Leitung sollte das Heizkabel in 300mm Abständen mit Klebeband befestigt werden. Bei spiralförmiger Verlegung sind Befestigungsabstände von 1m empfohlen.
- Das Befestigungsklebeband muss temperaturbeständig sein und entsprechend der Temperaturbelastung des ganzen Systems ausgewählt werden.
- Die Einbau einer Fehlerstrom-Schutzschalters vorgeschrieben (30 mA Auslösestrom). Bei häufig auftretenden Auslösungen des FI kann ein Fehlerstrom-Schutzschalter bis max. 300 mA Auslösestrom verwendet werden.
- Für die technische Beratung fragen Sie einen qualifizierten Elektriker.
- Verwenden Sie trockene Mineral-oder Glasfaser-Isolierung.
- Anwendung Warnhinweise auf der Außenseite der Wärmedämmung bei ca. 3-Meter-Abständen.
- Für PVC, ABS verwenden, Polythene und anderen Kunststoffrohren Heizleitung maximal 12 W / m und mit schutzgeflecht.
- Die Verwendung eines Thermostaten wird empfohlen
- Das Heizkabel sollte mit einem geeigneten RS Anschlussatz installiert werden.

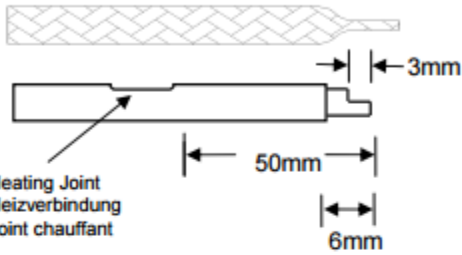
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- Ruban chauffant doit être installé sur des tuyaux propres et secs, sans aspérités.
- Ruban chauffant peuvent être droites ou en spirale tracée le long du tuyau. Si droite tracée, le ruban chauffant doit être maintenu en place avec du ruban adhésif à des intervalles de 300 mm. Pour spirale de traçage, la fixation à 1m intervalles convient.
- Utilisez le ruban adhésif approprié pour l'application de la température.
- Sur l'utilisation d'un disjoncteur 30 mA afin d'assurer une sécurité et une protection maximales.
- Pour assistance technique consulter un électricien qualifié.
- L'utilisation des minéraux ou d'isolant en fibre de verre et assurer qu'il est conservé au sec pour une efficacité maximale.
- Disposer des étiquettes de avertissement tout le long de la tuyauterie à intervalles d'environ 3 mètres
- Pour le PVC, ABS, polyéthylène et d'autres tuyaux en plastique à usage de chauffage maximale de bande de 12 W / m et un tresse de protection.
- L'utilisation d'un thermostat est recommandé.
- Le câble chauffant doit être delimité à l'aide d'un kit de terminaison appropriés RS.



- ①
- Back end
 - Abschluss am blanken Ende
 - Terminaison d'extrémité obtuse

- ②
- Pull Earth Braid Back
 - zurückziehen schutzgeflecht
 - Tirez la Tresse Retour

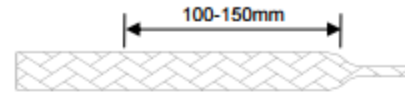


- ③
- Heating Joint
 - Heizverbindung
 - Joint chauffant

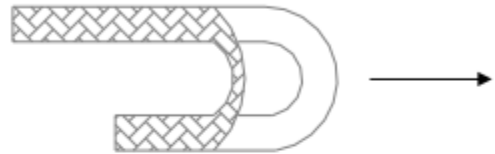
- ④
- Fill the back end with silicone adhesive and slide over the back end
 - Füllen Sie den Endabschluss mit Silicon-Klebstoff und schieben Sie diesen über das Kabel.
 - remplir le gaine avec de la colle silicone fin et glisser sur le câble

- ⑤
- Pull Earth Braid Back, Twist & fit 'O' Ring
 - Schieben schutzgeflecht. Verdrillen. Einbauen crimp
 - Pousser la Tresse Retour. Torsader t. Installer crimp

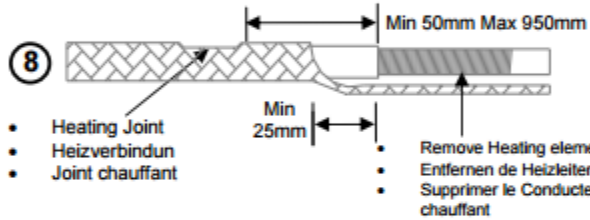
- ⑥
- Supply end
 - Stromversorgung Ende
 - Raccordement de puissance



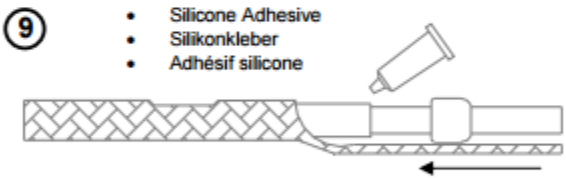
- ⑦
- Open the braid and pull the cable through
 - Geflecht aufweiten, Heizleitung hindurchziehen
 - Evaser la tresse, tirer à travers le câble chauffant



- ⑧
- Heating Joint
 - Heizverbindung
 - Joint chauffant
 - Remove Heating element
 - Entfernen de Heizleiter
 - Supprimer le Conducteur chauffant

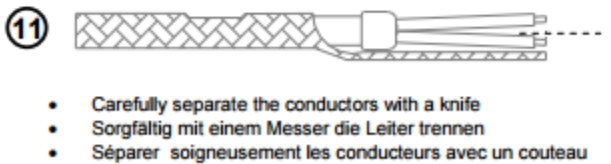


- ⑨
- Silicone Adhesive
 - Silikonkleber
 - Adhésif silicone



- ⑩
- Push on front seal
 - Auf den Endabschluss aufschieben
 - Pousser sur le joint

- ⑪
- Carefully separate the conductors with a knife
 - Sorgfältig mit einem Messer die Leiter trennen
 - Séparer soigneusement les conducteurs avec un couteau



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For Heating Cables/ Für Heizkabel/ Pour rubans chauffant:
256-244, 665-7419, 665-7413, 703-3108, 703-3101, 703-3105

- 3 X Back ends/ Abschluss am blanken Ende/ Terminaison d'extrémité obtmée
- 3 X Front ends/Kleiner Silikon Schlauch/ Petit tube en silicone
- 1 X Silicone Adhesive/Silikonkleber/Adhésif silicone
- 3 X Warning labels/Warnschilder/Panneaux d'avertissement
- 3 X 'O' Ring Crimp

665-7431

For Heating Cables/ Für Heizkabel/ Pour rubans chauffant:
379-744, 665-7422, 665-7425, 703-3114, 703-3117, 703-3111, 379-750,
665-7429, 665-7438, 703-3120, 703-3123, 703-3127

- 3 X Back ends/ Abschluss am blanken Ende/ Terminaison d'extrémité obtmée
- 3 X Front ends/Kleiner Silikon Schlauch/ Petit tube en silicone
- 1 X Silicone Adhesive/Silikonkleber/Adhésif silicone
- 3 X Cable Glands M20/Kabelverschraubung M20/Passe-câble M20
- 3 X Warning labels/Warnschilder/Panneaux d'avertissement
- 3 X 'O' Ring Crimp

- Intended use(s) Freeze protection and temperature maintenance, hot water lines, oil and chemical lines, sprinkler system mains and supply piping (as listed in Clause 1 BS EN 62395).
- Ground-fault equipment protection is required for each circuit
- De-energize all power circuits before installation or servicing
- Keep ends of trace heaters and kit components dry before and during installation
- Caution: Do not use in areas subject to high mechanical loads or impact, This heating tape is intended for use in applications with low risk of mechanical damage.
- The metal sheath, braid, screen or equivalent electrically conductive covering of the trace heater must be connected to an earth terminal
- The presence of the trace heaters shall be made evident by the posting of caution signs or markings at appropriate locations and/or at frequent intervals along the circuit.
- Heating tape should be installed on clean, dry pipe free from burrs, weld splatter or any rough, sharp projections.
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