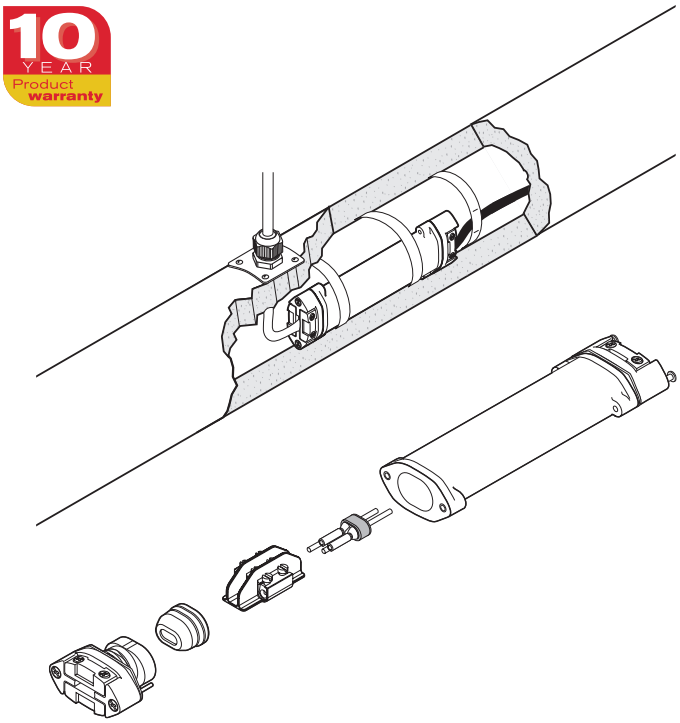
# C-150-E

CONNECT AND PROTECT

## Cold applied low profile power connection



The nVent RAYCHEM C-150-E is a cold applied low profile power connection. The kit enables in line connection of nVent RAYCHEM industrial heating cables, BTV, QTVR, XTV and KTV, to a flexible power cable. It can be used in applications with temperature ratings from –55°C to 200°C. It is approved for use in hazardous areas.

A nVent RAYCHEM supplied power cable such as C-150-PC may be used or any suitable standard industrial power cable type 3 x 1.5 $mm^2$ or 3 x 2.5 $mm^2$ with stranded copper conductors and an outer insulation jacket. The power cable is connected by means of screw terminals to the conductors and the braid of the heating cable.

C-150-E is used as connector:

- where connection to a junction box is difficult e.g. because of space limitation
- on instrument lines or loading arms
- where installation of “under insulation” components is preferred
- as a cost effective solution for short heat-tracing lines as an alternative for JBS-100.

### DESCRIPTION

Cold applied low profile splice for connection of BTV, QTVR, XTV and KTV heating cables to a power cable

### KIT CONTENTS

1 splice housing assembly including
  - 1 sealing grommet assembly for heater
  - 1 pressure plate/strain relief assembly

1 core sealer for heater
1 spacer including screw terminal
1 sealing grommet assembly for the power cable
1 pressure plate/strain relief assembly for the power cable
1 identification label
1 installation instruction

## APPROVALS

DEKRA 20ATEX0011U
Ⓔx II 2 G Ex eb IIC Gb
Ⓔx II 2 D Ex tb IIIC Db

IECEx DEK 20.0005U

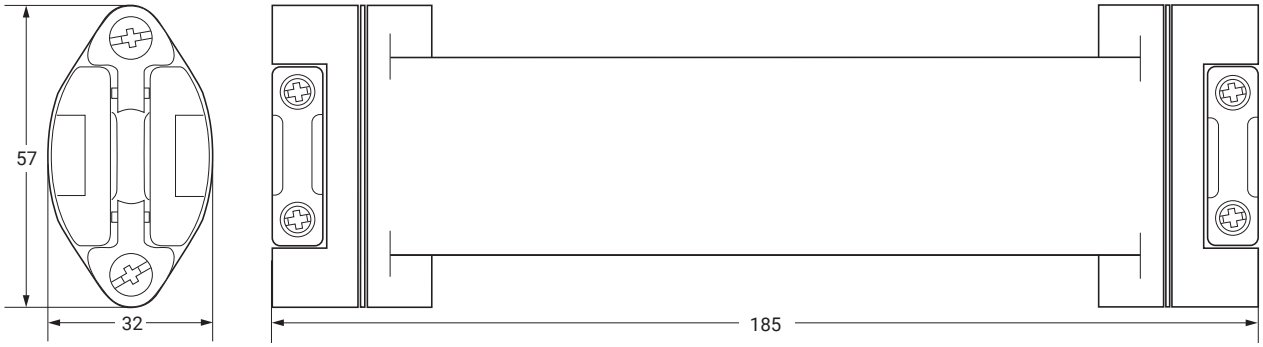
EAC Ex TC RU C-BE.МЮ62.B.00054/18
ООО «ТехИмпорт»
Ta : −55°C...+150°C Power ON IP66
Ta : −55°C...+200°C Power OFF
Ex e IIC Gb U
Ex tb IIIC Db U

CCC Ex e IIC Gb
Ex tD A21 IP66

DNV approval
When used with BTV, QTVR Heating system: DNV Certifcate number TAE00000TU
When used with XTV, KTV Heating systems: DNV Certifcate number TAE00000TV

SP Ex eb IIC T* Gb
Ex tb IIIC T* °C Db+

## DIMENSIONS (IN MM)




## PRODUCT SPECIFICATIONS

| | |
|---|---|
| Heating cable capability | BTV-CR, BTV-CT, QTVR-CT, XTV-CT, KTV-CT |
| Power cable capability | For use with nVent RAYCHEM's high temperature power cable C-150-PC or for use with other flexible cable such as: H07RN-F, Silicone insulated cables. Minimum and maximum installation and operating temperatures, given by cable manufacturer, have to be considered by designer and installer. |
| Power cable dimension | -> outer diameter range 7.8 mm - 12.5 mm<br>-> 3 stranded copper conductors (3 x 2.5 $mm^2$ or 3 x 1.5 $mm^2$)<br>-> temperature range depending on the application |
| Maximum power cable length | Depending on power cable voltage drop and maximum current for nVent RAYCHEM power cable C-150-PC (3 x 2.5 $mm^2$):<br>CB 16 A 40 m<br>CB 20 A 32 m<br>CB 25 A 25 m |
| Ingress protection | IP66 |
| Minimum installation temperature | −55°C |
| Maximum pipe temperature | refer to heating cable specification |
| Maximum operating voltage | 277 Vac |
| Maximum current rating | depending on the power cable used and maximum current |

## CONSTRUCTION MATERIALS

| | |
|---|---|
| Housing, end plate, shim and spacer | Engineering polymers, black |
| Sealing grommets | Silicone rubber |
| Screws, compression spring | Stainless steel |

## ORDERING DETAILS

| | |
|---|---|
| Part description | C-150-E |
| PN (Weight) | 073704-000 (0.4 kg/0.8 lb) |
| Pack size | 1 bag |

## ACCESSORIES

| | |
|---|---|
| Power cable | C-150-PC<br>3-core flexible power cable for connection to C-150-E,<br>3 x 2.5 $mm^2$, silicone insulation, temperature range: –40°C to +180°C,<br>short term: 215°C |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