

iSOLATE-CT

Explosion proof connector transit



- Save time and money
- Works with iSOLATE501 RF isolator
- Suitable for both surface and mining use
- ATEX / IECEx Zone 1 certified
- US & Canada Class I Div 1 / Zone 1 certified

The iSOLATE-CT was created to make wireless deployments in hazardous areas quicker and simpler. It works alongside the Extronics iSOLATE501 galvanic isolator, which makes RF outputs intrinsically safe, to enable easy installation and improve efficiency, helping you save time and money.

Quick, easy antenna installation

The iSOLATE-CT has an industry-standard, IP66 N type connector, eliminating the need to make off cable glands – saving time and money.

Reduced downtime

With intrinsically safe RF outputs thank to the iSOLATE501, you can simply live connect, disconnect, and hot swap the wireless antenna of your choice¹ for greater flexibility and reduced downtime.

No specialist tools required

Antennas and cables attach directly to the N type connector by hand, making installation simpler.

Use simple apparatus antennas

The iSOLATE501 technology makes RF outputs intrinsically safe, so there is no need for certified antennas. Simple apparatus antennas may be used, such as the Extronics iANT2xx range - assessed by our engineers as meeting the requirements for installation of non-electrical equipment in hazardous areas.

Small, compact form factor

Screws directly into the wall of any Ex d enclosure for maximum usability.

Rugged, durable design

With an extended temperature range and able to withstand extremely high pressure, the iSOLATE-CT is suitable for a wide variety of industrial locations.

¹ Please note it is the customer's responsibility to ensure the maximum values for RF Threshold power as per Table 4.0 of EN 60079-0: 2012 are not exceeded. The maximum RF output of the wireless transmitter and antenna gain must be taken into account when installing equipment.

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Specification

Certification

ATEX and IECEx:

⊕ II 2 GD Ex d IIC Gb, Ex tb IIIC Db

⊕ I M2 Ex d I Mb

MET US & Canada:

Class I, II, III Division 1 Groups A-G

Class I Zone I Ex d IIC Gb

Class I Zone 21 Ex tb IIIC Db

Construction material

Stainless Steel 316L

Weight

300g (10.6oz)

Dimensions

45 x 30 x 20 mm (1.77 x 1.18 x 0.79 in)

Temperature

Operating temperature -60°C to +150°C (-76°F to +302°F)

Humidity

Relative humidity 0 to 95%, non-condensing

Thread type

M20 or ¾" NPT

Input/output connections

Internal RF connection: SMA female

External RF connection: N-type female

Typical insertion loss

150 MHz	450 MHz	900 MHz	2.4 GHz	5 GHz
0.1 dB	0.22 dB	0.25 dB	0.5 dB	0.8 dB

Ordering Information:

Description

Explosion-proof N-type RF connector transit with M20 thread and N-female connector

Order code

ISOLATE-CT-01

Explosion-proof N-type RF connector transit with ¾" NPT thread and N-female connector

ISOLATE-CT-02

Accessories:

iSOLATE501 Ultra-wide band intrinsically safe RF galvanic isolator

ISOLATE501

iANT2xx range of simple apparatus antennas – see antenna datasheets for more information and specific order codes

IANT2xx

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