



iSOLATE -CT

Explosion-proof RF connector transit for use in hazardous areas

Works alongside the iSOLATE501 to make hazardous area wireless deployments quicker and simpler

ATEX and IECEX Zone 1, 21, 2, 22 and M2 mining certified

US & Canada Class I, II, III Division 1 / Class I Zone 1 and 21 certified

Use simple apparatus antennas for better choice and performance when used alongside iSOLATE501

Easy antenna installation with N type connector

Save time and money - no need to make off cable glands

Reduce downtime - with iSOLATE501 and CT, you can hot swap antennas

No specialist tools needed - simply attach by hand

Small, compact form factor; can be screwed directly into Ex d enclosure walls

Rugged IP66 design with extended temperature range

SPECIFICATION



Certification	II 2 GD Ex d IIC Gb, Ex tb IIIC Db I M2 Ex d I Mb cMETus Class I, II, III Division 1 Groups A-G Class I Zone I Ex d IIC Gb Class I Zone 2I Ex tb IIIC Db												
Dimensions	45 x 30 x 20 mm (1.77 x 1.18 x 0.79 in)												
Weight	300g (10.6oz)												
Ambient operating temperature	-60°C to +150°C (-76°F to +302°F)												
Humidity	0 to 95 %, non condensing												
Construction material	316L Stainless Steel												
Thread type	M20												
Input/output connections	Internal RF connection: SMA female External RF connection: N-type female												
Typical insertion loss	<table><thead><tr><th>Spot Frequency</th><th>Insertion Loss (dB)</th></tr></thead><tbody><tr><td>150 MHz</td><td>0.1 dB</td></tr><tr><td>450 MHz</td><td>0.22 dB</td></tr><tr><td>900 MHz</td><td>0.25 dB</td></tr><tr><td>2.4 GHz</td><td>0.5 dB</td></tr><tr><td>5 GHz</td><td>0.8 dB</td></tr></tbody></table>	Spot Frequency	Insertion Loss (dB)	150 MHz	0.1 dB	450 MHz	0.22 dB	900 MHz	0.25 dB	2.4 GHz	0.5 dB	5 GHz	0.8 dB
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ORDERING INFORMATION

ISOLATE-CT-01	Explosion-proof N-type RF connector transit with M20 thread and N-female connector
Accessories:	
ISOLATE501	iISOLATE501 Ultra-wide band Intrinsically Safe RF galvanic isolator
IANT2xx	Range of simple apparatus antennas - see separate datasheets