

**Australian/New Zealand
Certification Scheme for**

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEx Scheme

Certificate of Conformity

Certificate No.: ANZExR 08.4061X	Issue No.: 1	Date of Issue: 10 July 2009
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Certificate Holder: Becker Electronics (PTY) LTD
4 Clarke Street
North Alrode
South Africa



Electrical Apparatus: Becker Products comprising the Becker Radiating Leaky Cable System
Serial Numbers identified in the Schedule

Type of Protection: Ex ia I

Marking Code: Becker Electronics (Pty) LTD
Type: (Refer to Table 1)
Serial Number: (Refer to Table 1)
Ex ia I
ITACS ANZExR 08.4061X

Manufacturing Location(s): Becker Electronics (PTY) LTD
4 Clarke Street
North Alrode
South Africa

This certificate and schedule shall not be reproduced except in full

 <p>ABN 06 098 886 563</p>	<p>Certificate issued by</p> <p><i>ITACS Pty. Ltd.</i> <i>4-6 Second Street SA 5007 Australia</i> <i>PO Box 300 Hindmarsh SA 5007 Australia</i> <i>Phone: +61 8 8346 8680 Fax: +61 8 8346 7072</i> <i>Email: itacs@itacslab.com</i></p>	 <p>Accreditation by the Joint Accreditation System of Australia and New Zealand Acc No. Z2870404AA www.jas-anz.com.au/register</p>
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008**.*

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

AS/NZS 60079-0: 2000 + Amendment No 1	Electrical equipment for explosive gas atmospheres – Part 0: General requirements
AS/NZS 60079-11: 2000 + Amendment No 1	Electrical equipment for explosive gas atmospheres – Part 11: Intrinsic safety i

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

The equipment listed has successfully met the examination and test requirements as recorded in

Test Report No. and Issuing Body:	See Table 2 in this certificate
Quality Assessment Report No. and Issuing Body:	Not Applicable for Restricted Type Test Certificates

File Reference: ANZExR 08.4061-1



Signed for and on behalf of issuing body

Certification Authority

Position

10 July 2009

Date of Issue

This certificate and schedule shall not be reproduced except in full
This certificate is not transferable and remains the property of the issuing body
and must be returned in the event of it being revoked or not renewed.

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Schedule

EQUIPMENT:

This Certificate covers specific products, identified by serial number in Table 1 below, that altogether comprise one of each of the following systems:

- a) The Becker UHF Radiating Leaky Cable System, and
- b) The Becker VHF Radiating Leaky Cable System

These two Becker Radiating Leaky Cable Systems allow radio signals to be transmitted from a cable rather than an aerial and can provide two way radio services where conventional radio communications radiating from a central area are not practical. The systems comprise of non-hazardous area equipment, hazardous area equipment and interconnecting cable. The interconnections between the cells are to be made via the IS Cell Couplers that provide galvanic isolation between each cell, in accordance with the manufactures instructions and conditions listed in this Certificate pages 5 to 7.

Table 1 – List of Product items covered by this Certificate

ITEM	UHF		VHF	
	Model	Serial Number	Model	Serial Number
3 Way Splitter	Type U3SZ-100	B3B027336	Type V3SZ-100	B3B027626
4 Way Splitter	Type U4SZ-100	B3B027343	Type V4SZ-100	B3B027625
BDA	Type UESZ-211	B3B027339	Type VESZ-211	B3B027628
IS Barrier	Type UIBZ-100	B3B027346	Type VIBZ-100	B3B027629
IS Barrier with DC	Type UBDZ-100	B3B027337	Type VBDZ-100	B3B027627
Bidirectional PC	Type UBPZ-100	B3B027342	Type VBPZ-100	B3B027635
Cell Coupler	Type UCCZ-100	B3B027338	Type VCCZ-100	B3B027634
Cell Coupler with DC	Type UCDZ-100	B3B027344	Type VCDZ-100	B3B027633
End of Line	Type UTRZ-100	B3B027341	Type VTRZ-100	B3B027632
Splice Box	Type USIZ-100	B3B027345	Type VSIZ-100	B3B027631
Splice Box with DC	Type USDZ-100	B3B027340	Type VSDZ-100	B3B027630

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Table 2 – List of Test + Verification Reports and Component items			
Test Report Reference + (Issuing Certification Body)	Product	Models	Protection + Marking
TR 4926-1 (ITACS)	IS Barrier Type	Type UIBZ-100	[Ex ia] I
	IS Barrier Type	Type UBDZ-100	[Ex ia] I
	IS Barrier Type	Type VIBZ-100	[Ex ia] I
	IS Barrier Type	Type VBDZ-100	[Ex ia] I
TR 4047-2 (ITACS)	Digital Bi Directional Amplifier	Type UESZ-211	Ex ia I
	Digital Bi Directional Amplifier	Type VESZ-211	Ex ia I
TR 4047-3 (ITACS) Where x = U for UHF or V for VHF	3-Way Splitter	Type x3SZ-100	Ex ia I
	4-Way Splitter	Type x4SZ-100	Ex ia I
	IS Cell Coupler	Type xCCZ-100	Ex ia I
	IS Coupler with DC	Type xCDZ-100	Ex ia I
	Splice Box	Type xSIZ-100	Ex ia I
	Splice Box with DC	Type xSDZ-100	Ex ia I
	Bi Directional Power Coupler	Type xBPZ-100	Ex ia I
	Terminate	Type xTRZ-100	Ex ia I
08-228 (R1) (SAEx)	Verification of UHF and VHF Leaky Feeder components for compliance with manufacturing documentation	Refer to SAEx Report 08-228 (R1)	Refer to SAEx Report 08-228 (R1)

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DETAILS OF CHANGES:

This Issue 1 certificate REPLACES Issue 0 of this certificate and covers alternative input parameters; U_i capable to be reduced from 17V to 15V and I_i capable to be increased from 1.08 A to 2.0 A.

No other changes are covered by this certificate.

CONDITIONS OF CERTIFICATION:

General Condition: The Radiating Leaky Cable System shall be installed by a person(s) competent in the installation of Intrinsic Safety Systems as per Australian/New Zealand installation Standards and in accordance with the manufacturer's instructions and the following specific conditions.

Applicable to IS Barriers :

- Type UIBZ-100, Type UBDZ-100 and
- Type VIBZ-100, Type VBDZ-100

That the following parameters are to be taken into account in the installation.

IS Barrier with DC Type UIBZ-100 Type VIBZ-100 Type UBDZ-100 & Type VBDZ-100 Safe Area Connections	OR	IS Barrier Type UIBZ-100 Type VIBZ-100 Type UBDZ-100 & Type VBDZ-100 Hazardous Area Connections	Type UIBZ-100 Type VIBZ-100 Type UBDZ-100 & Type VBDZ-100 Hazardous Area Connections		
U_m DC=	32	V†	$U_i =$	17	V
U_m AC=	707	mV†	$I_i =$	1.08	A
			$U_o =$	707	mV
			$I_o =$	14.14	mA
			$P_o =$	10	mW
			$C_i =$	22	nF
			$L_i =$	11	µH
			$U_i =$	15	V
			$I_i =$	2.0	A
			$U_o =$	707	mV
			$I_o =$	14.14	mA
			$P_o =$	10	mW
			$C_i =$	22	nF
			$L_i =$	11	µH

†The barrier must be powered from a source having a minimum source impedance of 50 Ω and a maximum frequency of 500MHz

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CONDITIONS CONTINUED

Applicable to Digital Bi Directional Amplifier

- Type UESZ-211 and
- Type VESZ-211

The following output parameters are to be taken into account in the installation:

$U_i =$	17	V
$I_i =$	1.08	A
$P_i =$	12.75	W
$C_i =$	116.6	nF
$L_i =$	88.55	μ H

$U_o =$	17	V
$I_o =$	1.08	A
$P_o =$	12.75	W

OR

$U_i =$	15	V
$I_i =$	2.0	A
$P_i =$	As power supply	W
$C_i =$	116.6	nF
$L_i =$	10.5	μ H

$U_o =$	15	V
$I_o =$	2.0	A
$P_o =$	As input	W
$C_o =$	See note	
$L_o =$	See note	

Note

The power supply connected to the input terminals can be considered as been directly connected to the output terminals.

However, the L_i of the Bi Directional Amplifier can be considered as being independent of the inductance at the output due to internal safety components.

Applicable to 3-Way Splitter, 4-Way Splitter, IS Cell Couplers, Splice Boxes, Bi-Directional Power Coupler and Terminates

The following output parameters are to be taken into account in the installation

3-Way Splitter Type x3SZ-100		
$U_i =$	17	V

4-Way Splitter Type x4SZ-100		
$U_i =$	17	V

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$I_i =$	1.08	A
$C_i =$	81	nF
$L_i =$	31.6	μ H

$I_i =$	1.08	A
$C_i =$	122	nF
$L_i =$	42.2	μ H

IS Cell Coupler Type xCCZ-100		
$U_i =$	17	V
$U_o =$	0	V
$I_i =$	1.08	A
$C_i =$	22	nF
$L_i =$	Negligible	μ H

IS Coupler with DC Type xCDZ-100		
$U_i =$	17	V
$U_o =$	0	V
$I_i =$	1.08	mA
$C_i =$	22	μ F
$L_i =$	11	μ H

Splice Box Type xSIZ-100		
$U_i =$	17	V
$I_i =$	1.08	A
$U_o =$	17	V
$I_o =$	1.08	A
$C_i =$	Negligible	
$L_i =$	Negligible	

Splice Box with DC Type xSDZ-100		
$U_i =$	17	V
$I_i =$	1.08	A
$C_i =$	10.1	nF
$L_i =$	21	μ H

Bi Directional Power Coupler Type xBPZ-100		
$U_i =$	17	V
$I_i =$	1.08	A
$U_o =$	17	V
$I_o =$	1.08	A
$C_i =$	100.1	nF
$L_i =$	21	μ H

Terminate Type xTRZ-100		
$U_i =$	17	V
$I_i =$	1.08	A
$C_i =$	33.4	nF
$L_i =$	Negligible	μ H

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Where x = U for UHF or V for VHF

DRAWINGS:

The following apply manufacturers drawings apply

Drawings Associated with Test Report TR 4926-1			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
100-02182008-UIBZ-V100	IS Barrier_Only – ITACS UHF	V100	2008/18/02
200-02182008-UIBZ-V202 Sheets 1 to 7	PIS Barrier_Only ITACS UHF	V202	2008/18/02
300-02182008-UIBZ-V202	IS Barrier ITACS	V202	2008/18/02
500-10122007-UIBZ-100	IS BARRIER	A	2007/12/10
100-31012008-UBDZ-V301	IS Barrier_BiDirectional with DC	V301	2008/01/31
200-31012008-UBDZ-V301 Sheets 1 to 7	IS Barrier_ BiDirectional DC - ITACS	V301	2008/01/31
300-31012008-UBDZ-V301	IS Barrier with DC ITACS	V301	2008/01/31
500-10122007-UBDZ-100	IS BARRIER WITH DC	A	2007/12/10
100-02182008-VIBZ-V100	IS Barrier_Only – ITACS VHF	V100	2008/18/02
200-02182008-VIBZ-V202 Sheets 1 to 7	PIS Barrier_Only ITACS VHF	V202	2008/18/02
300-02182008-VIBZ-V202	IS Barrier ITACS	V202	2008/18/02
500-10122007-VIBZ-100	IS BARRIER	A	2007/12/10
100-31012008-VBDZ-V301	IS Barrier_BiDirectional with DC	V301	2008/01/31
200-31012008-VBDZ-V301 Sheets 1 to 7	IS Barrier_BiDirectional DC - ITACS	V301	2008/01/31
300-31012008-VBDZ-V301	IS Barrier with DC ITACS	V301	2008/01/31
500-10122007-VBDZ-100	IS BARRIER WITH DC	A	2007/12/10

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Drawings Associated with Test Report TR 4926-2			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
100-10122007-UESZ-V211	Bidirectional Amplifier – ITACS UHF	211	2007/12/10
200-10122007-UESZ-V211 Sheets 1 to 6	UHF Bidirectional Amplifier – ITACS	V211	2007/12/10
300-10122007-UESZ-V211 Sheets 1 to 6	BDA UHF ITACS	V211	2007/12/10
500-10122007-UESZ-V211	BDA	A	2007/12/10
100-10122007-UAAZ-V300	AMP ATTENUATOR Sch - ITACS	V300	2007/12/10
200-10122007-UAAZ-V300 Sheets 1 to 8	AMP ATTENUATOR PCB	300	2007/12/10
300-10062008-UAAZ-V300	AMP ATTENUATOR ITACS	V300	2008/06/10
100-11022008-UTFZ-V201	Themwell Helical Filter ITACS UHF	V201	2008/02/11
200-11022008-UTFZ-V201 Sheets 1 to 6	Themwell Helical Filter - ITACS UHF	V201	2008/02/11
300-11022008-UTFZ-V201	Themwell Helical Filter - ITACS	V201	2008/02/11
100-10122007-UESZ-V650	BDA PSU Board With Fuse Protection - ITACS	V650	2007/12/10
200-10122007-UESZ-V650 Sheets 1 to 9	BDA PSU BOARD WITH FUSE PROTECTION ITACS UHF	V650	2007/12/10
300-10122007-UESZ-V650 Sheets 1 to 3	BDA DISPLAY UHF ITACS	V650	2007/12/10
100-10122007-VESZ-V211	Bidirectional Amplifier – ITACS VHF	211	2007/12/10
200-10122007-VESZ-V211 Sheets 1 to 6	VHF Bidirectional Amplifier – ITACS	211	2007/12/10
300-10122007-VESZ-V211 Sheets 1 to 6	BDA VHF ITACS	V211	2007/12/10
500-10122007-VESZ-V211	BDA	A	2007/12/10
100-11022008-VTFZ-V201	Themwell Helical Filter ITACS	V201	2008/02/11
200-11022008-VTFZ-V201 Sheets 1 to 6	Themwell Helical Filter - ITACS VHF	V201	2008/02/11
300-11022008-VTFZ-V201	Themwell Helical Filter - ITACS	V201	2008/02/11
100-10122007-VESZ-V650	BDA PSU Board With Fuse Protection - ITACS	V650	2007/12/10

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Drawings Associated with Test Report TR 4926-2			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
200-10122007-VESZ-V650 Sheets 1 to 9	BDA PSU BOARD WITH FUSE PROTECTION ITACS VHF	V650	2007/12/10
300-10122007-VESZ-V650 Sheets 1 to 3	BDA DISPLAY VHF ITACS	V650	2007/12/10

Drawings Associated with Test Report TR 4926-3			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
UHF			
4 Way Splitter			
100-10122007-U4SZ-V204	LF-4 Way Splitter – ITACS UHF	V204	2007/12/10
200-10122007-U4SZ-V204 Sheets 1 to 6	4 WAY SPLITTER – ITACS UHF	V204	2007/12/10
300-10122007-U4SZ-V204 Sheets 1 & 2	4Way Splitter – ITACS	204	2007/12/10
500-10122007-U4SZ-V204	4 WAY SPLITTER	A	2007/12/10
3 Way Splitter			
100-10122007-U3SZ-V200	LF-3 Way Splitter – ITACS	V200	2007/12/10
200-10122007-U3SZ-V211 Sheets 1 to 6	3 WAY SPLITTER – ITACS UHF	V211	2007/12/10
300-10122007-U3SZ-V211 Sheets 1 & 2	3 Way Splitter – ITACS	V211	2007/12/10
500-10122007-U3SZ-100	3 WAY SPLITTER	A	2007/12/10
IS Cell Coupler			
100-10122007-UCCZ-V202	IS Cell Coupler – ITACS UHF	V202	2007/12/10
200-10122007-UCCZ-V202 Sheets 1 to 7	IS CELL COUPLER – ITACS UHF	V202	2007/12/10
300-10122007-UCCZ-V202	Cell Coupler – ITACS	V202	2007/12/10

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Drawings Associated with Test Report TR 4926-3			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
500-10122007-UCCZ-100	IS CELL COUPLER	A	2007/12/10
IS Cell Coupler with DC			
100-10122007-UCDZ-V100	IS CellCoupler_BiDirectional PC - ITACS UHF	V100	2007/12/10
200-10122007-UCDZ-V301 Sheets 1 to 7	IS CellCoupler with DC – ITACS UHF	V301	2007/12/10
300-10122007-UCDZ-V301	Cell Coupler with DC ITACS	V301	2007/12/10
500-10122007-UCDZ-100	IS CELL COUPLER WITH DC	A	2007/12/10
BiDirectional Power Coupler			
100-10122007-UBPZ-V310	BiDirectional Power Coupler ITACS	V310	2007/12/10
200-10122007-UBPZ-V310 Sheets 1 to 6	BiDirectional Power Coupler UHF ITACS	V310	2007/12/10
300-10122007-UBPZ-V310	Bi Directional PC ITACS	V310	2007/12/10
500-10122007-UBPZ-100	Bi Directional Power Coupler	A	2007/12/10
Splice Box			
100-10122007-USIZ-V200	LF-Splice Box - ITACS UHF	V200	2007/12/10
200-10122007-USIZ-V200 Sheets 1 to 6	LF-SSplice Box - ITACS UHF	V200	2007/12/10
300-10122007-USIZ-V200	Splice Box - ITACS	V200	2007/12/10
500-10122007-USIZ-100	SPLICE BOX	A	2007/12/10
Splice Box with DC			
100-10122007-USDZ-V100	LF-Splice Box with DC - ITACS UHF	V100	2007/12/10
200-10122007-USDZ-V100 Sheets 1 to 6	SpliceBox With DC Coupler - ITACS UHF	V100	2007/12/10
300-10122007-USDZ-V100	Splice Box with DC Coupler ITACS	V100	2007/12/10
500-10122007-USDZ-100	SPLICE BOX WITH DC	A	2007/12/10
End Of Line			
100-10122007-UTRZ-V200	End Of Line – ITACS UHF	V200	2007/12/10
200-10122007- UTRZ-V200 Sheets 1 to 6	LF – END OF LINE – ITACS UHF	V200	2007/12/10
300-10122007- UTRZ-V200	End of Line-ITACS	V200	2007/12/10

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Drawings Associated with Test Report TR 4926-3			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
500-10122007- UTRZ-100	END OF LINE	A	2007/12/10
VHF			
4 Way Splitter			
100-10122007-V4SZ-V204	LF-4 Way Splitter – ITACS VHF	V204	2007/12/10
200-10122007-V4SZ-V204 Sheets 1 to 6	4 WAY SPLITTER – ITACS VHF	V204	2007/12/10
300-10122007-V4SZ-V204 Sheets 1 & 2	4Way Splitter – ITACS	204	2007/12/10
500-10122007-V4SZ-V204	4 WAY SPLITTER	A	2007/12/10
3 Way Splitter			
100-10122007-V3SZ-V200	LF-3 Way Splitter – ITACS	V200	2007/12/10
200-10122007-V3SZ-V211 Sheets 1 to 6	3 WAY SPLITTER – ITACS VHF	V211	2007/12/10
300-10122007-V3SZ-V211 Sheets 1 & 2	3 Way Splitter – ITACS	V211	2007/12/10
500-10122007-V3SZ-100	3 WAY SPLITTER	A	2007/12/10
IS Cell Coupler			
100-10122007-VCCZ-V202	IS Cell Coupler – ITACS VHF	V202	2007/12/10
200-10122007-VCCZ-V202 Sheets 1 to 7	IS CELL COUPLER – ITACS VHF	V202	2007/12/10
300-10122007-VCCZ-V202	Cell Coupler – ITACS	V202	2007/12/10
500-10122007-VCCZ-100	IS Cell Coupler	A	2007/12/10
IS Cell Coupler with DC			
100-10122007-VCDZ-V100	IS CellCoupler_BiDirectional PC - ITACS VHF	V100	2007/12/10
200-10122007-VCDZ-V301 Sheets 1 to 7	IS CellCoupler with DC – ITACS VHF	V301	2007/12/10
300-10122007-VCDZ-V301	Cell Coupler with DC ITACS	V301	2007/12/10
500-10122007-VCDZ-100	IS CELL COUPLER WITH DC	A	2007/12/10
BiDirectional Power Coupler			
100-10122007-VBPZ-V310	BiDirectional Power Coupler ITACS	V310	2007/12/10

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Drawings Associated with Test Report TR 4926-3			
Document No.	Document Title	Issue	Date (yyyy/mm/dd)
200-10122007-VBPZ-V310 Sheets 1 to 6	BiDirectional Power Coupler VHF ITACS	V310	2007/12/10
300-10122007-VBPZ-V310	Bi Directional PC ITACS	V310	2007/12/10
500-10122007-VBPZ-100	Bi Directional Power Coupler	A	2007/12/10
Splice Box			
100-10122007-VSIZ-V200	LF-Splice Box - ITACS VHF	V200	2007/12/10
200-10122007-VSIZ-V200 Sheets 1 to 6	LF-SSplice Box - ITACS VHF	V200	2007/12/10
300-10122007-VSIZ-V200	Splice Box - ITACS	V200	2007/12/10
500-10122007-VSIZ-100	SPLICE BOX	A	2007/12/10
Splice Box with DC			
100-10122007-VSDZ-V100	LF-Splice Box with DC - ITACS VHF	V100	2007/12/10
200-10122007-VSDZ-V100 Sheets 1 to 6	SpliceBox With DC Coupler - ITACS VHF	V100	2007/12/10
300-10122007-VSDZ-V100	Splice Box with DC Coupler ITACS	V100	2007/12/10
500-10122007-VSDZ-100	SPLICE BOX WITH DC	A	2007/12/10
End Of Line			
100-10122007-VTRZ-V200	End Of Line – ITACS VHF	V200	2007/12/10
200-10122007- VTRZ-V200 Sheets 1 to 6	LF – END OF LINE – ITACS VHF	V200	2007/12/10
300-10122007- VTRZ-V200	End of Line-ITACS	V200	2007/12/10
500-10122007- VTRZ-100	END OF LINE	A	2007/12/10