

Railway Cable

Power cabling applications in locomotives and coaches



**CABLE
YOU CAN
TRUST**

181A Barbara Road, Elandsfontein

PO Box 1679, Edenvale 1610

Tel + 27 (0)11 396 8000

Fax + 27 (0)11 396 8010

www.aberdare.co.za

ABERDARE
CABLES

COMPANY PROFILE

Aberdare Cables, a member of the Powertech Group, is a leading African manufacturer of cables and distributor of electrical accessories. With manufacturing sites in three provinces of South Africa, and offshore operations in Mozambique, Portugal and Spain, Aberdare Cables manufactures an extensive range of electrical cables for application in power transmission, power distribution, rail, petrochemical, mining, ports, airports, wholesale, construction and domestic building environments. Aberdare Cables prides its self on its ability to identify and satisfy customer needs through development of innovative products; unique, cost effective cable solutions for a wide range of industries. This and their extensive project experience make them the supplier of choice for cable, electrical accessories (switches, sockets, circuit breakers and reticulation) and special cable projects.

Technology focus

Aberdare Cables pursues on-going technology development programmes, and through active association with its local and overseas affiliates, continues to remain at the forefront of technology. The company has been recognised internationally as a pioneer in cable advancements. Aberdare serves on a number of SABS and International Electro Technical Commission (IEC) cable working groups. As much as ten years ago, in a move towards facilitating the provision of electricity for all countrywide, Aberdare Cables designed products with an emphasis on cost efficiency of electrification. To this end, Aberdare created its Electrodac range, which is aimed specifically at facilitating rural electrification by lowering the cost of electricity delivery. More recently, in accordance with Siemens specifications, Aberdare produced an unarmoured cable, with stringent fire characteristics, that was designed to reduce the propagation of fire by cables. This cable is used at Eskom's open-cycle gas turbine generators at Mossel Bay and Atlantis. To cater for international markets, Aberdare introduced fire survival cable with stringent properties that allow continuous operation and circuit integrity for extended periods during a fire.

Quality focus

Aberdare Cables is a forerunner in the industry with regard to quality. The manufacturing, quality assurance, testing and research resources of Aberdare are of a world-class standard. In fact, the company was one of the first companies in South Africa to be awarded the South African Bureau of Standards (SABS) Quality Assurance Certification, and has been ISO 9001 compliant for many years. Aberdare Cables is UL listed and has Basec QA accreditation.

Transformation focus

Aberdare has embraced the empowerment concept. Today, Izingwe Consortium owns 30% of the company and the company has assisted in the development of a number of black enterprises, such as DRUMCO, the company that makes Aberdare Cable Drums. At Aberdare, education, training and development are seen as a foundation for economic productivity and as crucial tools to build empowered and dedicated employees. In this regard, the company actively promotes and follows a number of education programmes, including adult education, apprentices, trainees, learnerships and formal education assistance.

Aberdare Cables has always been an active supporter and pillar of strength for the communities in which it operates. The company is championing a number of social investment initiatives across our country. The biggest of these investments has been the continuous sponsorship of Sinethemba home for street children in Port Elizabeth.

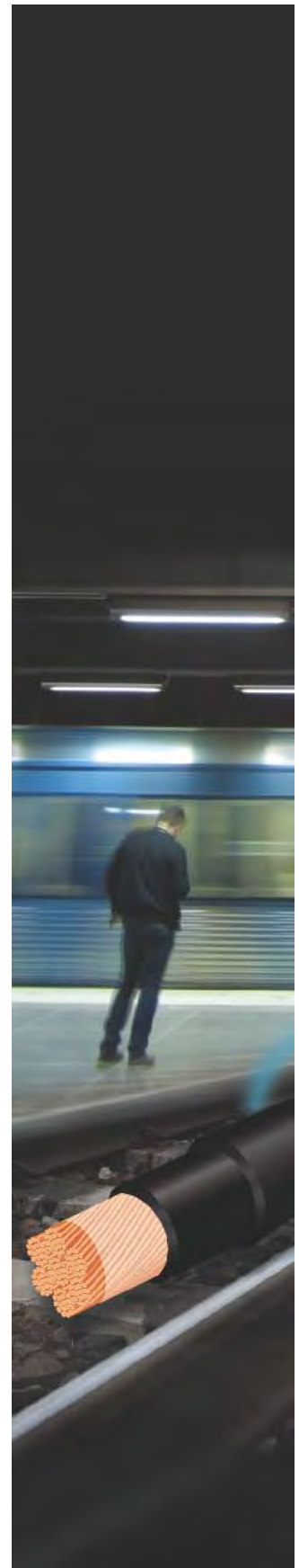
As a proudly South African company, Aberdare participated actively in the development of the ICT charter and the draft DTI BBBEE codes. Aberdare will continue to adopt a proactive approach to effect the transformation that the codes specify and to lead the cable industry in this regard. We enjoy a BBBEE status of Level 3 (AA).

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Quality and reliability backed by Aberdare

All cable manufactured by Aberdare Cables are covered by warranty for a period of 3 years. Please review our Terms and Conditions of Sale for further details.

XLHFC Single Core 500 V DC

Railway Cable



Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, insulated with material type HFD1 to SANS 1411-5.

Application Information

DC power cabling solutions for locomotives and coaches.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP/015 Table 6.
Operating Temperature	: 90 °C
Voltage Rating	: 500 V DC (Conductor to earth)
Insulation Colours	: Light green or grey
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 100 m coils and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (***)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
GPXE1.5T01UC(*)GC1	1,5	1,6	3,2	29/0,25	22	25	0,8
GPXE2.5T01UC(*)GC1	2,5	2,1	3,9	47/0,25	34	30	0,9

Electrical Properties

Product Code	Cable Size	Current Rating in Air (**)		Max DC Resistance @20°C	Single Phase Voltage Drop
		Current Rating in Duct (**)			
		Single Phase	Single Phase		
	2 Wires Touching	2 Wire Touching			
(mm ²)	(A)	(A)	(Ω/km)	(mV/A/m)	
GPXE1.5T01UC(*)GC1	1,5	24	23	13,7	34,9
GPXE2.5T01UC(*)GC1	2,5	33	30	8,21	20,9

* Notes: - **Product Code:**
GPXE1.5T01UC(*)GC1
 01 - Light Green
 HH - Grey

** Note: - Current ratings in accordance to IEC 60287
 - For 2 wires touching in air (shade)
 - Ambient temperature of 30°C
 - Maximum operating temperature of 90°C

*** Note: - Minimum bending radius ratio of 8 x OD

EPM EVA Single Core 500 V DC

Railway Cable

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Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, composite insulation and sheath to material types HFB1 and HFS1 respectively to SANS 1411-5.

Application Information

DC power cabling solutions for locomotives and coaches.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP/015 Table 6.
Operating Temperature	: 85 °C
Voltage Rating	: 500 V DC (Conductor to earth)
Insulation Colours	: Green
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 500 m drums and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (**)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
RRLU1.5T01URGGPD5	1,5	1,6	3,2	29/0,3	22	25	0,4
RRLU2.5T01URGGPD5	2,5	2,0	3,8	48/0,3	34	30	0,5
RRLU4.0T01URGGPD5	4	2,6	4,6	56/0,3	53	36	0,5
RRLU6.0T01URGGPD5	6	3,2	5,2	81/0,3	73	40	0,5
RRLU016T01URGGPD5	16	5,2	8,0	125/0.4	189	63	0,8
RRLU025T01URGGPD5	25	6,6	9,5	184/0.4	267	76	0,8

Electrical Properties

Product Code	Cable Size	Single Phase Current in Air (*)	Max DC Resistance @20°C	Single Phase Volt Drop
	(mm ²)	(A)	(Ω/km)	(mV/A/m)
RRLU1.5T01URGGPD5	1,5	23	13,7	34,4
RRLU2.5T01URGGPD5	2,5	31	8,21	20,6
RRLU4.0T01URGGPD5	4	43	5,09	12,8
RRLU6.0T01URGGPD5	6	54	3,39	8,51
RRLU016T01URGGPD5	16	108	1,24	3,11
RRLU025T01URGGPD5	25	140	0,795	2,0

* **Note:**

- Current ratings in accordance to IEC 60287
- For 2 wires touching in air (shade)
- Ambient temperature of 30°C
- Maximum operating temperature of 85°C

** **Note:**

- Minimum bending radius ratio of 8 x OD

EPM EVA Multi Core 500 V DC

Railway Cable



Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, insulated with material type HFB1 to SANS 1411-5 and sheathed with material type HFS1 to SANS 1411-5.

Application Information

DC Power cabling solutions for locomotives and coaches.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP/015 Table 11.
Operating Temperature	: 85 °C
Voltage Rating	: 500 V DC (Conductor to earth)
Insulation Colours	: Black or orange
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 500 m drums and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (***)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
RRLU2.5T19UR(*)PD5	2,5 x 19	2,0	26,8	48/0,3	1091	214	0,5
RRLU3.0T10UR(*)PD5	3 x 10	2,3	27,0	65/0,3	994	216	0,6
RRLU025T02UR(*)PD5	25 x 2	6,7	26,3	184/0,4	1065	210	0,9

Electrical Properties

Product Code	Cable Size	Single Phase Current (**)	Max DC Resistance @20°C	Single Phase Volt Drop
	(mm ²)	(A)	(Ω/km)	(mV/A/m)
RRLU2.5T19UR(*)PD5	2,5	17	8,21	19,6
RRLU3.0T10UR(*)PD5	3	21	6,26	15,0
RRLU025T02UR(*)PD5	25	115	0,79	1,9

* Notes: - Product Code:
RRLU2.5T19UR(*)PD5
BB - Black
QQ - Orange

** Note: - Current ratings in accordance to IEC 60287
- For 2 wires touching in air (shade)
- Ambient temperature of 30°C
- Maximum operating temperature of 85°C

*** Note: - Minimum bending radius ratio of 8 x OD

EPM EVA Single Core 1 kV DC

Railway Cable



Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, composite insulation and sheath to material types HFB1 and HFS1 respectively to SANS 1411-5.

Application Information

DC power cabling solutions for locomotives and coaches.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP/015 Table 7.
Operating Temperature	: 85 °C
Voltage Rating	: 1 kV DC (Conductor to earth)
Insulation Colours	: Green
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 500 m drums and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (**)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
RRLV2.5T01VRGGPD5	2,5	2,0	5,1	47/0,3	46	40	0,9
RRLV4.0T01VRGGPD5	4	2,6	5,7	56/0,3	65	37	0,9
RRLV6.0T01VRGGPD5	6	3,1	6,2	81/0,3	85	49	0,9
RRLV010T01VRGGPD5	10	4,1	7,1	77/0,4	128	56	0,9
RRLV016T01VRGGPD5	16	5,1	8,1	125/0,4	192	64	0,9
RRLV025T01VRGGPD5	25	6,6	9,8	184/0,4	275	78	1,0
RRLV050T01VRGGPD5	50	10,1	13,5	378/0,4	540	108	1,0
RRLV070T01VRGGPD5	70	11,7	15,4	341/0,5	728	123	1,0
RRLV120T01VRGGPD5	120	15,2	19,7	590/0,5	1257	157	1,2

Electrical Properties

Product Code	Cable Size	Single Phase Current (*)	Max DC Resistance @20°C	Single Phase Volt Drop
	(mm ²)	(A)	(Ω/km)	(mV/A/m)
RRLV2.5T01VRGGPD5	2,5	33	8,21	20,6
RRLV4.0T01VRGGPD5	4	45	5,09	12,8
RRLV6.0T01VRGGPD5	6	55	3,39	8,5
RRLV010T01VRGGPD5	10	79	1,95	4,9
RRLV016T01VRGGPD5	16	105	1,24	3,1
RRLV025T01VRGGPD5	25	141	0,795	2,0
RRLV050T01VRGGPD5	50	226	0,393	0,9
RRLV070T01VRGGPD5	70	281	0,277	0,7
RRLV120T01VRGGPD5	120	398	0,164	0,4

* **Note:**

- Current ratings in accordance to IEC 60287
- For 2 wires touching in air (shade)
- Ambient temperature of 30°C
- Maximum operating temperature of 85°C

** **Note:**

- Minimum bending radius ratio of 8 x OD

EPM EVA Single Core 3 kV DC

Railway Cable



Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, composite insulation and sheath to material types HFB1 and HFS1 respectively to SANS 1411-5.

Application Information

DC power cabling solutions for locomotives and coaches suitable for protected installations.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP015 Table 9.
Operating Temperature	: 85 °C
Voltage Rating	: 3 kV DC (Conductor to earth)
Insulation Colours	: Red or grey
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 500 m drums and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (***)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
RRLW6.0T01WR(*)PD5	6	3,1	10,1	81/0,3	161	80	2,4
RRLW010T01WR(*)PD5	10	4,1	11,1	77/0,3	213	88	2,4
RRLW016T01WR(*)PD5	16	5,1	12,2	125/0,4	287	97	2,4
RRLW025T01WR(*)PD5	25	6,6	13,7	184/0,4	379	109	2,4
RRLW035T01WR(*)PD5	35	8,3	15,4	267/0,4	521	123	2,4
RRLW050T01WR(*)PD5	50	10,1	17,1	378/0,4	667	136	2,4
RRLW070T01WR(*)PD5	70	11,7	18,8	341/0,5	861	150	2,4
RRLW095T01WR(*)PD5	95	13,2	20,3	456/0,5	1092	162	2,4
RRLW120T01WR(*)PD5	120	15,2	22,3	590/0,5	1380	178	2,4
RRLW150T01WR(*)PD5	150	17,0	24,1	733/0,5	1663	192	2,4
RRLW185T01WR(*)PD5	185	19,8	26,9	895/0,5	1998	215	2,4
RRLW240T01WR(*)PD5	240	22,5	29,6	1172/0,5	2540	236	2,4
RRLW300T01WR(*)PD5	300	24,8	31,9	1471/0,5	3111	255	2,4

Electrical Properties

Product Code	Cable Size	Single Phase Current (**)	Max DC Resistance @20°C	Single Phase Volt Drop
	(mm ²)	(A)	(Ω/km)	(mV/A/m)
RRLW6.0T01WR(*)PD5	6	62	3,39	8,5
RRLW010T01WR(*)PD5	10	86	1,95	4,9
RRLW016T01WR(*)PD5	16	113	1,24	3,1
RRLW025T01WR(*)PD5	25	149	0,795	2,0
RRLW035T01WR(*)PD5	35	186	0,565	1,4
RRLW050T01WR(*)PD5	50	233	0,393	1,0
RRLW070T01WR(*)PD5	70	289	0,277	0,7
RRLW095T01WR(*)PD5	95	343	0,210	0,5
RRLW120T01WR(*)PD5	120	404	0,164	0,4
RRLW150T01WR(*)PD5	150	466	0,132	0,3
RRLW185T01WR(*)PD5	185	539	0,108	0,2
RRLW240T01WR(*)PD5	240	645	0,0817	0,2
RRLW300T01WR(*)PD5	300	745	0,0654	0,1

* Notes: - Product Code:
RRLW6.0TFWR(*)PD5
RR - Red
HH - Grey

** Note: - Current ratings in accordance to IEC 60287
- For 2 wires touching in air (shade)
- Ambient temperature of 30°C
- Maximum operating temperature of 85°C
*** Note: - Minimum bending radius ratio of 8 x OD

EPM EVA Single Core 6 kV DC

Railway Cable

ABERDARE
CABLES



Cable Description

Annealed tinned copper conductors class 5 to SANS 1411-1, composite insulation and sheath to material types HFB1 and HFS1 respectively to SANS 1411-5.

Application Information

DC Power cabling solutions for locomotives and coaches.

Properties

Specification	: In accordance to Transnet specifications RS/EE/SP015 Table 8.
Operating Temperature	: 85 °C
Voltage Rating	: 6 kV DC (Conductor to earth)
Insulation Colours	: Black
Special Features	: Flexible, halogen free, oil-resistant, flame-retardant.
Packaging	: Available in 500 m drums and other packaging available on request.

Physical Properties

Product Code	Cable Size	Approx. Conductor Diameter	Approx. Overall Diameter	Nominal Stranding No x Diameter	Approx. Mass	Min Bending Radius (**)	Insulation Thickness
	(mm ²)	(mm)	(mm)		(kg/km)	(mm)	(mm)
RRLX150T01XRBBPD5	150	17,0	29,5	733/0,5	1994	237	4,3
RRLX185T01XRBBPD5	185	19,8	32,4	895/0,5	2364	259	4,3
RRLX240T01XRBBPD5	240	22,5	35,0	1172/0,5	2938	280	4,3

Electrical Properties

Product Code	Cable Size	Single Phase Current in Air (*)	Max DC Resistance @20°C	Single Phase Volt Drop
	(mm ²)	(A)	(Ω/km)	(mV/A/m)
RRLX150T01XRBBPD5	150	471	0,132	0,33
RRLX150T01XRBBPD5	185	543	0,108	0,27
RRLX150T01XRBBPD5	240	672	0,0817	0,21

*** Note:**

- Current ratings in accordance to IEC 60287
- For 2 wires touching in air (shade)
- Ambient temperature of 30°C
- Maximum operating temperature of 85°C

**** Note:** - Minimum bending radius ratio of 8 x OD

Product Range

Our Services are Wide but Specialised



The Aberdare Group's product range and services are wide but specialised. Tried and tested and carrying South African Bureau of Standards (SABS) marks and complying with International Standards, we stand by our products.

Paper Insulated Cables up to 42 kV

- Screened or belted
- Fully impregnated, general purpose, heavy duty or drained
- Copper or Aluminium conductors up to 400mm² (3 core) and 1000mm² (single core)

XLPE Insulated Cables up to 66 kV

- Individually screened
- Copper or aluminium conductors up to 300mm² (3 core) and 500mm² (single core)

Elastomeric Insulated Cables

- Flexible Cable (Types HO5 RN-F;HO7 RN-F)
- Welding Cable
- Mining Trailing Cable (Up to 33kV)

Overhead Aluminium Conductors

- AAC (All Aluminium Conductors)
- AAAC (All Aluminium Alloy Conductors)
- ACSR (Aluminium Conductor Steel Reinforced)
- PHDC (Plain Hard Drawn Copper)

General Wire Insulated & Bare Copper Wire

- Slipdac Single Core Cable
- Surfix Cable
- Flat Twin and Earth Cable
- Cabtyre Cable
- Submersible Pump Cable
- Audio cord (Ripcord)

- General Welding Cable
- Monster Cable
- HRQ Insulated Cable
- Panel Flex Cable
- Illumination Cable
- PVC Nitrile Panel Cable
- Nitrile Trailing Cable
- Bare Copper
- Single Core PVC 1kV Cable
- Single Core XLPE PVC 3.3kV Cable

Low Voltage Armoured Cables

- Bells and Mains Cable
- Multicore Cable
- Single Core Cable

Electrodac Cables

- Aerial Bundle Conductor (ABC) (LV & MV)
- Airdac SNE Cable
- Airdac CNE Cable

Intermediate Voltage Cables

- Armadac Cable

Specialised Cables

- SafeEarth Cable
- Insulated Airfield Lighting Cable

Theft Prevention Technology

- CableGuard™



Technical / Product Application queries email: helpdesk@aberdare.co.za call: + 27 (0)11 396 8107

GROUP OPERATIONS CENTRE

181A Barbara Road
Elandsfontein
PO Box 1679, Edenvale 1610
Tel +27 (0) 11 396 8000
Fax +27 (0) 11 396 8010
E-mail: info@aberdare.co.za

MANUFACTURING - SA

CBI-electric Aberdare ATC Telecom Cables

Marthinus Ras Street, Industrial Sites
Brits, North West Province
PO Box 663, Brits 0250
Tel +27 (0)12 381 1400
Fax +27 (0)12 250 3412

MANUFACTURING - INTERNATIONAL

Maputo (Mozambique)

Aberdare Intelec
Av. de Angola, No 1818
Maputo - Mozambique
Tel +25 821 466496/7
Fax +25 821 466396

CUSTOMER SERVICE CENTRES - SA

National Sales Orders

Coastal & Interior Sales
Tel +27 (0)11 390 8000
Fax Interior Sales +27 (0)11 396 8011
Fax Coastal Sales +27 (0)11 396 8028
orders@aberdare.co.za

Durban

23 Gillitts Road
Pinetown
PO Box 131, Pinetown 3600
Tel +27 (0)31 702 2861
Fax +27 (0)31 702 2959

Middelburg

13 Wicht Street
Middelburg
PO Box 2433, Middelburg 1050
Tel +27 (0)13 246 2511
Fax +27 (0)13 246 2144

DISTRIBUTION & LOGISTICS

4 Gross Street, Off Tunney Road
Elandsfontein
PO Box 2566, Edenvale 1610
Tel +27 (0)11 396 8000
Fax +27 (0)11 396 8015
E-mail: info@aberdare.co.za

Pietermaritzburg

Gladys Manzi Road, M'Kondeni,
Pietermaritzburg
PO Box 188, Pietermaritzburg 3200
Tel +27 (0)33 845 3200
Fax +27 (0)33 346 0039

Porto (Portugal)

Alcobré Condutores Eléctricos S.A.
Av. D. Manuel 1 Zona Industrial de Ovar
Apartado 30 3884-909 OVAR CODEX
Tel +351 256 579440
Fax +351 256 579445

Bloemfontein

East End Business Park, 32 Mackenzie Street
East End, Bloemfontein
PO Box 1883, Bloemfontein 9300
Tel +27 (0)51 448 9226
Fax +27 (0)51 447 9078

Exports & Tenders

181A Barbara Road
Elandsfontein
PO Box 2566, Edenvale 1610
Tel +27 (0)11 396 8000
Fax +27 (0)11 396 8013

Nelspruit

23 Van Rensburg Street
Sonheuwel, Nelspruit
PO Box 3856, White River 1240
Tel +27 (0)13 752 6317/8
Fax +27 (0)13 753 3485

DIVISION

Alcon Marepha (Pty) Ltd

10 Kite Street, Birch Acres
Kempston Park
PO Box 13837, Norkem Park, 1631
Tel +27 (0)11 393 4037
Fax +27 (0)11 393 4410

Port Elizabeth

Standford Road, Neave Township
Port Elizabeth
PO Box 494, Port Elizabeth 6000
Tel +27 (0)41 405 6000
Fax +27 (0)41 451 1471

Zaragoza (Spain)

Cables de Comunicaciones
Poligono de Malpica C/D 83
50016 Zaragoza, Spain
Tel +34 976 72 9900
Fax +34 976 72 9968

CapeTown

Unit No 6A, Phumelela Park
Montague Drive, Montague Gardens
PO Box 36654, Chempet 7442
Tel +27 (0)21 555 2919
Fax +27 (0)21 555 2950/2

Gauteng

181A Barbara Road
Elandsfontein
PO Box 2566, Edenvale 1610
Tel +27 (0)11 396 8000
Fax +27 (0)11 396 8035

Port Elizabeth

Standford Road, Korsten
Port Elizabeth
PO Box 3963, North End 6056
Tel +27 (0)41 405 6000
Fax +27 (0)41 405 6050

www.aberdare.co.za

Technical / Product Application queries email: helpdesk@aberdare.co.za call: +27 (0)11 396 8107



POSSIBLE SPECIFICATION CHANGES:

Aberdare's policy of continuous product improvement may result in changes to the finished product, the parameters of which may differ from the published parameters in this brochure. Aberdare reserves the right to change product specifications for time to time to effect improvements and/or enhancements and accepts no liability arising from any differences between the published parameters of this brochure and the finished product, unless by prior written agreement.

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