# طرب Ducab

## FlamBICC ANZ Cables

## **COMPLETE FIRE SOLUTION CABLES**



حلول متقدمة للكابلات من خلال التقنية والابداع Advanced Cable Solutions Through Technology and Innovation





#### FLAMBICC ANZ FIRE PERFORMANCE CABLES

Ducab FlamBICC ANZ cables are single and multicore Fire Performance power & control cables which are designed as per AS/NZS 5000.1 standard & fire/mechanical tested as per AS/NZS 3013 standard according to WS52W & WS51W testing classifications.

Ducab FlamBICC ANZ Cables are approved by EXOVA WARRINGTONFIRE AUS PTY LTD (EXOVA), and are suitable for use in emergency safety circuits to maintain circuit integrity in presence of fire up to two hours at extreme temperature of 1050° C.

These cables are rated as 110° C for increased current rating and made with special Low Smoke Zero Halogen (LSZH) material which does not emit thick smoke thus ensuring light transmittance and does not emit toxic halogen fumes in the event of fire. Accordingly, these cables are fit to use in confined spaces and high people density areas such as hospitals, airports and other public premises.

#### CONSTRUCTION

Conductor : Plain annealed copper flexible conductor complying with AS/NZS 1125, class 5.

Primary Insulation : Mica Glass Tape.

Secondary Insulation: Cross Linked, Halogen Free, Flame Retardant, X-HF-110.

Outer Sheath : Thermoplastic, Low Smoke, Halogen Free, HFS-110-TP.

### **CHARACTERISTICS**

General	FlamBICC ANZ cables are designed for laying in conduit or on trays where fire resistance is of paramount importance.
Approvals	EXOVA Warringtonfire
Voltage grade	0.6/1 (1.2) kV
Cable operating temperature	110°C maximum
Core colours	Red, White, Blue, Black, Green/Yellow.
Packaging	1000 / 500 drum; Other packaging and lengths available on request
Key Applications:	Fixed installations in power and lighting circuits at working voltages up to and including 0.6/1 (1.2) kV



0.6/1kV, Class 5, Copper Conductor, Mica Glass Taped, X-HF-110 Insulated, HFS-110-TP Outer Sheathed, Electric Cable Conforming to AS/NZS 5000.1 & AS/NZS 3013 specification.

Nominal cross- sectional area of Conductor	Nominal thickness of Insulation (Main Core)	Nominal thickness of Sheath	Approximate Overall Diameter	Approximate Cable Net Weight	Maximum DC resistance at 20°C	Classification to AS/NZS 3013
mm2	mm	mm	mm	kg/km	Ω/Km	WS Rating
1x6	0.7	1.4	9.2	138	3.3	WS52W
1x10	0.7	1.4	10.2	188	1.91	WS52W
1x16	0.7	1.4	11.2	252	1.21	WS52W
1x25	0.9	1.4	13.1	365	0.78	WS52W
1x35	0.9	1.4	14.4	459	0.554	WS52W
1x50	1	1.4	16.1	621	0.386	WS52W
1x70	1,1	1.41	18	841	0.272	WS52W
1x95	1.1	1.5	19.9	1060	0.206	WS52W
1x120	1.2	1.52	21.7	1310	0.161	WS52W
1x150	1.4	1.6	23.2	1596	0.129	WS52W
1x185	1.6	1.7	26.2	2033	0.106	WS52W
1x240	1.7	1.8	29.2	2531	0.0801	WS52W
1x300	1.8	1.8	32.1	3158	0.0641	WS52W
1x400	2	2	36.2	4092	0.0486	WS52W
1x500	2.2	2.1	39.1	5111	0.0384	WS52W
1x630	2.4	2.2	43	6210	0.0283	WS52W



0.6/1kV, Class 5, Copper Conductor, Mica Glass Taped, X-HF-110 Insulated, HFS-110-TP Outer Sheathed, Electric Cable Conforming to AS/NZS 5000.1 & AS/NZS 3013 specification.

Nominal cross- sectional area of Conductor	Nominal thickness of Insulation (Main Core)	Nominal thickness of Sheath	Approximate Overall Diameter	Approximate Cable Net Weight	Maximum DC resistance at 20°C	Classification to AS/NZS 3013
mm2	mm	mm	mm	kg/km	Ω/Km	WS Rating
2x0.75	0.7	1.8	10.5	145	26	WS51W
2x1.5	0.7	1.8	11.4	176	13.3	WS51W
2x2.5	0.7	1.8	12.4	219	7.98	WS51W
2x1.5 + 1.5E	0.7	1.8	12	193	13.3	WS52W
2x2.5 + 2.5E	0.7	1.8	13.1	245	7.98	WS52W
2x4 + 2.5E	0.7	1.8	14.2	287	4.95/7.98	WS52W
2x4 + 4E	0.7	1.8	14.2	309	4.95	WS52W
2x6 + 2.5E	0.7	1.8	15.5	340	3.3/7.98	WS52W
2x6 + 6E	0.7	1.8	15.5	391	3.3	WS52W
2x10 + 4E	0.7	1.8	18.7	484	1.91/4.95	WS52W
2x10 + 10E	0.7	1.8	18.7	572	1.91	WS52W
2x16 + 6E	0.7	1.8	20.8	771	1.21/3.3	WS52W
2x16 + 16E	0.7	1.8	20.8	803	1.21	WS52W
2x25 + 6E	0.9	1.8	25	1061	0.78/3.3	WS52W
2x25 + 25E	0.9	1.8	25	1343	0.78	WS52W
2x35 + 10E	0.9	1.8	27.8	1322	0.554/1.91	WS52W
2x50 + 16E	Ť	1.8	31.5	1743	0.386/1.21	WS52W
2x70 + 25E	1.1	1.8	35.6	3149	0.272/0.78	WS52W
2x95 + 25E	1.1	1.9	39.5	2599	0.206/0.78	WS52W
2x120 + 35E	1.2	2	43.5	3250	0.161/0.554	WS52W
2x150 + 50E	1.4	2.1	46.7	4071	0.129/0.386	WS52W
2x185 + 70E	1.6	2.3	53	5263	0.106/0.272	WS52W
2x240 + 95E	1.7	2.4	59	6565	0.0801/0.206	WS52W



0.6/1kV, Class 5, Copper Conductor, Mica Glass Taped, X-HF-110 Insulated, HFS-110-TP Outer Sheathed, Electric Cable Conforming to AS/NZS 5000.1 & AS/NZS 3013 specification.

Nominal cross- sectional area of Conductor	Nominal thickness of Insulation (Main Core)	Nominal thickness of Sheath	Approximate Overall Diameter	Approximate Cable Net Weight	Maximum DC resistance at 20°C	Classification to AS/NZS 3013
mm2	mm	mm	mm	kg/km	Ω/Km	WS Rating
3x0.75	0.7	1.8	11	163	26	WS51W
3x1.5	0.7	1.8	12	203	13.3	WS51W
3x2.5	0.7	1.8	13.1	245	7.98	WS51W
3x1.5 + 1.5E	0.7	1.8	12.9	226	13.3	WS52W
3x2.5 + 2.5E	0.7	1.8	14.2	294	7.98	WS52W
3x4 + 2.5E	0.7	1.8	15.4	335	4.95/7.98	WS52W
3x4 + 4E	0.7	1.8	15.4	375	4.95	WS52W
3x6 + 2.5E	0.7	1.8	16.8	424	3.3/7.98	WS52W
3x6 + 6E	0.7	1.8	16.8	477	3.3	WS52W
3x10 + 4E	0.7	1.8	20.4	603	1.91/4.95	WS52W
3x10 + 10E	0.7	1.8	20.4	718	1.91	WS52W
3x16 + 6E	0.7	1.8	22.8	843	1.21/3.3	WS52W
3x16 + 16E	0.7	1.8	22.8	992	1.21	WS52W
3x25 + 6E	0.9	1.8	27.5	1338	0.78/3.3	WS52W
3x25 + 25E	0.9	1.8	27.5	1637	0.78	WS52W
3x35 + 10E	0.9	1.8	30.6	1722	0.554/1.91	WS52W
3x50 + 16E	1	1.8	34.7	2272	0.386/1.21	WS52W
3x70 + 25E	1.1	1.9	39.5	2773	0.272/0.78	WS52W
3x95 + 25E	1.1	2	43.8	3422	0.206/0.78	WS52W
3x120 + 35E	1.2	2.1	48.5	4283	0.161/0.554	WS52W
3x150 + 50E	1.4	2.3	52.1	5321	0.129/0.386	WS52W
3x185 + 70E	1.6	2.5	59	6848	0.106/0.272	WS52W
3x240 + 95E	1.7	2.6	66	8545	0.0801/0.206	WS52W
3x300 + 120E	1.8	2.8	73.5	10736	0.0641/0.161	WS52W



0.6/1kV, Class 5, Copper Conductor, Mica Glass Taped, X-HF-110 Insulated, HFS-110-TP Outer Sheathed, Electric Cable Conforming to AS/NZS 5000.1 & AS/NZS 3013 specification.

Nominal cross- sectional area of Conductor	Nominal thickness of Insulation (Main Core)	Nominal thickness of Sheath	Approximate Overall Diameter	Approximate Cable Net Weight	Maximum DC resistance at 20°C	Classification to AS/NZS 3013
mm2	mm	mm	mm	kg/km	Ω/Km	WS Rating
4x0.75	0.7	1.8	11.8	188	26	WS51W
4x1.5	0.7	1.8	12.9	236	13.3	WS51W
4x2.5	0.7	1.8	14.2	294	7.98	WS51W
4x1.5 + 1.5E	0.7	1.8	14	271	13.3	WS52W
4x2.5 + 2.5E	0.7	1.8	15.3	348	7.98	WS52W
4x4 + 2.5E	0.7	1.8	16.7	403	4.95/7.98	WS52W
4x4 + 4E	0.7	1.8	16.7	447	4.95	WS52W
4x6 + 2.5E	0.7	1.8	18.3	523	3.3/7.98	WS52W
4x6 + 6E	0.7	1.8	18.3	576	3.3	WS52W
4x10 + 4E	0.7	1.8	22.3	769	1.91/4.95	WS52W
4x10 + 10E	0.7	1.8	22.3	864	1.91	WS52W
4x16 + 6E	0.7	1.8	25	1047	1.21/3.3	WS52W
4x16 + 16E	0.7	1.8	25	1202	1.21	WS52W
4x25 + 6E	0.9	1.8	30.2	1502	0.78/3.3	WS52W
4x25 + 25E	0.9	1.8	30.2	1846	0.78	WS52W
4x35 + 10E	0.9	1.8	33.7	1939	0.554/1.91	WS52W
4x50 + 16E	1	1.9	38.5	2687	0.386/1.21	WS52W
4x70 + 25E	1.1	2	43.8	3700	0.272/0.78	WS52W
4x95 + 25E	1.1	2.2	48.8	4581	0.206/0.78	WS52W
4x120 + 35E	1.2	2.3	53.8	5728	0.161/0.554	WS52W
4x150 + 50E	1.4	2.5	57.9	7127	0.129/0.386	WS52W
4x185 + 70E	1.6	2.7	65.7	9177	0.106/0.272	WS52W



0.6/1kV, Class 5, Copper Conductor, Mica Glass Taped, X-HF-110 Insulated, HFS-110-TP Outer Sheathed, Electric Cable Conforming to AS/NZS 5000.1 & AS/NZS 3013 specification.

Nominal cross- sectional area of Conductor	Nominal thickness of Insulation (Main Core)	Nominal thickness of Sheath	Approximate Overall Diameter	Approximate Cable Net Weight	Maximum DC resistance at 20°C	Classification to AS/NZS 3013
mm2	mm	mm	mm	kg/km	Ω/Km	WS Rating
6x1.5 + 1.5E	0.7	1.8	15	345	13.3/13.3	WS52W
9x1.5 + 1.5E	0.7	1.8	18.5	475	13.3/13.3	WS52W
11x1.5 + 1.5E	0.7	1.8	19.5	535	13.3/13.3	WS52W
18x1.5 + 1.5E	0.7	1.8	22.5	748	13.3/13.3	WS52W
23x1.5 + 1.5E	0.7	1.8	26	930	13.3/13.3	WS52W
26x1.5 + 1.5E	0.7	1.8	26.5	1010	13.3/13.3	WS52W
32x1.5 + 1.5E	0.7	1.8	28.5	1190	13.3/13.3	WS52W
36x1.5 + 1.5E	0.7	1.8	29.5	1290	13.3/13.3	WS52W
6x2.5 + 2.5E	0.7	1.8	16.5	452	7.98/7.98	WS52W
9x2.5 + 2.5E	0.7	1.8	20.5	627	7.98/7.98	WS52W
11x2.5 + 2.5E	0.7	1.8	21.5	709	7.98/7.98	WS52W
18x2.5 + 2.5E	0.7	1.8	24.5	1010	7.98/7.98	WS52W
23x2.5 + 2.5E	0.7	1.8	28.5	1260	7.98/7.98	WS52W
26x2.5 + 2.5E	0.7	1.8	29.5	1375	7.98/7.98	WS52W
32x2.5 + 2.5E	0.7	1.8	31.5	1620	7.98/7.98	WS52W
36x2.5 + 2.5E	0.7	1.8	32.5	1780	7.98/7.98	WS52W

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EWFA Test Certificate No.	SFC49581100a.1 Page 1 of 1
Report Sponsor	Issue Date
Ducab PO Box 11529 Dubai United Arab Emirates	15/12/2017

#### Introduction

This test certificate is to verify the element of construction described below was tested by this laboratory on behalf of the test sponsor in accordance with the stated test standard and achieved the results stated below.

Referenced Reports	Report Date	Test Standard
EWFA 49581000a.3	12/01/2018	AS/NZS 3013:2005, Appendix A & B
EWFA 49581100a.2	12/01/2018	AS/NZS 3013:2005, Appendix D & E

	Description of Assessed Cable
Cable Description	<ul> <li>Screened multicore cable comprising 3 cores, 10mm² conductor, and 1 Earth, 4mm² conductor.</li> <li>Cable overall outer diameter of nominal 19.4mm.</li> <li>Test bending radius of cable: 155mm on the inside of the bend.</li> <li>Mechanical testing temperature range: -25°C to 110°C.</li> <li>Refer to the referenced reports for a full description of tested cable.</li> </ul>
Cable Configuration	The cable was tested as a single cable for Appendix A & B with two bends of 90° at a bending radius of 155mm. The cable was positioned in the cable tray with a metallic cable tie fixing the cable to the tray at the centre of the two directional changes; otherwise plastic cable ties were used. Refer to the referenced test reports for a full description of cable configuration.

Cable Classification					
Cable Description	Product Code	Cable Group	<b>Cable Classification</b>		
3C(10mm²) + E (4mm²)	Ducab C BICC Electric Cable 0.6/1kV 3C × 10mm <sup>2</sup> + 1E × 4mm <sup>2</sup> (Design 1)	2	WS52W		

#### Notes

## THIS CERTIFICATE IS PROVIDED FOR GENERAL INFORMATION ONLY AND DOES NOT COMPLY WITH THE REGULATORY REQUIREMENTS FOR EVIDENCE OF COMPLIANCE.

TESTING AUTHORITY	Exova Warringtonfire	Exova Warringtonfire Aus Pty Ltd			
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EWFA Test Certificate No.	SFC49581100b.1 Page 1 of 1
Report Sponsor	Issue Date
Ducab PO Box 11529 Dubai United Arab Emirates	8/01/2018

#### Introduction

This test certificate is to verify the element of construction described below was tested by this laboratory on behalf of the test sponsor in accordance with the stated test standard and achieved the results stated below.

Referenced Reports	Report Date	Test Standard
EWFA 49581000b.2	8/01/2018	AS/NZS 3013:2005, Appendix A & B
EWFA Mech 49581100b.1	8/01/2018	AS/NZS 3013:2005, Appendix D & E

Description of Assessed Cable				
<ul> <li>Cable Description</li> <li>Screened single core cable, 35mm² conductor.</li> <li>Cable overall outer diameter of nominal 13.9mm.</li> <li>Test bending radius of cable: 112mm on the inside of the bend.</li> <li>Mechanical testing temperature range: -25°C to 110°C.</li> <li>Refer to the referenced reports for a full description of tested cable.</li> </ul>				
Cable Configuration	The cable was tested as a single cable for Appendix A & B with two bends of 90° at a bending radius of 112mm. The cable was positioned in the cable tray with a metallic cable tie fixing the cable to the tray at the centre of the two directional changes; otherwise plastic cable ties were used. Refer to the referenced test reports for a full description of cable configuration.			

Cable Classification				
Cable Description Product Code		Cable Group	Cable Classification	
1C(35mm <sup>2</sup> )	Ducab 0.6/1kV 1C × 35mm <sup>2</sup> (Design 1)	1	WS52W	

#### **Notes**

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TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd		
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EWFA Test Certificate No.	SFC49581300c.1 Page 1 of 1
Report Sponsor	Issue Date
Ducab PO Box 11529 Dubai United Arab Emirates	5/01/2018

#### Introduction

This test certificate is to verify the element of construction described below was tested by this laboratory on behalf of the test sponsor in accordance with the stated test standard and achieved the results stated below.

Referenced Reports	Report Date	Test Standard
EWFA 49581200c.2	8/01/2018	AS/NZS 3013:2005, Appendix A & B
EWFA Mech 49581300c.1	8/01/2018	AS/NZS 3013:2005, Appendix D & E

	Description of Assessed Cable				
Cable Description	<ul> <li>Screened multicore cable comprising 3 cores + earth, 1.5mm² conductor.</li> <li>Cable overall outer diameter of nominal 12.9mm.</li> <li>Test bending radius of cable: 103mm on the inside of the bend.</li> <li>Mechanical testing temperature range: -25°C to 110°C.</li> <li>Refer to the referenced reports for a full description of tested cable.</li> </ul>				
Cable Configuration	The cable was tested as a single cable for Appendix A & B with two bends of 9 bending radius of 103mm. The cable was positioned in the cable tray with a me				

Cable Classification				
Cable Description Product Code		Cable Group	Cable Classification	
3C + E (1.5mm <sup>2</sup> )	Ducab C BICC Electric Cable 0.6/1kV 3C + E × 1.5mm <sup>2</sup> (Design 2)	3	WS52W	

#### **Notes**

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TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd			
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EWFA Test Certificate No.	SFC49581300d.1 Page 1 of 1
Report Sponsor	Issue Date
Ducab PO Box 11529 Dubai United Arab Emirates	8/01/2018

#### Introduction

This test certificate is to verify the element of construction described below was tested by this laboratory on behalf of the test sponsor in accordance with the stated test standard and achieved the results stated below.

Referenced Reports	Report Date	Test Standard
EWFA 49581200d.2	8/01/2018	AS/NZS 3013:2005, Appendix A & B
EWFA Mech 49581300d.1	8/01/2018	AS/NZS 3013:2005, Appendix D & E

Description of Assessed Cable					
Cable Description	<ul> <li>Screened multicore cable comprising 2 cores, 0.75mm² conductor.</li> <li>Cable overall outer diameter of nominal 10.1mm.</li> <li>Test bending radius of cable: 81mm on the inside of the bend.</li> <li>Mechanical testing temperature range: -25°C to 110°C.</li> <li>Refer to the referenced reports for a full description of tested cable.</li> </ul>				
Cable Configuration	The cable was tested as a single cable for Appendix A & B with two bends of 90° at a bending radius of 81mm. The cable was positioned in the cable tray with a metallic cable tie fixing the cable to the tray at the centre of the two directional changes; otherwise plastic cable ties were used. Refer to the referenced test reports for a full description of cable configuration.				

Cable Classification						
Cable Description	Product Code	Cable Group	Cable Classification			
2C(0.75mm <sup>2</sup> )	Ducab C BICC Electric Cable 0.6/1kV 2C × 0.75mm <sup>2</sup> (Design 2)	4	WS51W			

#### Notes

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