



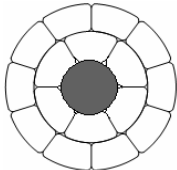
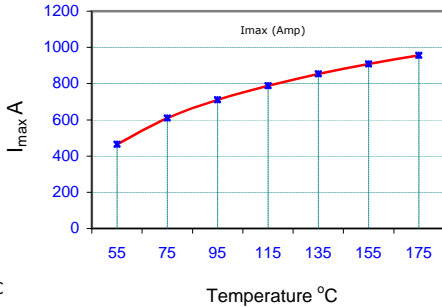
ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

TECHNICAL DATA SHEET



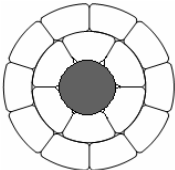
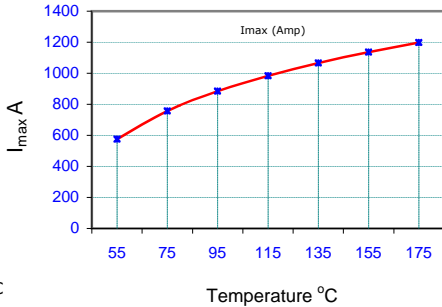
Midal Cables Ltd

Concentric Lay Stranded Trapezoidal Conductor : LINNET

Conductor Type & Code ACCC - Linnet (431 kcmil/219 mm ²)	
Nominal equivalent Aluminum Area	449.2 kcmil
Cross Sectional Area - Aluminum	435.48 kcmil
Cross Sectional Area - CTC Core	0.043 sq.in
Total Area of Cross Section- conductor	0.385 sq.in
Overall Diameter of Conductor	0.72 in
Mass per Unit length - Aluminum	410 lb/kft
Mass per Unit length - Core	36 lb/kft
Mass per unit length - Conductor	446 lb/kft
Rated Strength of the Conductor *	16370 lbf
Maximum DC Resistance at 20°C (68°F)	0.2073 Ω/mile
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand
Preferred Lay of outer layer 7.921 in	Surface finish Standard or Non Specular
	Max. single length /Drum 13480 ft (4110 m)
Stranding configuration	
No. & Diameter of CTC Core	1 x 0.235 in
No. of Aluminum Layers	2 N ^o
No. & equivalent Dia. of Trapezoidal wires in first layer	8 x 0.142 in
No. & equivalent Dia.of Trapezoidal wires in second layer	12 x 0.151 in
Individual Aluminum wires	Trapezoidal Wires
Minimum conductivity 63 %IACS	height 0.121 in.
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0159 sq.in
Composite Core	Layer-2 0.0179 sq.in
Conductivity Nil	
Rated Breaking Load 13579 lbf	
	
Coefficient of thermal expansion	Modulus of elasticity
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi
below thermal knee point 19.12 x10 ⁻⁶ /°C	below thermal knee point 10.69 Msi
Max. allowable continuous operating temp. (surface) 175 °C (347°F)	
Rated ampacity at max. temperature ^ 956 Amp.	
AC Resistance at max. operating temp. 0.3372 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^ 806 Amp.	
Calculated AC Resistance at 120 Deg.C 0.29129 Ω/mile	
Geometric Mean Radius(GMR) 0.28 in	
Inductive Reactance @1ft. radius at 60Hz 0.456 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz 0.10395 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5	
* Extreme Load Safety Strength of Conductor =14700 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)	
	



Concentric Lay Stranded Trapezoidal Conductor : HAWK

Conductor Type & Code ACCC - Hawk (611 kcmil/310 mm ²)	
Nominal equivalent Aluminum Area	630.2 kcmil
Cross Sectional Area - Aluminum	610.94 kcmil
Cross Sectional Area - CTC Core	0.062 sq.in
Total Area of Cross Section- conductor	0.541 sq.in
Overall Diameter of Conductor	0.857 in
Mass per Unit length - Aluminum	575 lb/kft
Mass per Unit length - Core	51 lb/kft
Mass per unit length - Conductor	626 lb/kft
Rated Strength of the Conductor *	23205 lbf
Maximum DC Resistance at 20°C (68°F)	0.1477 Ω/mile
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand
Preferred Lay of outer layer 9.432 in	Surface finish Standard or Non Specular
	Max. single length /Drum 8010 ft (2440 m)
Stranding configuration	
No. & Diameter of CTC Core	1 x 0.2799 in
No. of Aluminum Layers	2 N ^o
No. & equivalent Dia. of Trapezoidal wires in first layer	6 x 0.195 in
No. & equivalent Dia. of Trapezoidal wires in second layer	10 x 0.196 in
Individual Aluminum wires	Trapezoidal Wires
Minimum conductivity 63 %IACS	height 0.144 in.
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0298 sq.in
Composite Core	Layer-2 0.0301 sq.in
Conductivity Nil	
Rated Breaking Load 19290 lbf	
	
Coefficient of thermal expansion	Modulus of elasticity
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi
below thermal knee point 19.09 x10 ⁻⁶ /°C	below thermal knee point 10.7 Msi
Max. allowable continuous operating temp. (surface) 175 °C (347°F)	
Rated ampacity at max. temperature ^ 1197 Amp.	
AC Resistance at max. operating temp. 0.2406 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^ 1006 Amp.	
Calculated AC Resistance at 120 Deg.C 0.20793 Ω/mile	
Geometric Mean Radius(GMR) 0.334 in	
Inductive Reactance @1ft. radius at 60Hz 0.4348 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz 0.09877 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5	
* Extreme Load Safety Strength of Conductor =20860 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)	
	



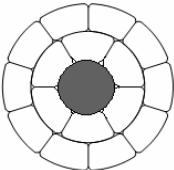
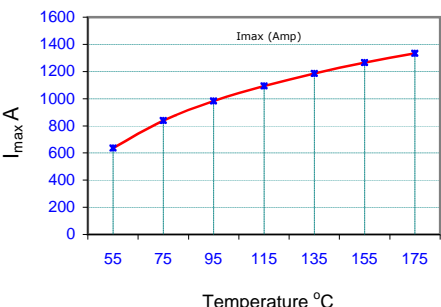
ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

TECHNICAL DATA SHEET



Midal Cables Ltd

Concentric Lay Stranded Trapezoidal Conductor : DOVE

Conductor Type & Code ACCC - Dove (713 kcmil/361 mm ²)																	
Nominal equivalent Aluminum Area	743.26 kcmil																
Cross Sectional Area - Aluminum	720.56 kcmil																
Cross Sectional Area - CTC Core	0.073 sq.in																
Total Area of Cross Section- conductor	0.639 sq.in																
Overall Diameter of Conductor	0.927 in																
Mass per Unit length - Aluminum	678 lb/kft																
Mass per Unit length - Core	58 lb/kft																
Mass per unit length - Conductor	736 lb/kft																
Rated Strength of the Conductor *	27504 lbf																
Maximum DC Resistance at 20°C (68°F)	0.1253 Ω/mile																
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand																
Preferred Lay of outer layer 10.199 in	Surface finish Standard or Non Specular																
	Max. single length /Drum 7480 ft (2280 m)																
Stranding configuration																	
No. & Diameter of CTC Core	1 x 0.3051 in																
No. of Aluminum Layers	2 N ^o																
No. & equivalent Dia. of Trapezoidal wires in first layer	7 x 0.196 in																
No. & equivalent Dia. of Trapezoidal wires in second layer	11 x 0.203 in																
Individual Aluminum wires	Trapezoidal Wires																
Minimum conductivity 63 %IACS	height 0.156 in.																
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0302 sq.in																
Composite Core	Layer-2 0.0322 sq.in																
Conductivity Nil																	
Rated Breaking Load 22887 lbf																	
																	
Coefficient of thermal expansion	Modulus of elasticity																
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi																
below thermal knee point 19.07 x10 ⁻⁶ /°C	below thermal knee point 10.7 Msi																
Max. allowable continuous operating temp. (surface) 175 °C (347°F)																	
Rated ampacity at max. temperature ^ 1333 Amp.																	
AC Resistance at max. operating temp. 0.2042 Ω/mile																	
Calculated max. ampacity at 120 Deg.C ^ 1119 Amp.																	
Calculated AC Resistance at 120 Deg.C 0.17649 Ω/mile																	
Geometric Mean Radius(GMR) 0.361 in																	
Inductive Reactance @1ft. radius at 60Hz 0.42532 Ω/mile																	
Capacitive Reactance @1ft. radius at 60Hz 0.09646 MΩ.mile																	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5																	
* Extreme Load Safety Strength of Conductor =24730 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)																	
	 <table border="1"> <caption>Imax (Amp) vs Temperature (°C)</caption> <thead> <tr> <th>Temperature (°C)</th> <th>Imax (Amp)</th> </tr> </thead> <tbody> <tr><td>55</td><td>600</td></tr> <tr><td>75</td><td>800</td></tr> <tr><td>95</td><td>1000</td></tr> <tr><td>115</td><td>1100</td></tr> <tr><td>135</td><td>1200</td></tr> <tr><td>155</td><td>1250</td></tr> <tr><td>175</td><td>1300</td></tr> </tbody> </table>	Temperature (°C)	Imax (Amp)	55	600	75	800	95	1000	115	1100	135	1200	155	1250	175	1300
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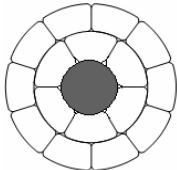
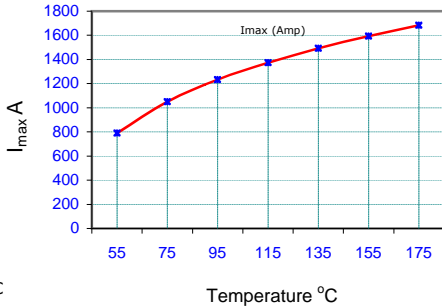
ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

TECHNICAL DATA SHEET



Midal Cables Ltd

Concentric Lay Stranded Trapezoidal Conductor : DRAKE

Conductor Type & Code ACCC - Drake (1020 kcmil/517 mm ²)	
Nominal equivalent Aluminum Area	1054.47 kcmil
Cross Sectional Area - Aluminum	1022.25 kcmil
Cross Sectional Area - CTC Core	0.111 sq.in
Total Area of Cross Section- conductor	0.913 sq.in
Overall Diameter of Conductor	1.108 in
Mass per Unit length - Aluminum	962 lb/kft
Mass per Unit length - Core	89 lb/kft
Mass per unit length - Conductor	1051 lb/kft
Rated Strength of the Conductor *	41128 lbf
Maximum DC Resistance at 20°C (68°F)	0.0883 Ω/mile
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand
Preferred Lay of outer layer 12.191 in	Surface finish Standard or Non Specular
	Max. single length /Drum 6360 ft (1940 m)
Stranding configuration	
No. & Diameter of CTC Core	1 x 0.3752 in
No. of Aluminum Layers	2 N ^o
No. & equivalent Dia. of Trapezoidal wires in first layer	8 x 0.219 in
No. & equivalent Dia. of Trapezoidal wires in second layer	14 x 0.213 in
Individual Aluminum wires	Trapezoidal Wires
Minimum conductivity 63 %IACS	height 0.183 in.
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0378 sq.in
Composite Core	Layer-2 0.0358 sq.in
Conductivity Nil	
Rated Breaking Load 34577 lbf	
	
Coefficient of thermal expansion	Modulus of elasticity
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi
below thermal knee point 18.86 x10 ⁻⁶ /°C	below thermal knee point 10.75 Msi
Max. allowable continuous operating temp. (surface) 175 °C (347°F)	
Rated ampacity at max. temperature ^ 1682 Amp.	
AC Resistance at max. operating temp. 0.1443 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^ 1405 Amp.	
Calculated AC Resistance at 120 Deg.C 0.1249 Ω/mile	
Geometric Mean Radius(GMR) 0.432 in	
Inductive Reactance @1ft. radius at 60Hz 0.40366 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz 0.09117 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5	
* Extreme Load Safety Strength of Conductor =37200 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)	
	



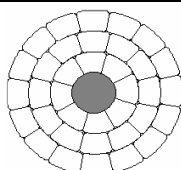
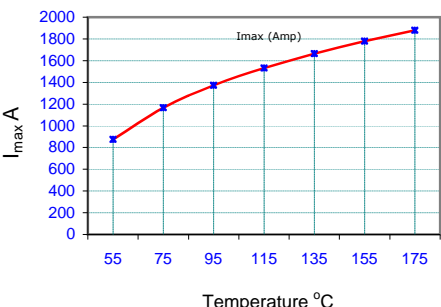
ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

TECHNICAL DATA SHEET



Midal Cables Ltd

Concentric Lay Stranded Trapezoidal Conductor : CARDINAL

Conductor Type & Code ACCC - Cardinal (1222 kcmil/619 mm ²)		
Nominal equivalent Aluminum Area	1266.53 kcmil	
Cross Sectional Area - Aluminum	1222.46 kcmil	
Cross Sectional Area - CTC Core	0.093 sq.in	
Total Area of Cross Section- conductor	1.054 sq.in	
Overall Diameter of Conductor	1.197 in	
Mass per Unit length - Aluminum	1155 lb/kft	
Mass per Unit length - Core	76 lb/kft	
Mass per unit length - Conductor	1231 lb/kft	
Rated Strength of the Conductor *	37083 lbf	
Maximum DC Resistance at 20°C (68°F)	0.0742 Ω/mile	
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand	
Preferred Lay of outer layer 13.17 in	Surface finish Standard or Non Specular	
	Max. single length /Drum 8790 ft (2680 m)	
Stranding configuration		
No. & Diameter of CTC Core	1 x 0.3449 in	
No. of Aluminum Layers	3 N ^o	
No. & equivalent Dia. of Trapezoidal wires in first layer	8 x 0.179 in	
No. & equivalent Dia. of Trapezoidal wires in second layer	12 x 0.184 in	
No. & equivalent Dia. of Trapezoidal wires in third layer	16 x 0.1867in	
Individual Aluminum wires	Trapezoidal Wires	
Minimum conductivity 63 %IACS	height 0.142 in.	
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0253 sq.in	
Composite Core	Layer-2 0.0267 sq.in	
Conductivity Nil	Layer-3 0.0274 sq.in	
Rated Breaking Load 29249 lbf		
		
Coefficient of thermal expansion	Modulus of elasticity	
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi	
below thermal knee point 19.90 x10 ⁻⁶ /°C	below thermal knee point 10.51 Msi	
Max. allowable continuous operating temp. (surface) 175 °C (347°F)		
Rated ampacity at max. temperature ^ 1880 Amp.		
AC Resistance at max. operating temp. 0.1217 Ω/mile		
Calculated max. ampacity at 120 Deg.C ^ 1567 Amp.		
Calculated AC Resistance at 120 Deg.C 0.10543 Ω/mile		
Geometric Mean Radius(GMR) 0.466 in		
Inductive Reactance @1ft. radius at 60Hz 0.39428 Ω/mile		
Capacitive Reactance @1ft. radius at 60Hz 0.08888 MΩ.mile		
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5		
* Extreme Load Safety Strength of Conductor =32380 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)		



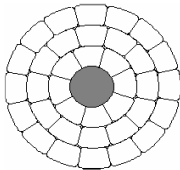
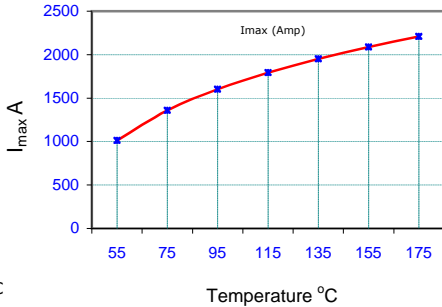
ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

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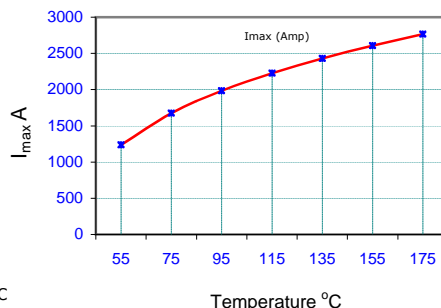
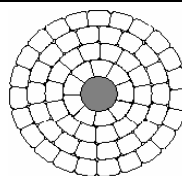
Concentric Lay Stranded Trapezoidal Conductor : BITTERN

Conductor Type & Code ACCC - Bittern (1572 kcmil/797 mm ²)	
Nominal equivalent Aluminum Area	1629.19 kcmil
Cross Sectional Area - Aluminum	1572.49 kcmil
Cross Sectional Area - CTC Core	0.093 sq.in
Total Area of Cross Section- conductor	1.328 sq.in
Overall Diameter of Conductor	1.345 in
Mass per Unit length - Aluminum	1486 lb/kft
Mass per Unit length - Core	76 lb/kft
Mass per unit length - Conductor	1562 lb/kft
Rated Strength of the Conductor *	39326 lbf
Maximum DC Resistance at 20°C (68°F)	0.0577 Ω/mile
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16	Lay Direction of outer layer Right Hand
Preferred Lay of outer layer 14.798 in	Surface finish Standard or Non Specular
	Max. single length /Drum 7020 ft (2140 m)
Stranding configuration	
No. & Diameter of CTC Core	1 x 0.3449 in
No. of Aluminum Layers	3 N ^o
No. & equivalent Dia. of Trapezoidal wires in first layer	8 x 0.199 in
No. & equivalent Dia. of Trapezoidal wires in second layer	12 x 0.209 in
No. & equivalent Dia. of Trapezoidal wires in third layer	18 x 0.2015in
Individual Aluminum wires	Trapezoidal Wires
Minimum conductivity 63 %IACS	height 0.167 in.
ASTM minimum Tensile Strength 8.5 ksi	Area : Layer-1 0.0312 sq.in
Composite Core	Layer-2 0.0343 sq.in
Conductivity Nil	Layer-3 0.0319 sq.in
Rated Breaking Load 29249 lbf	
	
Coefficient of thermal expansion	Modulus of elasticity
above thermal knee point 1.61 x10 ⁻⁶ /°C	above thermal knee point 17.2 Msi
below thermal knee point 20.51 x10 ⁻⁶ /°C	below thermal knee point 10.38 Msi
Max. allowable continuous operating temp. (surface) 175 °C (347°F)	
Rated ampacity at max. temperature ^ 2209 Amp.	
AC Resistance at max. operating temp. 0.0953 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^ 1835 Amp.	
Calculated AC Resistance at 120 Deg.C 0.08279 Ω/mile	
Geometric Mean Radius(GMR) 0.524 in	
Inductive Reactance @1ft. radius at 60Hz 0.38013 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz 0.08542 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5	
* Extreme Load Safety Strength of Conductor =33280 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)	
	



Concentric Lay Stranded Trapezoidal Conductor : CHUKAR

Conductor Type & Code		ACCC - Chukar (2242 kcmil/1136 mm ²)	
Nominal equivalent Aluminum Area		2336.1 kcmil	
Cross Sectional Area - Aluminum		2241.68 kcmil	
Cross Sectional Area - CTC Core		0.122 sq.in	
Total Area of Cross Section- conductor		1.883 sq.in	
Overall Diameter of Conductor		1.602 in	
Mass per Unit length - Aluminum		2131 lb/kft	
Mass per Unit length - Core		99 lb/kft	
Mass per unit length - Conductor		2230 lb/kft	
Rated Strength of the Conductor *		52720 lbf	
Maximum DC Resistance at 20°C (68°F)		0.0407 Ω/mile	
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16		Lay Direction of outer layer Right Hand	
Preferred Lay of outer layer 17.622 in		Surface finish Standard or Non Specular	
		Max. single length /Drum 7550 ft (2300 m)	
Stranding configuration			
No. & Diameter of CTC Core		1 x 0.3949 in	
No. of Aluminum Layers		4 N ^o	
No. & equivalent Dia. of Trapezoidal wires in first layer		8 x 0.196 in	
No. & equivalent Dia. of Trapezoidal wires in second layer		12 x 0.199 in	
No. & equivalent Dia. of Trapezoidal wires in third layer		16 x 0.2008in	
No. & equivalent Dia. of Trapezoidal wires in fourth layer		20 x 0.2018in	
Individual Aluminum wires		Trapezoidal Wires	
Minimum conductivity	63 %IACS	height	0.151 in.
ASTM minimum Tensile Strength	8.5 ksi	Area : Layer-1	0.0301 sq.in
Composite Core		Layer-2	0.0311 sq.in
Conductivity	Nil	Layer-3	0.0317 sq.in
Rated Breaking Load	38354 lbf	Layer-4	0.032 sq.in
Coefficient of thermal expansion		Modulus of elasticity	
above thermal knee point 1.61 x10 ⁻⁶ /°C		below thermal knee point 10.34 Msi	
below thermal knee point 20.69 x10 ⁻⁶ /°C			
Max. allowable continuous operating temp. (surface)		175 °C (347°F)	
Rated ampacity at max. temperature ^		2766 Amp.	
AC Resistance at max. operating temp.		0.0685 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^		2283 Amp.	
Calculated AC Resistance at 120 Deg.C		0.05978 Ω/mile	
Geometric Mean Radius(GMR)		0.624 in	
Inductive Reactance @1ft. radius at 60Hz		0.35893 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz		0.08024 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5			
* Extreme Load Safety Strength of Conductor =44100 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)			





ENERGY EFFICIENT HIGH CURRENT OH CONDUCTORS

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Midal Cables Ltd

Concentric Lay Stranded Trapezoidal Conductor : BLUEBIRD

Conductor Type & Code		ACCC - Bluebird (2727 kcmil/1382 mm ²)	
Nominal equivalent Aluminum Area		2841.44 kcmil	
Cross Sectional Area - Aluminum		2726.6 kcmil	
Cross Sectional Area - CTC Core		0.135 sq.in	
Total Area of Cross Section- conductor		2.277 sq.in	
Overall Diameter of Conductor		1.762 in	
Mass per Unit length - Aluminum		2592 lb/kft	
Mass per Unit length - Core		110 lb/kft	
Mass per unit length - Conductor		2702 lb/kft	
Rated Strength of the Conductor *		59807 lbf	
Maximum DC Resistance at 20°C (68°F)		0.0334 Ω/mile	
Lay ratio - Outer layer of Aluminum wires : Min.10 Max.13 - Inner layer of Aluminum wires : Min.10 Max.16		Lay Direction of outer layer Right Hand	
Preferred Lay of outer layer 19.38 in		Surface finish Standard or Non Specular	
		Max. single length /Drum 7020 ft (2140 m)	
Stranding configuration			
No. & Diameter of CTC Core		1 x 0.415 in	
No. of Aluminum Layers		4 N ^o	
No. & equivalent Dia. of Trapezoidal wires in first layer		9 x 0.201 in	
No. & equivalent Dia. of Trapezoidal wires in second layer		14 x 0.203 in	
No. & equivalent Dia. of Trapezoidal wires in third layer		18 x 0.2091in	
No. & equivalent Dia. of Trapezoidal wires in fourth layer		23 x 0.2083in	
Individual Aluminum wires		Trapezoidal Wires	
Minimum conductivity	63 %IACS	height	0.168 in.
ASTM minimum Tensile Strength	8.5 ksi	Area : Layer-1	0.0319 sq.in
Composite Core		Layer-2	0.0323 sq.in
Conductivity	Nil	Layer-3	0.0343 sq.in
Rated Breaking Load	42334 lbf	Layer-4	0.0341 sq.in
Coefficient of thermal expansion		Modulus of elasticity	
above thermal knee point	1.61 x10 ⁻⁶ /°C	above thermal knee point	17.2 Msi
below thermal knee point	20.88 x10 ⁻⁶ /°C	below thermal knee point	10.3 Msi
Max. allowable continuous operating temp. (surface)		175 °C (347°F)	
Rated ampacity at max. temperature ^		3126 Amp.	
AC Resistance at max. operating temp.		0.0572 Ω/mile	
Calculated max. ampacity at 120 Deg.C ^		2568 Amp.	
Calculated AC Resistance at 120 Deg.C		0.05022 Ω/mile	
Geometric Mean Radius(GMR)		0.686 in	
Inductive Reactance @1ft. radius at 60Hz		0.34739 Ω/mile	
Capacitive Reactance @1ft. radius at 60Hz		0.07743 MΩ.mile	
^ Ampacity calculated at 25 Deg.C ambient, wind velocity 2ft/sec solar radiation: 93W/sq.ft emissivity coefficient: 0.5 & absorptivity: 0.5			
* Extreme Load Safety Strength of Conductor =49320 lbf (Applicable if sustained load over 80% RTS expected for prolonged periods. For further information please refer to ACCC Technical note TN-750-001.)			

