TECHNICAL DATA SHEET	Lite	HVCRC® Lite (AL0) 530 - 71 Epsilon Advanced Conductors	EPSILON CABLE
International size	**DUBLIN**		
ASTM Size	**DRAKE**		
Technical designation	ECRC® 530-AL0/71-L0		



Governing Units: Metric

CONDUCTOR PROPERTIES		
Cross Sectional Area - Annealed Aluminium	524.8	mm²
Cross Sectional Area - HVCRC Core	71.3	mm²
Total Area of Conductor Cross Section	596.1	mm²
Nominal equivalent Aluminium Area (1350-H19 at 61%IACS)	542.0	mm²
Overall Diameter of Conductor	28.17	mm
No. & Diameter of the core	1 x 9.53	mm
Mass per unit length - Annealed Aluminium	1,451.0	kg/km
Mass per unit length - Core	134.1	kg/km
Mass per unit length - Conductor	1,585.1	kg/km
Ultimate Tensile Strength of Conductor	183.9	kN
Core Rated Tensile Strength	152.4	kN
Coefficient of Linear Expansion **Above** Thermal Kneepoint	1.6	10^{-6} K^{-1}
Coefficient of Linear Expansion **Below** Thermal Kneepoint	18.36	10^{-6} K^{-1}
Final Modulus of Elasticity **Above** Thermal Kneepoint	112	GPa
Final Modulus of Elasticity **Below** Thermal Kneepoint	62	GPa
THERMAL SPECIFICATIONS		
Maximum Continuous Operating Temperature (surface temperature)	110	°C
Maximum Emergency Temperature (surface temperature)	115	°C
Thermal Heat Capacity for Annealed Aluminium Layers	1,385.7	W.s/m.°C
Thermal Heat Capacity for Composite Core	107.3	W.s/m.°C
ELECTRICAL SPECIFICATIONS		
Maximum DC Electrical Resistance at 20°C	0.0533	Ω.km^{-1}
Temperature Coefficient of Resistance	4.03	10^{-3} K^{-1}
AC Nominal Resistance at 25°C (surface temperature)	0.0559	Ω.km^{-1}
AC Nominal Resistance at 75°C (surface temperature)	0.0664	Ω.km^{-1}
AC Nominal Resistance at 110°C (surface temperature)	0.0737	Ω.km^{-1}
AC Nominal Resistance at 115°C (surface temperature)	0.0748	Ω.km^{-1}
AC Current Rating at 110°C (surface temperature)[1]	1,394	A
AC Current Rating at 115°C (surface temperature)[1]	1,433	A
Geometric Mean Radius (GMR)	11.46	mm

(1) Ampacity calculations based on IEEE Standard 738-2012, according to the following data:

25 °C ambient temperature, — *0.61 m/s wind velocity with an angle of 90 °,*

1000 W/m² solar radiation, — *0.5 solar absorption coefficient,*

0.6 emissivity coefficient, — *Resistance AC at 50 Hz current frequency.*

Core properties tested as per methods of ASTM B987/IEC 62818-1

Reference standards for electrical specifications: IEC 62219.

Reference standards for stranding parameters: ASTM B779/IEC 62219.

Depending on conductor manufacturer rated specifications may slightly change.

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