TECHNICAL DATA SHEET	Lite	HVCRC® Lite (AL0) 370 - 47 Epsilon Advanced Conductors	EPSILON CABLE
International size	**AMSTERDAM**		
ASTM Size	**DOVE**		
Technical designation	ECRC® 370-AL0/47-L0		



Governing Units: Metric

CONDUCTOR PROPERTIES		
Cross Sectional Area - Annealed Aluminium	369.0	mm²
Cross Sectional Area - HVCRC Core	47.2	mm²
Total Area of Conductor Cross Section	416.1	mm²
Nominal equivalent Aluminium Area (1350-H19 at 61%IACS)	381.0	mm²
Overall Diameter of Conductor	23.55	mm
No. & Diameter of the core	1 x 7.75	mm
Mass per unit length - Annealed Aluminium	1,020.0	kg/km
Mass per unit length - Core	88.7	kg/km
Mass per unit length - Conductor	1,108.7	kg/km
Ultimate Tensile Strength of Conductor	122.9	kN
Core Rated Tensile Strength	100.8	kN
Coefficient of Linear Expansion **Above** Thermal Kneepoint	1.6	10^{-6} K^{-1}
Coefficient of Linear Expansion **Below** Thermal Kneepoint	18.58	10^{-6} K^{-1}
Final Modulus of Elasticity **Above** Thermal Kneepoint	112	GPa
Final Modulus of Elasticity **Below** Thermal Kneepoint	61	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	974.1	W.s/m.°C
Thermal Heat Capacity for Composite Core	70.9	W.s/m.°C
ELECTRICAL SPECIFICATIONS		
Maximum DC Electrical Resistance at 20°C	0.0759	Ω.km^{-1}
Temperature Coefficient of Resistance	4.03	10^{-3} K^{-1}
AC Nominal Resistance at 25°C (surface temperature)	0.0785	Ω.km^{-1}
AC Nominal Resistance at 75°C (surface temperature)	0.0936	Ω.km^{-1}
AC Nominal Resistance at 110°C (surface temperature)	0.1042	Ω.km^{-1}
AC Nominal Resistance at 115°C (surface temperature)	0.1057	Ω.km^{-1}
AC Current Rating at 110°C (surface temperature)[1]	1,112	A
AC Current Rating at 115°C (surface temperature)[1]	1,142	A
Geometric Mean Radius (GMR)	9.57	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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