



 **CABLEL<sup>®</sup>**

**HELLENIC CABLES**

GROUP OF COMPANIES

Enamelled Aluminium Wires



# HELLENIC CABLES

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The HELLENIC CABLES Group of Companies, with four manufacturing plants in Greece, one in Bulgaria and one in Romania, is a leading manufacturer of cables for over sixty years, and is the sole producer of XLPE insulated HV / EHV underground power and optical fibre cables, as well as of aluminium and copper enamelled wires, in Greece. MV & HV submarine cables are produced by FULGOR S.A. which is the Group's latest member. Wires and cables can be supplied to a variety of international standards such as: IEC standard, VDE, CEI, NF, SEN, BS, UL, NEMA, JIS, ASTM, DIN and ELOT. Many of the company's products are certified by ELOT, BASEC, VDE, IMQ, NF-USE, NETWORK RAIL, KEMA, DNV and UL. The company's wide range, is sold internationally under the CABLEL trademark.

All CABLEL® enamelled copper and aluminium wires are manufactured and tested to the IEC 60317-0-1 for enamelled round copper wire and IEC 60317-0-3 for enamelled round aluminium wire. Customers may also request any other recognized international standard.

Technical know-how from world leaders such as VISCAS Corporation, combines with continual investment in state-of-the-art machinery, to ensure levels of efficiency and quality which meet the strictest standards. The company's Quality Management System is certified to ISO 9001:2008 and its Environmental Management System to ISO 14001:2004. Commitment to quality and sustainable development principles, has been a key factor in enabling HELLENIC CABLES to establish a strong market position internationally. The company's highly experienced technical and managerial staff, have a strong commitment to technological excellence and outstanding quality, which ensures that the user of CABLEL® products has made a **reliable choice.**

## Enamelled Wires



## Power Cables



## Power Cables



## Telecommunication Cables



## Rubber and Plastic Compounds





# MEDIOTHERM - 200®AL

## Enamelled Aluminium Wires

PROPERTIES	ALUMINIUM
<b>STANDARDS</b>	IEC 60317-0-3 IEC 60317-25 NEMA MW 73-A, MW 35-A
<b>INSULATION COATINGS</b>	MODIFIED POLYESTER (IMIDE) WITH POLYAMIDE-IMIDE OVERCOAT
<b>AVAILABILITY</b>	1,50-5,00mm L-2L
<b>MECHANICAL PROPERTIES</b>	FOR 3,00mm
ELONGATION	>24%
ADHERENCE-FLEXIBILITY	EXCELLENT
<b>ELECTRICAL PROPERTIES</b>	
BREAKDOWN VOLTAGE	GR 1 >3,0 kV GR 2 >5,0 kV
<b>THERMAL PROPERTIES</b>	
TEMPERATURE INDEX	200°, 210°
HEAT SHOCK	220°
<b>CHEMICAL PROPERTIES</b>	
SOLVENT TEST	5H
RESISTANCE TO TRANSFORMER OIL	VERY GOOD

INSULATION CLASSIFICATIONS ACCORDING TO IEC			
Class	Temperature		Type
	°C	°F	
E	120°	248	ADOMIN®
B	130°	266	ENOFLEX-B®
F	155°	311	ENOFLEX-F®
H	180°	356	ENOFLEX 180®
H	180°	356	ENOFLEX-H®
H	180°	356	IDIOTHERM®
200	200°	392	MEDIOTHERM® *
200	200°	428	POLITHERM®
H	180°	356	ENOBOND 180®
H	180°	356	IDIOBOND®
200	200°	392	MEDIOBOND 200®

### Applications

Electric motor / generator.  
Dry or oil-immersed transformers.

The insulating materials are subdivided according to IEC standards into insulating classes showing the corresponding maximum working temperature that must not be exceeded at any point of the winding.

The table above outlines the recognized insulation classifications.



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