

WIRES - CABLES

BASIC PRODUCT RANGE
CATALOGUE



HELLENIC CABLES S.A.
HELLENIC CABLE INDUSTRY S.A.

FULGOR S.A.
HELLENIC CABLE INDUSTRY

ICME ECAB S.A.
CABLE INDUSTRY

 **CABLEL[®]**
HELLENIC CABLES
G R O U P

Submarine & Power Cables ●



Power Cables ●



Telecommunication & Data Cables ●



Rubber & Plastic Compounds ●



Enamelled Wires ●



CABLEL®

HELLENIC CABLES

G R O U P

With a wide portfolio of reliable and competitive cable solutions for international customers, the Cablel Hellenic Cables Group is one of the largest cable producers in Europe. The Group manufactures power, telecommunication and submarine cables, as well as enamelled wires and compounds.

The Cablel Hellenic Cables Group represents the cable production and marketing sector of Viohalco SA. The Company started its activities in 1950 as a Viohalco plant and in 1973 was incorporated as an independent subsidiary under the name Hellenic Cables, expanding its production and trade operations. Today, the Cablel Hellenic Cables Group consists of Hellenic Cables S.A. which operates three plants in Viotia, Greece that produce cables, enamelled wires and plastic and elastomer compounds; the Fulgor S.A. plant in Corinth, Greece, which manufactures power cables, power and fibre optic submarine cables and copper wires; Icme Ecab S.A., a power and telecommunication cable manufacturer in Bucharest, Romania and Lesco Ltd Blagoevgrad, Bulgaria which manufactures wooden reels and pallets.

With a strong export orientation and focus on development of value added products, such as high and extra-high voltage cables and submarine cables, the Group implements significant investments towards enriching its product portfolio and enhancing its sustainability profile. The Company implemented a EUR 60 million approximately investment plan for the manufacture of high-voltage submarine cables in Fulgor's plant.

The Company's wide product range, which is sold internationally under the Cablel® trademark, extends to PVC, EPR and XLPE insulated power cables (rated up to 500kV), marine and low smoke halogen free cables, fire resistant cables, telecommunication, signal and data cables with copper conductors or optical fibres, as well as fire retardant halogen free plastic and elastomer compounds and enamelled wires. Wires and cables are supplied to a variety of international standards, such as VDE, CEI, ICEA, NF, SEN, BS, UL, NEMA, JIS, ASTM, DIN and ELOT. Many of the Company's products are certified by BASEC, VDE, IMQ, NF-USE, NETWORK RAIL, KEMA, DNV and UL.

All Cablel® enamelled wires are manufactured and tested to the IEC 60317-0-1 standard; customers may also request any other recognised international standard.

Technical know-how is combined 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, its Environmental Management System to ISO 14001:2004 and its Occupational Health and Safety to OHSAS 18001:2007. Cablel Hellenic Cables Group has the necessary expertise to develop and offer turnkey solutions that meet specific demands of its customers.

Commitment to quality and sustainable development has been a key factor in enabling Cablel Hellenic Cables Group to establish a strong market position internationally.

The Company's highly experienced technical and managerial staff have a strong commitment to innovation, technological excellence and outstanding quality, which ensures that users of Cablel® products have made a reliable choice.

The Cablel Hellenic Cables Group aims to constantly improve its offering and respond swiftly to changes in customer requirements around the world with reliable and safe products, based on environmentally-friendly technologies. At the same time, the Group places strong emphasis on the development of its people and the creation of value for its shareholders, partners and the communities in which it operates. Looking ahead, the Group plans additional investments in technology and innovative cable solutions, as a way of contributing to the creation of a sustainable future for its stakeholders.



BASIC PRODUCT RANGE

H03VH-H	H05VV-R	H07V-U	FG7QR	NYIFY-O	N07V-K	H05RN-F
H03VV-F	H05V-U	H07V-R	FROR	NYIFY-J	TWIN FLAT	H05RR-F
H05VV-U	H05V-K	H07V-K	H05VV-5F	NYM	TRIPLE FLAT	EPR/CSP

H07RN-F	H07RNB-F	NSSHou	NYCWY	PVC/PVC/SWA/PVC	XLPE/LSF/SWA/LSF
H01N2-D	NAYY	NTSWou	N1VV-K	XLPE/PVC	U-1000 R2V
H01N2-E	NSGAFou	NYCY	NYV	XLPE/PVC/SWA/PVC	2VSLCY

N2XSX	XLPE/CWS/PVC	XLPE/CTS/PVC/AWA/PVC
N2XS2Y	XLPE/CWS/PE	XLPE/CTS/PVC/SWA/PVC
N2XS(FL)2Y	XLPE/CWS/LSF	XLPE/CTS/LSF/AWA/LSF
NA2XSX	NTSCGEWou	XLPE/CTS/LSF/SWA/LSF
NA2XS2Y		
N2XSH		

XLPE/CWS/ALSH*/PE	XPPE/CWS/APL**/PE	XPPE/PB/PVC or PE
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*ALSH: Smooth or corrugated welded aluminium sheath

**APL: Protection against radial penetration of water by use of AL foil bonded to PE outer sheath

MEDIUM VOLTAGE

HIGH / EXTRA HIGH VOLTAGE ER/SR

OPTIC CABLES

N2XCH	N2XH FE 180 E30	NHXH FE 180 E90
N2XCH FE 180	NHXH FE 180 E30	NHXMH 300/500V
N2XH	NHXH FE 180 E30	XLPE/LSF/SWA/LSF

XLPE/SHF1-HF	EPR/SHF1-HF	EPR/CWB/SHF1-HF	MGGG
XLPE/SHF1-FRHF	EPR/SHF1-FRHF	EPR/CWB/SHF1-FRHF	MGG
XLPE/CWB/SHF1-HF	EPR/CSP/GSWB/CSP		EPR/CSP
XLPE/CWB/SHF1-FRHF			

Telephone - signaling - control - data transmission

EPR/PCP	ZPAU	A-2Y(ST)YBY	AJ-2YDYBY	AJ-H(ST)HBH
EPR/ZHLS	ZPFU	A-H(ST)HBH	AJ-2Y(ST)YBY	AJ-HDHBH
				A2YY

H.D. CU	AAAC	ACSS
AAC	ACSR	ACSS/TW

INSULATION CLASSIFICATIONS ACCORDING TO IEC 60317-0-1

CATEGORY	TEMPERATURE °C	TEMPERATURE °F	TYPE
F	155°	311	ENOFLEX-F
H	180°	356	ENOFLEX 180°
H	180°	356	ENOFLEX-H°
200	200°	392	MEDIOTHERM°
220	220°	428	POLITHERM°
H	180°	356	ENOBOND 180°
H	180°	356	IDIOBOND°
200	200°	392	MEDIOBOND 200°



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HELLENIC CABLE INDUSTRY S.A.

FULGOR S.A.
HELLENIC CABLE INDUSTRY

ICME ECAB S.A.
C A B L E I N D U S T R Y

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CABLEL HELLENIC CABLES GROUP OF COMPANIES PRODUCTION FACILITIES:

HELLENIC CABLES S.A.:

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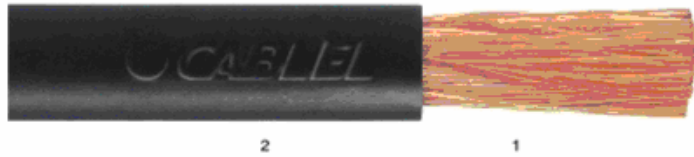
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**CABLURI PENTRU INSTALATII FIXE CU
CONDUCTOR DE CUPRU, CU IZOLATIE
DE PVC FARA MANTA**



1. Conductor flexibil de cupru
2. Izolatie de PVC

**TIP CABLU:
TENSIUNE NOMINALA:
STANDARD DE PRODUS:**

**H07V-K
450/750V
HD 21.3 – BS: 6004**

UTILIZARE

In conducte (tuburi) pe/sub tencuiala . In echipamente, panouri de comanda si distributie, pentru instalatii fixe de interior, pentru iluminat.

COD DE CULORI

NUMAR CONDUCTOARE: 1	VERDE/GALBEN, ALBASTRU, NEGRU, MARO, GRI, ORANJ, ROZ, ROSU, TURCOAZ, VIOLET si ALB
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NUMAR DE CONDUCTOARE x SECTIUNEA NOMINALA No, x mm ²	DIAMETRU EXTERIOR (APROX) mm	GREUTATE NETA (APROX) Kg/Km	REZISTENTA ELECTRICA MAXIMA LA 20°C Ω/Km	SARCINA ADMISIBILA A	CADERE DE TENSIUNE	
					1 FAZA mV/A/m	3 FAZE mV/A/m
1X1,5	3,4	20	13,3	16	29	25
1X2,5	4,1	32	7,98	20	18	15
1X4	4,8	48	4,95	26	11	9,5
1X6	5,3	65	3,30	34	7,3	6,4
1X10	6,8	120	1,91	46	4,4	3,8
1X16	8,1	175	1,21	61	2,8	2,4
1X25	10,2	270	0,780	80	1,75	1,5
1X35	11,7	370	0,554	99	1,25	1,11
1X50	13,9	500	0,386	119	0,95	0,82
1X70	16,0	700	0,272	151	0,66	0,57
1X95	18,2	955	0,206	182	0,50	0,43
1X120	20,2	1180	0,161	210	0,41	0,36
1X150	22,5	1460	0,129	240	0,34	0,30
1X185	24,6	1840	0,106	273	0,28	0,26
1X240	28,4	2400	0,0801	320	0,25	0,22

Nota : Sarcinile admisibile sunt calculate pentru o temperatura a mediului ambiant de 30°C. Pentru alte temperaturi ale mediului ambiant factorul de corectie este :

Temperatura aerului °C	15	20	25	30	35	40	45	50
Factor de corectie	1,17	1,12	1,06	1,0	0,94	0,87	0,79	0,71