

IEC-364 Cable-Calculation Program LTE+

Since 1985, INTELEC has been further specialized in cable calculations according the IEC-364. Recently the LTE+ version of the professional program IEC-364 is launched with the following specifications:

main-dialog IEC-364 LTE

The screenshot displays the 'calculation module IEC-60364 (5) LTE+' interface. The 'Library' tab is active, showing a circuit diagram with a gG80A breaker, a 41.3A load, and a motor. Below the diagram, input fields are set to: Uf=230, Protection=gG80A, sw=2, Conductors=EMC-kabel 3x10 mm2, Length=22, kW=22.0, cos-phi=0.84, SMT=1.00. The results table is as follows:

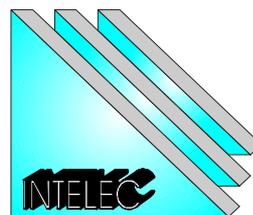
Cs = Core size [mm ²]	->	3x10<-6	Voltage losses UV =	2.8V = 0.69% [22m]
Maximal load current IZ [A]	=	75.0	Reserved power P [kVA]	= 23.3
Rated current IB [A]	=	41.3	Power losses PL [W]	= 228.3
Protection IN [A]	=	80	Shortcircuit current IK [A]	= 886.7
Max. load table 8.53Z IZ> [A]	=	n.v.t.	Shortcircuit power PK [kVA]	= cNet
Max. length (shortcirc) LK [m]	=	47	Temperature Tn [gC]	= 48
Max. length (volt.loss) LM [m]	=	47	price per meter PR [Euro]	= 21.80
Max. voltage losses UM [V]	=	5.9	Tables	52-C11k3/52-D1/52-E1/53Z

General characteristics :

- in conformity with IEC-364
- graphic reproduction of the methods
- input IBth, IN, kVA or kW
- deviant tensions and frequencies
- fuses according type IEC-269
- circuit breakers type B, C and D
- adjusted frequency
- power-factor and simultaneously
- expanded projects-manager
- database bushbars
- cable management (collections)
- module CAD-plan (NEN-5152)
- integration with IS-CableNet
- extended professional report
- expanded documentation + Help

The standard version IEC-364 LTE+

The LTE+ version consists of the module for shunts, the module 3-phase-motors and the various adjustments, like reduced conductors. LTE is available from 280 Euro and LTE+ from 560 Euro exclusive modules (see next page).



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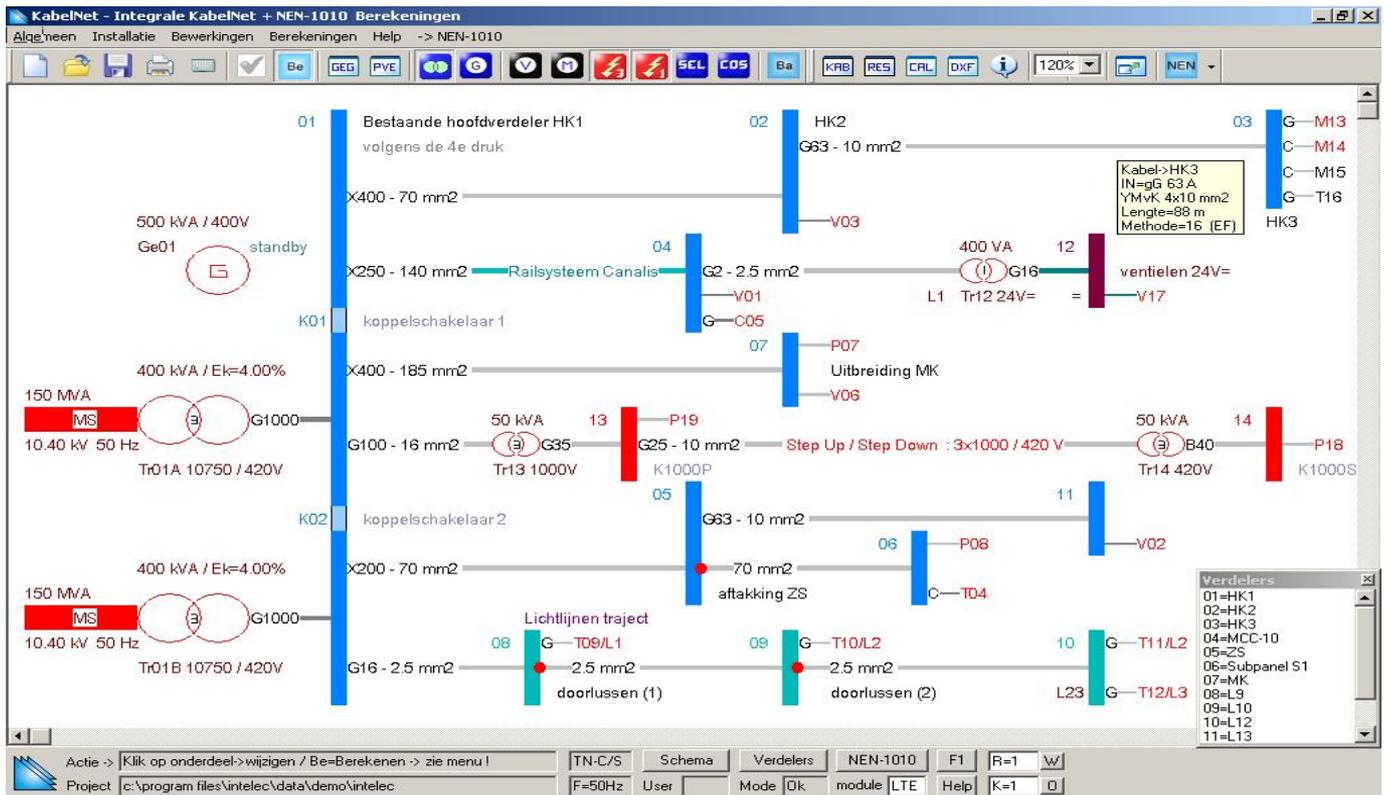
Instruction-video's

The instruction-video's explain all of the possibilities of the application and are also delivered on the CD-ROM.



Integral IEC-364 CableNet Program LTE

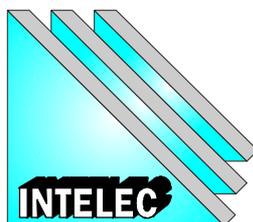
In cooperation with the energy company NUON, INTELEC has developed an unique IEC-364 cable Network calculations program for advanced integral cable-networks. The program consists of extensive data bases: Transformers (IEC-2761/2765) Cables (IEC-228), Bushbar-systems (IEC-439-2), Fuses (IEC-269) and (factory-dependent) circuit-breakers (IEC-898/947-2). The software has specific been developed for the design and management of complete electrical installations.



The integrated program has the possibility for defining the network in a fast and efficient way. With connections and collections the installation can be extended. After the input the integral calculations can be exported and advanced reports can be generated. Critical parts of the installation can be selected and focused. With the help of the available data-bases the engineer can also quickly generate new alternatives. The program now has become an indispensably tool for every electrical engineer.

Integral Calculations

- Short-circuit calculations (kA)
- Cumulative Voltage losses
- 1-Phase Touch Voltage
- Voltage Drop Startup Motors
- Power factor compensation
- Analysis selectivity
- Asymmetric Power analysis



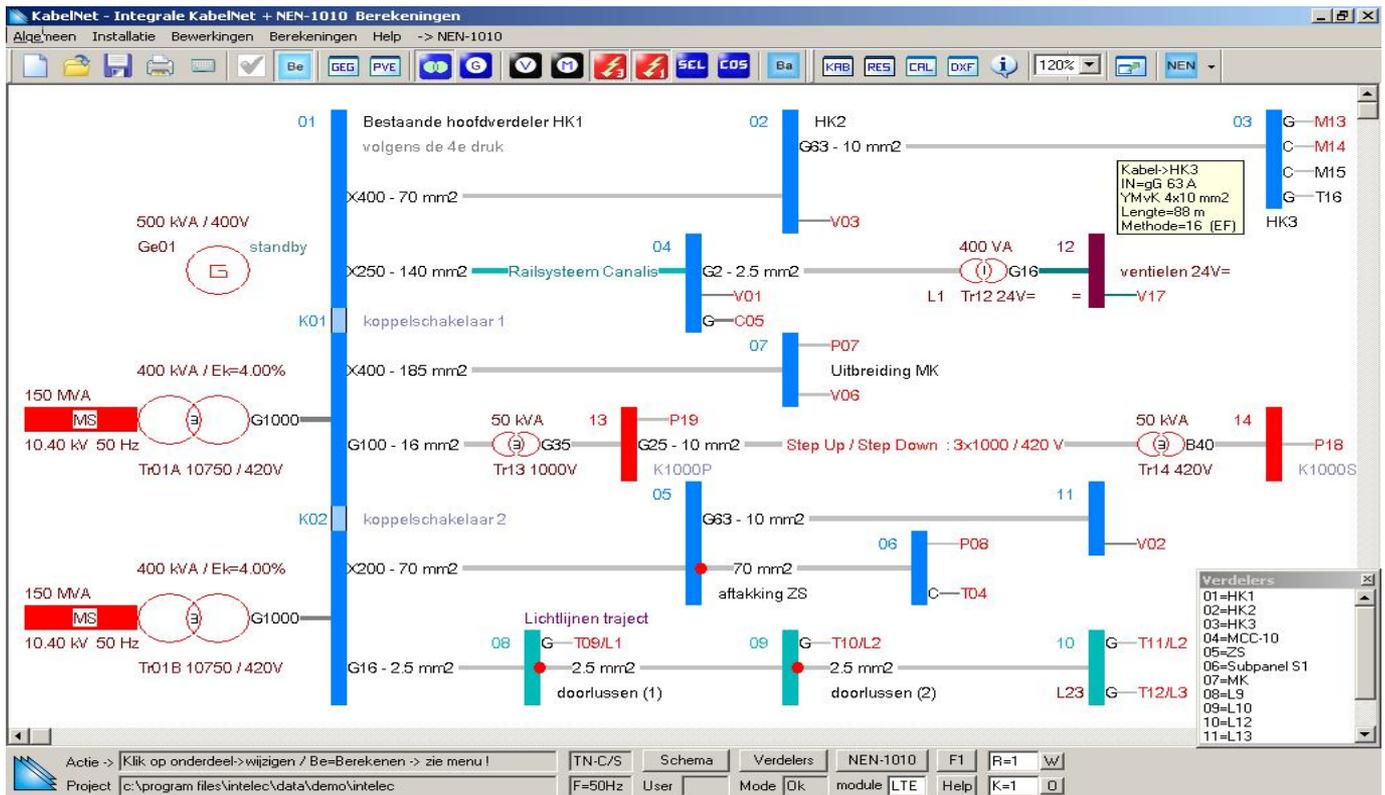
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Price information exclusive (network) dongle Euro

basic program IEC-364	280,-	
module LTE graphics library	75,-	
module characteristics + circ. breakers	145,-	
module collections + CAD-scheme	130,-	
module earth + neutral-current	85,-	715,-
basic program IS-CableNet integral	820,-	
module touch-voltage	115,-	
module selectivity	55,-	990,-
total price IS-CableNet + IEC-364 LTE		1705,-
discount for the total program 22 %	-/	380,-
Special integrated total price LTE	Euro	1325,-

Integral IEC-364 CableNet Program LTE +

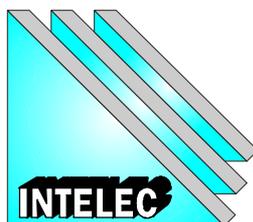
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Price information exclusive (network) dongle Euro

basic program IEC-364 +	560,-
module LTE+ graphics library	150,-
module characteristics + circ. breakers	145,-
module collections + CAD-scheme	130,-
module earth + neutral-current	85,-
basic program IS-CableNet integral	1070,-
module touch-voltage + shunts	160,-
module selectivity + startup motors	110,-
	1090,-

total price IS-CableNet + IEC-364 LTE + 2160,-
 discount for the total program 23 % -/ 460,-

Special integrated total price LTE+ Euro 1700,-