



C/Estación s/n
17457-Riudellots de la Selva (Girona-Spain)
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SPECIFICATIONS OF ENAMELLED COPPER WIRES

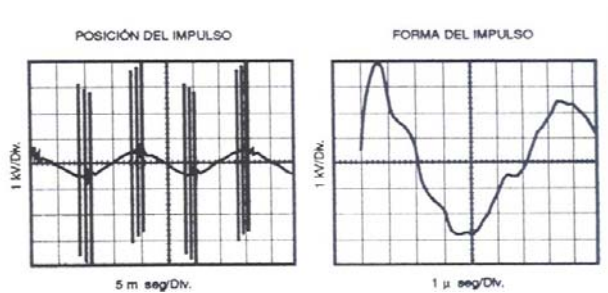
SPECIFICATIONS

“IBERFIL HC AF”

Thermal class	H-200
Base coat	Polyester-imide or Polyester-imide filled with nanoparticules, special corona effect
Overcoat	Polyamide-imide or Polyamide-imide filled with mineral fillers, special for inverter driven motors
Temperature index 20.000 h.	200
Intersection point Tang. Delta	>180°C
Heat shock	220°C 30 min
Cut-through	350°C 2 min
Breakdown voltage	180 V/μm.
Continuity of insulation	0-2 faltas / 30 m
Flexibility and adherence	5 % 1d
Abrasion bidirectional	100
Abrasion unidirectional	20 gr/μm.
Resistance to solvents	4H

Description of the test of control of resistance to corona effect

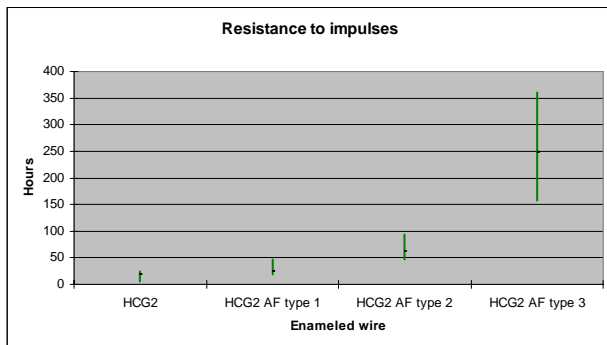
It does not exist any IEC norm to check this property. Test developed by Acebsa and used at Acebsa to evaluate this special property



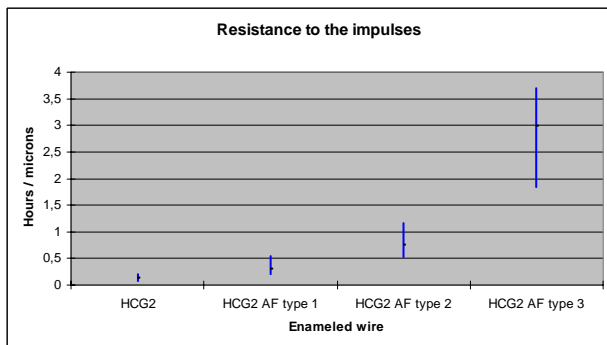
Test conditions:
 Impulses: 4 kV.
 Impulses length: 0,75 μsec.
 Temperature of ageing : 180°C

Comparison wires HC G2 and HC AFG2

The ageing of the wire in those conditions is measured (hours before short circuit) and the result is indicated en function of the thickness of enamel applied on the conductor using the test described above



- 1.- Enamelled copper wire HC G2
- 2-. Enamelled copper wire HC AF G2
- 3-. Enamelled copper wire HC AF G2
- 4-. Enamelled copper wire HC AF G2



- 1.- Enamelled copper wire HC G2
- 2-. Enamelled copper wire HC AF G2
- 3-. Enamelled copper wire HC AF G2
- 4-. Enamelled copper wire HC AF G2



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MAIN APLICATION AREAS:

**Motor driven by inverter
Winding under high frequency impulses.**

STANDARDS:

**IEC 60317-0-1 and 60317-13
UNE - EN 60.317-13
DIN 46.416-7
NEMA MW-35-C
UTE NF C 31.663**

HOMOLOGATIONS:

DIAMETER RANGE:

0.45 mm – 2.20 mm