

Definition

Technical definition: H07Z-R

Voltage rating: 450/750 V



Max. operative temperature:

permanent service: **90°C**

short-circuit (5 s.): **250°C(1)**

(1) In case of joints by soft weld or terminals, the temperatures limit for conditions of short circuits are reduced to 160°C.



Voltage test: H07Z-R-----2500 V (15 min.)

Constructive description: according to UNE 21027-9, HD 22.9 S2:



1 Solid electrolytic copper conductor class 2 according to UNE-EN 60228/ EN 60228 /IEC 60228 standard.



2 Isolation of material cross-linked of polyolefine type E15.

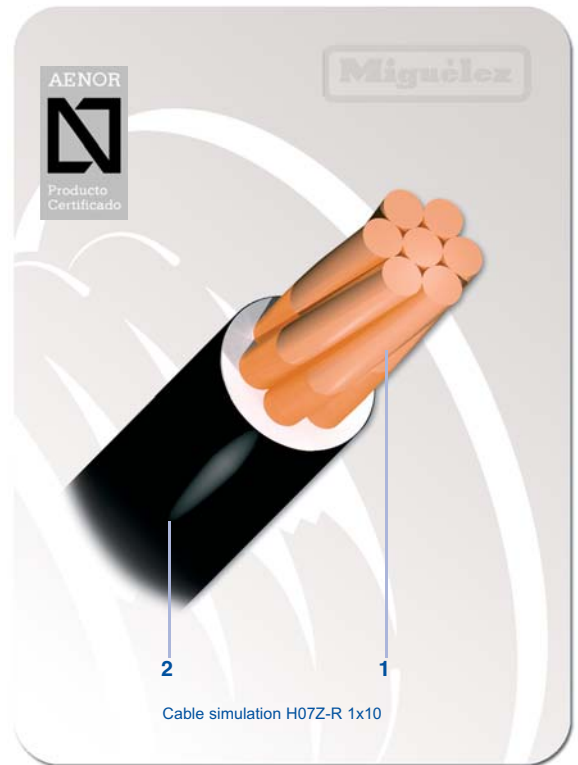
These cables are always single-core



Rank of temperatures of storage, transport and handling:

T. minimum °C: +5 T. maximum°C: +40 (1)

(1) Exposed to the sun, the temperature of the surface of the cable can exceed the value given, but limited to a maximum of 60°C.



Cable simulation H07Z-R 1x10

Applications

Installation type:FIXED

Users Guide:

H07Z-R en " facilities in conduits, located on surfaces or embedded, or in closed systems analogous, special when one requires low smoke-screening and corrosive gases." They are recommended for protected fixed assembly in, or on lights and apartamenta of control, for voltage until 1000V in alternating current, (or until 750V in DC) with respect to earth." And for "installation it fixes protected inside machinery and to, or on, fixed lights, in special when she requires low smoke-screening and corrosive gases." They are adapted for facilities made in placed conduits superficially or interlocked, only in the case of signal wirings or control."the highest temperature of the conductor in normal use of cables is 90°C. Must be avoided the contact with the skin when they work with high temperature. These cables are prepared to equip the circuit of integrity in case of fire. The tests defined for smoke and corrosive gases are applied only to cables and not to the whole cable conduit". (UNE 21176).

Suitable methods of installation:

In closed and tubular tubes, canals. In internal wiring of equipment and electrical mechanisms in zones of normal temperature. The Maximum temperature of the conductor a cable in individual can work, depends on the temperature limit of other cables and accessories that are in contact with.

Functional characteristics

A) Non flame propagation test:

The composition of the isolation of material cross-linked polyolefine type E15, guarantees the non flame propagation according to: UNE-EN 60332-2-1 ; EN 60332-2-1 ; IEC 60332-2-1 standards.



B) Density of smoke (smoke-screening):

In case of fire, avoids loss of visibility due to smoke produced by cable combustion, according to UNE EN 61034-2 / EN 61034-2 / IEC 61034-2 standards.



C) Halogenous determination:

In case of fire, the emission of monoxide of carbon, carbon dioxide and hydrochlorate acid is lower to 0.5 %, according to: UNE EN 50267-2-1 / EN 50267-2-1 / IEC 60754-1 standards.



D) Acidity and gases corrosivity:

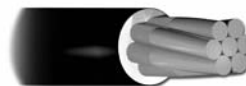
In case of fire, the index acidity and the conductivity the emanated gases according to UNE EN 50267-2-3 / EN 50267-2-3 / IEC 60754-2+A1 standards. minimum PH ≥ 4,3 / maximum conductivity (µS/cm) ≤100.



E) High service temperature:

The isolation of material cross-linked of polyolefine type E15, improves the capacity of power transmission, when elevating the permanent service temperature to 90°C and the short circuit(5 s.) to 250°C, in contrast to 70/160°C of the PVC or other no thermoplastic polyolefine.





Dimensional characteristics and colours

Code	Nominal cross section	Ø Overall	Insulation thickness	Weight	Conductor resistance 20°C	Colour available
	mm ²	mm	mm	Kg/km	Ohm/km	
H 0 7 Z - R						
84220	1x1.5	3	0,7	22,5	12,1	
84221	1x2.5	3,6	0,8	35	7,41	
84222	1x4	4,2	0,8	50	4,61	
84223	1x6	4,6	0,8	70	3,08	
84224	1x10	5,8	1	114	1,83	
84225	1x16	6,8	1	170	1,15	



Available references of permanent stock and **Integrated Service** net

Presentation

Boxes, packages and standard pallet sizes

Cable type	Nominal cross section	M.Pallet	m./drums	m./packages
AFIRENAS CC-Z	1x1,5	45.000	200	1000m
AFIRENAS CC-Z	1x2,5	27.000	200	600m
AFIRENAS CC-Z	1X4	18.000	100	400m
AFIRENAS CC-Z	1X6	13.500	100	300m
AFIRENAS CC-Z	1X10	7.200	100	100m
AFIRENAS CC-Z	1X16	7.200	100	100m