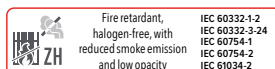
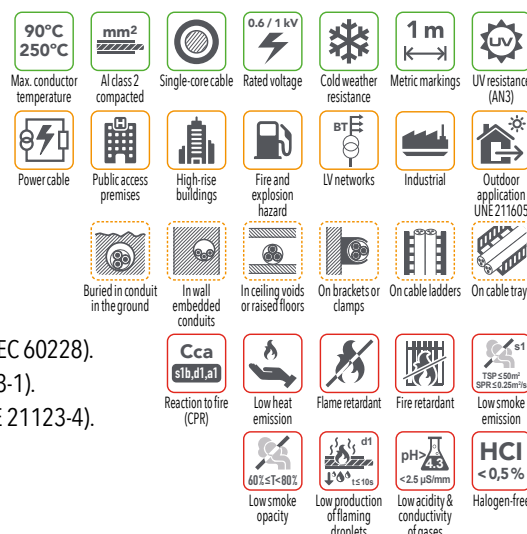


AFIRENAS X-AL RZ1 (AS) 0.6/1 kV AL

MIGUELÉZ ARTICLE GROUP
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- **Standards (construction/tests):** EC 60502-1 and UNE 21123-4.
- **Technical Designation:** RZ1 (AS) 0.6/1 kV AL.
- **Construction:**
 - **Conductor:** Aluminium, class 2, circular compacted stranded conductor (UNE-EN IEC 60228 and IEC 60228).
 - **Insulation:** Cross-linked polyethylene (XLPE). XLPE (IEC 60502-1) and type DIX 3 (Table 2A HD 603-1).
 - **Oversheath:** Halogen-free thermoplastic polyolefin. Type ST8 (IEC 60502-1) and type DMZ-E (UNE 21123-4).
- **Rated Voltage (Uo/U):** 0.6/1 kV AC; 1.5 kV DC.
- **Maximum system voltage (Um):** 1.2 kV AC; 1.8 kV DC.
- **Voltage test:** 3.5 kV AC (5 minutes).
- **Maximum conductor temperature. Normal operation / short-circuit (t≤5s):** 90 °C / 250 °C.
- **Range:** Single-core cable. Configurations: 1X(16-...-630) mm².
- **Reaction to fire (CPR - EN 50575 & EN 13501-6):** Cca-s1b,d1,a1.
- **Additional fire performance features (when CPR Regulation is not applicable):** Flame retardant, fire retardant, halogen-free and low gas and smoke emission with low opacity/toxicity/corrosivity/conductivity (IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2 & IEC 61034-2).
- **Applications:** Fixed installations. Especially suitable as a power cable for fixed installations in tunnels, public access premises, places with fire or explosion hazard and high-rise buildings and any other installation requiring enhanced fire performance (e.g. installations with cable bundles, vertical runs, etc.).
Suitable for indoor and outdoor installations, on supports, in conduits or buried.
Suitable for outdoor installation with exposure to UV radiation.
UV resistance according to EN 50618 and UNE 211605.
When the cable is installed on clamps, the horizontal distance between clamps shall not exceed 20 times the cable diameter. This distance is also applicable between support points when laid on other types of supports (e.g. cable trays, ladders, or mesh trays). In no case shall this distance exceed 80 cm. For vertical runs, the maximum distance between supports shall not exceed 150 cm.
If single-core cables are installed separately, clamps made of plastic or non-magnetic metals shall be used.
Cables and cable bundles shall be fixed to prevent indentations or damage due to thermal expansion.
The cable shall not be subjected to compressive forces that could damage it.
Connections between the different components shall be adequate, permanent, mechanically robust, corrosion-resistant and have low electrical resistivity. Likewise, conductor joints shall be made using methods or systems that ensure perfect continuity of both the conductor and its insulation. Joints, connections and branch connections shall be implemented using appropriate techniques to prevent deterioration of the conductor or other materials due to thermal expansion and to avoid hazardous potentials caused by galvanic coupling effects. Unnecessary joints and connections should be avoided.
- **Temperature ranges:**
 - **Maximum ambient temperature:** +70 °C. *Higher ambient temperatures can drastically limit the maximum allowable current-carrying capacity of the cable.*
 - **Minimum ambient temperature:** -30 °C. *Fixed, static installation in final position, protected against movement, shock, vibration or mechanical damage.*
 - **Maximum storage temperature:** + 50 °C.
 - **Minimum temperature for cable laying and installation:** 0 °C. *This temperature applies to the cables themselves, not the ambient or surrounding environment temperature. If the cables are at a lower temperature, they must be warmed up (e.g., by keeping them in a heated room for a reasonable amount of time).*
- **Minimum Bending Radius:**
 - **During installation:** 15xD.
 - **Final position:** 10xD.
D = overall diameter of the cable (mm).
- **Maximum pulling force during installation:**
 - F = 30xS (N). "S" = cross-sectional area of the conductor (mm²), applied to the aluminium conductor.
 - F = 5xD² (N). "D" = overall diameter (mm), applied to the oversheath.
- **Identification:** Oversheath color → Green (93).
- **Packaging and Presentation:** Drum/cut to length (03).
- **Other Features:**
 - Metric markings on the oversheath every 1.0 m.
 - 100% recyclable packaging. Wooden drums (PEFC and FSC certified).

MIGUELÉZ AFIRENAS RZ1 (AS) 0,6/1 kV 1XS mm² AL 90°C IEC 60502-1 made in Spain UNE 21123 clase Cca-s1b,d1,a1 EN 50575 MM/YY X MtsS= Cross sectional area of conductor (mm²).

Minimum content. The order of the marking elements may vary.

Code	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm ²	mm	mm	kg/km	Ω/km
885101001609303	1 X 16	0.7	9.3	111	1.91
885101002509303	1 X 25	0.9	10.8	153	1.20
885101003509303	1 X 35	0.9	11.8	191	0.868
885101005009303	1 X 50	1.0	13.2	238	0.641
885101007009303	1 X 70	1.1	15.3	324	0.443
885101009509303	1 X 95	1.1	16.8	409	0.320
885101012009303	1 X 120	1.2	18.5	497	0.253
885101015009303	1 X 150	1.4	20.3	604	0.206
885101018509303	1 X 185	1.6	22.6	738	0.164
885101024009303	1 X 240	1.7	25.5	940	0.125
885101030009303	1 X 300	1.8	28.5	1167	0.100
885101040009303	1 X 400	2.0	31.7	1441	0.0778
885101050009303	1 X 500	2.2	35.0	1799	0.0605
885101063009303	1 X 630	2.4	39.4	2348	0.0469