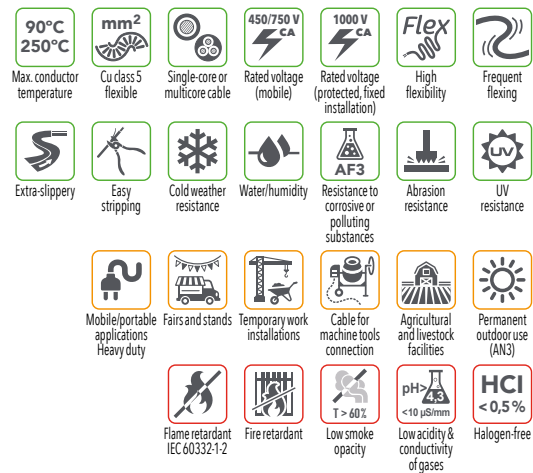


AFIRENAS-MAN H07ZZ-F

MIGUÉLEZ ARTICLE GROUP  
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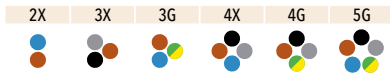
- Standards (construction/tests): EN 50525-3-21.
  - Technical designation: H07ZZ-F.
  - Construction:
    - Conductor: Copper, class 5 (UNE-EN IEC 60228).
    - Insulation: Halogen free, cross-linked elastomer type E18 (EN 50363-5).  
*Assembly of cores (multicore cables): Cores cabled helically.*
    - Oversheath: Halogen free, cross-linked elastomer type EM8 (UNE EN 50363-6).
  - Rated voltage (Uo/U): 450/750 V AC (mobile use).  
1 kV AC or 0.75 kV DC to earth (protected fixed use – inside conduits or similar enclosed systems).
  - Max. conductor temperature. Normal operation / short-circuit ( $t \leq 5s$ ): 90 °C / 250 °C.
  - Range: Single-core or multicore cable.  
Configurations: 1X(1.5...240) mm<sup>2</sup> / 2X(1.5...25) mm<sup>2</sup> / 3X or G(1.5...25) mm<sup>2</sup> / 4X or G(1.5...25) mm<sup>2</sup> / 5G(1.5...25) mm<sup>2</sup>.
  - Behavior in case of fire: Flame & 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 61034-2, IEC 60754-1 and IEC 60754-2).
  - Applications: Flexible cable suitable for fixed or mobile applications, specially designed as a power cable for portable equipment, extension leads and outdoor cable reels for heavy duty service (e.g. fairs or exhibition stands, caravans and caravan parks, industrial environments, agricultural and livestock facilities, wind turbines...).
- Weather- and UV-resistant (AN3).  
It can also be used in fixed installation, inside conduit or in open air on supports, and as internal wiring of machinery.  
Guide for use (according to EN 50565-2):  
*In premises where low emission of smoke and corrosive gases is required in case of fire.*  
*In industrial and agricultural workshops, buildings for applications and supply of equipment for demanding services where cables are subject to medium mechanical stress (examples: heating plates, portable lamps, electric tools such as drills, circular saws and domestic electric tools).*  
*In dry, humid or wet locations.*  
*In fixed installations, for example on plaster in temporary buildings and huts or shelters for accommodation.*  
*Additionally, these cables (multicore) are especially suitable for machine-tool connections.*
- External influence conditions:
    - Presence of water (AD7).
    - Corrosive or contaminating substances (AF3).
    - Impact resistance (AG2).
    - Suitable for mobile use and presence of vibrations (AH3).
    - Suitable for frequent bending.
    - Suitable for permanent outdoor use and UV resistant (AN3).
    - High abrasion resistance.
  - Ambient temperature range for use:
    - Max. cable surface temperature (mobile use): 80 °C. Skin contact should be avoided when using these cables unless it has been properly verified that the sheath temperature does not exceed +50 °C.
    - Max. storage temperature: +40 °C.
    - Min. temperature during installation, handling and/or accessory assembly: -5 °C.
    - Min. ambient temperature (static, fixed mechanically protected installation): -40 °C.
  - Minimum bending radius:
    - Fixed installation: 4 × D.
    - Free movement or an inlet of portable appliance or mobile equipment without mechanical load on the cable:  
4 × D – D ≤ 12 mm; 5 × D – 12 < D ≤ 20 mm; 6 × D – D > 20 mm.
    - With mechanical load: 6 × D – D ≤ 20 mm; 8 × D – D > 20 mm. D = overall cable diameter (mm).
  - Maximum pulling force:  
F = 15 × S (N). "S" = nominal conductor cross-section (mm<sup>2</sup>). Applied to copper conductors under static tensile stress. If stress exceeds these values, a separate stress-bearing member or device shall be used. The method of attaching such a member or device to the cable shall be such that the cable is not damaged.



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\* Short product code. Must be completed with the corresponding characters for 'oversheath colour' and 'packaging'. Check the 'Miguélez product code' section on our web page, in 'Downloads'.  
\*\* Check the CPR-classified range and the range included in the certifications indicated for each product, as well as much more information about our products, on the website: [www.miguellez.com](http://www.miguellez.com)  
\*\*\* Dimensional and weight values are approximate and subject to normal manufacturing tolerances.  
\*\*\*\* It is the sole responsibility of the end user to determine suitability of this product for its intended use and application. Please, consult the regulations, laws or standards that are applicable to each particular case. The installation systems and additional requirements established by any regulation, law and/or standards applicable to each particular case must be met.

- Identification: Oversheath colour → Black.  
 – Core identification for multicore cables (From 2 to 5): HD 308 S2.



- Packaging: Drum/cut length. For other formats (coils or reels), please contact our Sales Department.

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm <sup>2</sup>				
82260101-50	1 X 1.5	0.8	5.9	50	13.3
82260102-50	1 X 2.5	0.9	6.5	64	7.98
82260100040	1 X 4	1	7.5	90	4.95
82260100060	1 X 6	1	8.2	115	3.3
82260100100	1 X 10	1.2	9.9	178	1.91
82260100160	1 X 16	1.2	11.1	245	1.21
82260100250	1 X 25	1.4	12.9	350	0.78
82260100350	1 X 35	1.4	14.5	464	0.554
82260100500	1 X 50	1.6	16.5	640	0.386
82260100700	1 X 70	1.6	18.9	866	0.272
82260100950	1 X 95	1.8	21.4	1125	0.206
82260101200	1 X 120	1.8	23.4	1400	0.161
82260101500	1 X 150	2	25.8	1724	0.129
82260101850	1 X 185	2.2	28.2	2085	0.106
82260102400	1 X 240	2.4	32.0	2713	0.0801
82260201-50	2 X 1.5	0.8	9.2	116	13.3
82260202-50	2 X 2.5	0.9	10.8	166	7.98
82260200040	2 X 4	1	12.6	233	4.95
82260200060	2 X 6	1	14.0	301	3.3
82260200100	2 X 10	1.2	18.8	538	1.91
82260200160	2 X 16	1.2	21.2	725	1.21
82260200250	2 X 25	1.4	25.0	1038	0.78
82260311-50	3 G 1.5	0.8	9.9	141	13.3
82260312-50	3 G 2.5	0.9	11.6	202	7.98
82260310040	3 G 4	1	13.5	285	4.95
82260310060	3 G 6	1	15.0	371	3.3
82260310100	3 G 10	1.2	20.2	666	1.91
82260300160	3 X 16	1.2	22.8	906	1.21
82260300250	3 X 25	1.4	26.8	1303	0.78
82260411-50	4 G 1.5	0.8	10.9	173	13.3
82260412-50	4 G 2.5	0.9	12.8	247	7.98
82260410040	4 G 4	1	14.9	351	4.95
82260410060	4 G 6	1	16.7	466	3.3
82260410100	4 G 10	1.2	22.0	813	1.91
82260400160	4 X 16	1.2	24.9	1115	1.21
82260400250	4 X 25	1.4	29.7	1638	0.78
82260511-50	5 G 1.5	0.8	12.0	212	13.3
82260512-50	5 G 2.5	0.9	14.0	304	7.98
82260510040	5 G 4	1	16.6	440	4.95
82260510060	5 G 6	1	18.5	581	3.3
82260510100	5 G 10	1.2	24.2	1002	1.91
82260510160	5 G 16	1.2	27.5	1389	1.21
82260510250	5 G 25	1.4	32.8	2036	0.78

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