

AFIREBLEU FR-N1X6G3

DoP: MC1000FRN1X6G3. MIGUÉLEZ ARTICLE GROUP 105



Max. conductor temperature	Copper, class 1 or 2	Single-core or multicore cable	Rated voltage	Extra-slippery	Easy stripping	Cold weather resistance	Water/humidity (AD7)	Resistance to corrosive or polluting substances	UV resistance (AN3)				
Residential buildings ****	Industrial ****	Outdoor lighting ***	Public access premises ****	Fire and explosion hazard ****	Tunnels ****	High-rise buildings ****	Outdoor application XP C32-325	Buried in conduit in the ground	In wall embedded conduits	In ceiling voids or raised floors	On brackets or clamps	On cable ladders	On cable trays
Reaction to fire (CPR) EN 50575 EN 13501-6	Low heat emission EN 50399	Flame retardant EN 60332-1-2 IEC 60332-3-24 IEC 60754-1 IEC 60754-2 IEC 61034-2	Fire retardant EN 60332-1-2 EN 50339 (Ca) EN 60332-3-24 IEC 60332-3-24	Low smoke emission EN 50399	Low acidity & conductivity of gases EN 60754-2 IEC 60754-2	Halogen-free EN 60754-1 IEC 60754-1 EN 60684-2 IEC 60684-2							

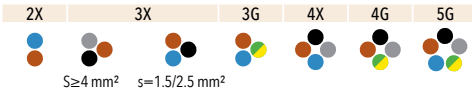


- Standards (construction / tests): XP C32-325.
- Technical designation:
 - FR-N1X6G3-U (s=1.5 / 2.5 / 4 mm²).
 - FR-N1X6G3-R (s≥6 mm²).
- Construction:
 - Conductor: Copper, class 1 (s=1.5 / 2.5 / 4 mm²) or class 2 (S≥6 mm²) (IEC 60228).
 - Insulation: Cross-linked polyolefin (XP C-32-325).
 - Assembly of cores (multicore cables): Cores cabled helically.
 - Filler/Inner covering: Optional for multicore cables. Halogen free material, suitable for the operating temperature of the cable and compatible with the insulation and oversheath material.
 - Outer sheath: Halogen-free thermoplastic polyolefin (XP C32-325).
- Rated voltage (Uo/U): 0.6/1 (1.2) kV AC.
- Max. conductor temperature. Normal operation / short-circuit (t ≤ 5s): 90 °C / 250 °C.
- Range: Single-core or multicore cable. 1x(1.5...300) mm² / 2x(1.5...35) mm² / 3G(1.5...240) mm² / 4x(1.5...185) mm² / 5G(1.5...25) mm².
- Reaction to fire classification (CPR - EN 50575, EN 13501-6): Class Cca-s1,d2,a1.
- Other fire performance features (when CPR Regulation is not applicable): Flame retardant, fire retardant, halogen free, and low smoke emission and gases of low toxicity, corrosivity, and conductivity (IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1 & 2 and IEC 61034-2).
- Applications: Fixed installation. FR-N1X6G3 power cables are specially indicated for its use in distribution networks, power stations, industries or buildings. They are designed to limit the risk of fire spread, minimize the smokes emitted in the event of a fire, and reduce the corrosiveness and toxicity of gases released during combustion. This advanced performance helps protect both people and property from the devastating secondary effects of a fire. The use of these cables is especially recommended for BD2, BD3, or BD4 installations (HD 60364-5-51), particularly due to their low emission of gases and smoke with low toxicity, corrosiveness, acidity, and opacity. Suitable for indoor and outdoor installations, on supports in the air, in conduits or buried (protected).
 - Resistant to weathering and UV radiation (AN3).
 - Presence of water (AD7).
 - Temperature ranges:
 - Maximum temperature during storage: +35°C.
 - Minimum temperature during installation, handling, and/or mounting of accessories: 0°C. The temperature applies to the cables themselves, not to the environment. If the cables are at a lower temperature, they must be warmed (for example, by storing them for a period in a heated room or space). Below –10 °C, cables must not be handled or subjected to mechanical stress.
 - Maximum ambient temperature: +60°C.
 - Minimum ambient temperature (static, fixed installation, mechanically protected): –25°C.
 - Minimum bending radius (final position): 6xD. D = overall diameter of the cable in mm.
 - Minimum bending radius (during installation): 12xD. D = overall diameter of the cable in mm.
 - Maximum pulling force:
 - If the traction force is applied on the copper conductors: F = 50xS (N). "S" = cross-sectional area of the conductors (in mm²).
 - If the traction force is applied on the oversheath: F = 5xD² (N). "D" = overall diameter of the outersheath (in mm).

* Short product code. Must be completed with the corresponding characters for 'oversheath colour' and 'packaging'. Check the 'Miguelélez 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.miguelélez.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.

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- Identification: Oversheath color → Dark blue.
- Core identification for multicore cables (From 2 to 5): HD 308 S2.



The black oversheath of the multicore cables (2, 3, 4, 5)X or G(1.5...-16 mm²) should have a coloured stripe to indicate the nominal cross-sectional area of copper conductors.

Nominal cross-sectional area mm²	Coloured stripe
1.5	Pink
2.5	Pale yellow
4	Violet
6	Turquoise
10	Brown
16	Grey

- Packaging: Drum/cut to length.
- Certain references are also available on coils or plywood spools.

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm²				
81060101-50	1 X 1.5	0.7	5.6	45	12.1
81060102-50	1 X 2.5	0.7	5.9	57	7.41
81060100040	1 X 4	0.7	6.4	73	4.61
81060100060	1 X 6	0.7	7.2	97	3.08
81060100100	1 X 10	0.7	8.0	139	1.83
81060100160	1 X 16	0.7	8.9	197	1.15
81060100250	1 X 25	0.9	10.4	293	0.727
81060100350	1 X 35	0.9	11.5	387	0.524
81060100500	1 X 50	1.0	12.9	510	0.387
81060100700	1 X 70	1.1	14.7	712	0.268
81060100950	1 X 95	1.1	16.6	974	0.193
81060101200	1 X 120	1.2	18.3	1208	0.153
81060101500	1 X 150	1.4	20.4	1484	0.124
81060101850	1 X 185	1.6	22.2	1848	0.0991
81060102400	1 X 240	1.7	25.1	2392	0.0754
81060103000	1 X 300	1.8	29.7	3023	0.0601
81060201-50	2 X 1.5	0.7	9.1	117	12.1
81060202-50	2 X 2.5	0.7	9.9	147	7.41
81060200040	2 X 4	0.7	10.8	190	4.61
81060200060	2 X 6	0.7	12.4	258	3.08
81060200100	2 X 10	0.7	15.4	420	1.83
81060200160	2 X 16	0.7	17.1	574	1.15
81060200250	2 X 25	0.9	20.2	840	0.727
81060200350	2 X 35	0.9	22.4	1089	0.524

Code*	No. of cores & nominal cross-sectional area	Insulation thickness	Overall diameter	Total weight	Maximum electrical resistance at 20°C (DC)
	mm²				
81060311-50	3 G 1.5	0.7	9.5	135	12.1
81060312-50	3 G 2.5	0.7	10.4	174	7.41
81060310040	3 G 4	0.7	11.4	230	4.61
81060310060	3 G 6	0.7	13.1	314	3.08
81060310100	3 G 10	0.7	16.2	513	1.83
81060310160	3 G 16	0.7	18.1	718	1.15
81060300160	3 X 16	0.7	18.1	718	1.15
81060310250	3 G 25	0.9	21.4	1064	0.727
81060300250	3 X 25	0.9	21.4	1064	0.727
81060310350	3 G 35	0.9	23.8	1394	0.524
81060300350	3 X 35	0.9	23.8	1394	0.524
81060310500	3 G 50	1.0	26.9	1846	0.387
81060300500	3 X 50	1.0	26.9	1846	0.387
81060300700	3 X 70	1.1	31.1	2576	0.268
81060300950	3 X 95	1.1	35.0	3470	0.193
81060301200	3 X 120	1.2	38.9	4336	0.153
81060301500	3 X 150	1.4	43.4	5339	0.124
81060301850	3 X 185	1.6	47.6	6629	0.0991
81060302400	3 X 240	1.7	54.0	8588	0.0754
81060411-50	4 G 1.5	0.7	10.3	160	12.1
81060401-50	4 X 1.5	0.7	10.3	160	12.1
81060412-50	4 G 2.5	0.7	11.2	209	7.41
81060402-50	4 X 2.5	0.7	11.2	209	7.41
81060410040	4 G 4	0.7	12.3	280	4.61
81060400040	4 X 4	0.7	12.3	280	4.61
81060410060	4 G 6	0.7	14.2	387	3.08
81060400060	4 X 6	0.7	14.2	387	3.08
81060410100	4 G 10	0.7	17.6	631	1.83
81060400100	4 X 10	0.7	17.6	631	1.83
81060400160	4 X 16	0.7	19.6	895	1.15
81060400250	4 X 25	0.9	23.4	1337	0.727
81060400350	4 X 35	0.9	26.1	1763	0.524
81060400500	4 X 50	1.0	29.5	2342	0.387
81060400700	4 X 70	1.1	34.4	3297	0.268
81060400950	4 X 95	1.1	38.7	4457	0.193
81060401200	4 X 120	1.2	43.3	5592	0.153
81060401500	4 X 150	1.4	48.1	6858	0.124
81060401850	4 X 185	1.6	53.0	8556	0.0991
81060511-50	5 G 1.5	0.7	11.0	193	12.1
81060512-50	5 G 2.5	0.7	12.1	254	7.41
81060510040	5 G 4	0.7	13.3	344	4.61
81060510060	5 G 6	0.7	15.5	479	3.08
81060510100	5 G 10	0.7	19.0	776	1.83
81060510160	5 G 16	0.7	21.3	1108	1.15
81060510250	5 G 25	0.9	25.5	1667	0.727

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