

U1000 ARVFV 600/1000V

An armoured low voltage power cable with aluminium conductors, XPLE insulation and PVC outer sheath



Application

The U1000 ARVFV armoured aluminium cables can be used in all low voltage power installations. This product is used in photovoltaic applications. These cables are suitable for direct burial without additional protection, for installation on cable trays or in conduits where mechanical protection is necessary.

Construction

Conductor	: Stranded circular aluminium class 2
Insulation	: XPLE, cross linked polyethylene
Laying up	: With fillers
Inner sheath	: PVC, (Polyvinyl Chloride)
Armour	: Double Aluminium Tape for single core cables Double Steel Tape for multi core cables
Outer Sheath	: PVC, (Polyvinyl Chloride)
Rated voltage (Uo/U)	: 600/1000V

Outer Sheath Colours

Available colours : Black

Installation recommendations

Max. Conductor operating temperature	: 90°C
Short circuit max. core temperature	: 250°C
Operating temperature	: -25°C - 60°C

Standards applied

EN 60228
IEC 60502
NF C 32-322
NF C 32-070

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Core identification

Number of cores	Core identification in accordance with HD 308 S2	
	G (earth core)	X (without earthcore)
1		Black
2		Blue, Brown
3*	Green/Yellow, Blue, Brown	Brown, Black, Grey
3**		Blue, Brown, Black
4	Green/Yellow, Brown, Black, Gray	Blue, Brown, Black, Grey
5	Green/Yellow, Blue, Brown, Black, Grey	Blue, Brown, Black, Grey, Black
5>	1 Green / Yellow, White printed numbers	White printed numbers

* For the cables without Green/Yellow with a cross-section > 4mm²

** For the cables without Green/Yellow with a cross-section of 1,5mm² and 2,5mm²

Range and Dimensions

Two cores

Article Code	Size Cross-Section in mm ²	Voltage drop, single phase V/A.km	Max. outer diameter mm	Perm. Current rating open air A	Perm. Current rating burried A	Nominal overall cable weight kg/km
P0802C016BWWBK4	16	3.90	19.4	91	104	575
P0802C025BWWBK4	25	2.50	22.8	108	133	785
P0802C035BWWBK4	35	1.89	25.6	135	160	993

Three cores

Article Code	Size Cross-Section in mm ²	Voltage drop, single phase V/A.km	Max. outer diameter mm	Perm. Current rating open air A	Perm. Current rating burried A	Nominal overall cable weight kg/km
P0803C016BBABK4	16	3.40	20.4	77	87	632
P0803C025BBABK4	25	2.20	24.1	97	111	869
P0803C035BBABK4	35	1.63	27.1	120	134	1106
P0803C050BBABK4	50	1.22	30.3	146	16	1382
P0803C070BBABK4	70	0.87	33.3	187	197	1721
P0803C095BBABK4	95	0.66	38.8	227	234	2578
P0803C120BBABK4	120	0.54	43.5	263	266	3168
P0803C150BBABK4	150	0.45	47.7	304	300	3799
P0803C185BBABK4	185	0.38	53.3	347	337	4627
P0803C240BBABK4	240	0.31	58.5	409	388	5582
P0803C300BBABK4	300	0.27	64.9	471	440	6785

Three cores with Green/Yellow

Article Code	Size Cross-Section in mm ²	Voltage drop, single phase V/A.km	Max. outer diameter mm	Perm. Current rating open air A	Perm. Current rating burried A	Nominal overall cable weight kg/km
P0803C016BBABK4	16	3.40	20.4	77	87	632
P0803C025BBABK4	25	2.20	24.1	97	111	869
P0803C035BBABK4	35	1.63	27.1	120	134	1106
P0803C050BBABK4	50	1.22	30.3	146	16	1382
P0803C070BBABK4	70	0.87	33.3	187	197	1721
P0803C095BBABK4	95	0.66	38.8	227	234	2578
P0803C120BBABK4	120	0.54	43.5	263	266	3168
P0803C150BBABK4	150	0.45	47.7	304	300	3799

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Four cores

Article Code	Size Cross-Section in mm ²	Voltage drop, single phase V/A.km	Max. outer diameter mm	Perm. Current rating open air A	Perm. Current rating burried A	Nominal overall cable weight kg/km
P0804C016BBCBK4	16	3.40	22.1	77	87	725
P0804C025BBCBK4	25	2.20	26.4	97	111	1017
P0804C035BBCBK4	35	1.63	29.7	120	134	1296
P0804C050BBCBK4	50	1.22	33.3	146	160	1628
P0804C070BBCBK4	70	0.87	38.2	187	197	2454
P0804C095BBCBK4	95	0.66	42.7	227	234	3045
P0804C120BBCBK4	120	0.54	48.1	263	266	3772
P0804C150BBCBK4	150	0.45	52.4	304	300	4477
P0804C185BBCBK4	185	0.38	58.5	347	337	5448
P0804C240BBCBK4	240	0.31	64.7	406	388	6664

Five cores

Article Code	Size Cross-Section in mm ²	Voltage drop, single phase V/A.km	Max. outer diameter mm	Perm. Current rating open air A	Perm. Current rating burried A	Nominal overall cable weight kg/km
P0805C016BBGBK4	16	3.40	24.0	77	87	854
P0805C025BBGBK4	25	2.20	28.9	97	111	1221

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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