

U1000 R2V 600/1000V

A low voltage power cable with XPLE insulation and PVC outer sheath



Application

The U1000 R2V cables can be used in all low voltage power installations. The multi core cables are adapted to remote control and tele control installations. For fixed applications only and can be used in cable ducts, trays or fixed to walls. With extra mechanical protection these cables can be buried directly.

Notes

- In case of high ambient temperature, use correction coefficient.
- Cross sections 1.5, 2.5 and 4.0mm² need to be class 2, if the cables is connected to equipment subject to vibration.

Construction

Conductor	: Bare copper
Conductor screen	: Semi conductive extruded layer
Insulation	: XPLE, cross linked polyethylene
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	: -10°C - 60°C

Standards applied

NC C 32-321
HD 308 S2

U1000 R2V 600-1000V

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

Single core

Article Code	Size Cross-Section in mm ²	Perm. Current rating open air A	Perm. Current rating burried A	Voltage drop, 3 conductors V/A.km	Max. outer diameter mm	Nominal overall cable weight kg/km
P08A01C1.5BAKBK4	1.5	24	34	21.5	6.4	50
P08A01C2.5BAKBK4	2.5	33	46	13.2	7.0	50
P08A01C004BAKBK4	4	45	59	8.3	7.6	80
P08A01C006BAKBK4	6	58	74	5.6	8.2	100
P08A01C010BAKBK4	10	80	101	3.3	9.2	145
P08A01C016BAKBK4	16	107	128	2.1	10.5	205
P08A01C025BAKBK4	25	138	144	1.4	10.5	290
P08A01C035BAKBK4	35	169	174	1.0	11.5	390
P08A01C050BAKBK4	50	207	206	0.78	12.6	510
P08A01C070BAKBK4	70	268	254	0.56	14.7	720
P08A01C095BAKBK4	95	328	301	0.43	16.3	970
P08A01C120BAKBK4	120	382	343	0.36	17.8	1210
P08A01C150BAKBK4	150	441	387	0.31	20.2	1480
P08A01C185BAKBK4	185	506	434	0.26	22.1	1835
P08A01C240BAKBK4	240	599	501	0.22	24.9	2540
P08A01C300BAKBK4	300	693	565	0.19	27.7	2945
P08A01C400BAKBK4	400	825	662	0.17	31.6	2860
P08A01C500BAKBK4	500	946	750	0.15	35.5	4890

Two cores

Article Code	Size Cross-Section in mm ²	Perm. Current rating open air A	Perm. Current rating burried A	Voltage drop, 3 conductors V/A.km	Max. outer diameter mm	Nominal overall cable weight kg/km
P08A02C1.5BWWBK4	1.5	24.8	10.5	24	34	130
P08A02C2.5BWWBK4	2.5	14.8	11.5	33	46	170
P08A02C004BWWBK4	4	9.2	13.0	45	59	220
P08A02C006BWWBK4	6	6.2	14.0	58	74	290
P08A02C010BWWBK4	10	3.7	16.0	80	101	400
P08A02C016BWWBK4	16	2.4	18.5	107	128	550
P08A02C025BWWBK4	25	1.6	22.0	142	162	865
P08A02C035BWWBK4	35	1.15	22.4	185	208	1145
P08A02C050BWWBK4	50		24.2	225	247	1435

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Three cores

Article Code	Size Cross-Section in mm ²	Perm. Current rating open air A	Perm. Current rating burried A	Voltage drop, 3 conductors V/A.km	Max. outer diameter mm	Nominal overall cable weight kg/km
P08A03C1.5BBABK4	1.5	21.4	11.0	22	29	145
P08A03C2.5BBABK4	2.5	13.2	12.5	30	40	190
P08A03C004BBABK4	4	8.2	13.5	40	51	250
P08A03C006BBABK4	6	5.5	15.0	52	64	340
P08A03C010BBABK4	10	3.3	17.0	71	88	485
P08A03C016BBABK4	16	2.1	16.5	96	111	690
P08A03C025BBABK4	25	1.37	23.5	127	144	1080
P08A03C035BBABK4	35	1.0	26.0	158	174	1435
P08A03C050BBABK4	50	0.76	29.0	192	206	1845
P08A03C070BBABK4	70	0.55	34.0	246	254	2560
P08A03C095BBABK4	95	0.42	38.5	298	301	3470
P08A03C120BBABK4	120	0.35	42.5	346	343	4410
P08A03C150BBABK4	150	0.30	47.5	395	387	5330
P08A03C185BBABK4	185	0.25	53.0	450	434	6570
P08A03C240BBABK4	240	0.19	59.5	538	501	8460

Three cores with smaller neutral conductor

Article Code	Size Cross-Section in mm ²	Perm. Current rating open air A	Perm. Current rating burried A	Voltage drop, 3 conductors V/A.km	Max. outer diameter mm	Nominal overall cable weight kg/km
P08A03C050BBABK4	50	0.78	31.1	35	190	204
P08A03C070BBABK4	70	0.55	35.1	35	242	252
P08A03C070BBABK4	70	0.57	36.2	50	242	252
P08A03C095BBABK4	95	0.44	40.6	50	293	302
P08A03C120BBABK4	120	0.36	45.4	70	339	345
P08A03C150BBABK4	150	0.31	49.5	70	390	386
P08A03C240BBABK4	240	0.23	61.5	95	522	504

Four cores

Article Code	Size Cross-Section in mm ²	Perm. Current rating open air A	Perm. Current rating burried A	Voltage drop, 3 conductors V/A.km	Max. outer diameter mm	Nominal overall cable weight kg/km
P08A04C1.5BBCBK4	1.5	21.5	12.0	22	26	170
P08A04C2.5BBCBK4	2.5	12.8	13.0	30	36	220
P08A04C004BBCBK4	4	8.0	14.5	40	46	300
P08A04C006BBCBK4	6	5.4	16.0	52	58	410
P08A04C010BBCBK4	10	3.2	18.5	71	79	600
P08A04C016BBCBK4	16	2.11	21.0	96	100	860
P08A04C025BBCBK4	25	1.37	25.5	127	141	1340
P08A04C035BBCBK4	35	1.0	28.5	158	174	1780
P08A04C050BBCBK4	50	0.76	32.5	192	206	2330
P08A04C070BBCBK4	70	0.55	34.5	246	254	3375
P08A04C095BBCBK4	95	0.42	42.5	298	301	4345
P08A04C120BBCBK4	120	0.35	47.5	346	343	5590
P08A04C150BBCBK4	150	0.3	52.5	395	387	6650
P08A04C185BBCBK4	185	0.25	59.0	450	434	8350

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Five cores

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P08A05C1.5BBGBK4	1.5	21.5	13.0	22	26	200
P08A05C2.5BBGBK4	2.5	13.2	14.5	30	36	275
P08A05C004BBGBK4	4	8.2	16.0	30	46	365
P08A05C006BBGBK4	6	5.5	17.5	52	58	490
P08A05C010BBGBK4	10	3.3	20.0	71	79	725
P08A05C016BBGBK4	16	2.1	23.0	96	100	1060
P08A05C025BBGBK4	25	1.37	28.0	127	141	1610
P08A05C035BBGBK4	35	1.0	30.5	157	170	2210
P08A05C050BBGBK4	50	0.76	34.0	190	204	2930
P08A05C070BBGBK4	70	0.54	43.0	242	252	4150
P08A05C095BBGBK4	95	0.15	47.0	293	302	5540

NOTICE

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