

CU Vintols

Contact

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Cu conductor, PVC insulated, PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

DESCRIPTION

Application

- Industrial and commercial applications (predominantly)
- Some domestic applications
- For use in various situations to supply the main power from the point of supply (either single or three phase application) to buildings, equipment, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc. Commonly used in Power Authority work.



STANDARDS

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Type of conductor	Circular, stranded
Insulation	PVC
Outer sheath	PVC

Electrical characteristics

Rated Voltage U _o /U (Um)	0.6/ 1 (1.2) kV
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Usage characteristics

Max. conductor temperature in service	75 °C
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All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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PRODUCT LIST

Nexans ref.	Country ref.	Cross section [mm ²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Sheath colour	Nom. overall diam. [mm]	Gland Size (A2 or A2F)	Approx. weight [kg/m]
BABP09AA001OMNA	2642	4	4.61	Orange	7.7	20S/16	0.1
BABP15A1001CXNA	5560.1	16	1.15	Black	10.0	20	0.23
BABP15A1001BFNA	3818.1	16	1.15	Blue	10.0	20	0.23
BABP15A1001JBNA	4354.1	16	1.15	Red	10.0	20	0.23
BABP15A1001WVNA	8131.1	16	1.15	White	10.0	20	0.23
BABP16A1001CXNA	8124.1	25	0.727	Black	11.8	20	0.35
BABP16A1001BFNA	4321.1	25	0.727	Blue	11.8	20	0.35
BABP16A1001JBNA	7522.1	25	0.727	Red	11.8	20	0.35
BABP16A1001WVNA	6139.1	25	0.727	White	11.8	20	0.35
BABP18A1001CXNA	3844.1	35	0.524	Black	13.0	20	0.45
BABP18A1001BFNA	9624.1	35	0.524	Blue	13.0	20	0.45
BABP18A1001JBNA	8058.1	35	0.524	Red	13.0	20	0.45
BABP18A1001WVNA	8224.1	35	0.524	White	13.0	20	0.45
BABP20AA001CXNA	1693	70	0.268	Black	16.4	25	0.82
BABP20AA001BFNA	7116	70	0.268	Blue	16.4	25	0.82
BABP20AA001JBNA	8611	70	0.268	Red	16.4	25	0.82
BABP20AA001WVNA	9981	70	0.268	White	16.4	25	0.82

CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Copper conductor - Circular stranded - Insulation PVC Aluminum conductor - Circular stranded except 240 mm²
Compact circular stranded - Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm ²]							
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
4	44	35	36	56	52	45	18
16	56	46	47	71	109	98	41
25	76	62	62	94	142	128	55
35	101	82	80	134	171	153	67
70	136	111	107	174	251	-	227
95	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-

 Air Spaced from Surface, Unenclosed

 Air touching, unenclosed

 Air enclosed

 Buried direct

 Buried in single-way duct

 Buried in multi-way duct

 Cable surrounded by thermal insulation, unenclosed

Note

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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C
- Soil Temperature: 15°C
- Soil Thermal Resistivity: 1.2 K.m/W
- Depth of Burial: 0.5 m

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Single Conductor PVC (three phase) PVC insulation Unarmoured Sheathed or unsheathed For cables up to and including 0.6/1 kV @ 50 Hz AC.

Conductor cross-section [mm ²]							
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
4	38	35	32	40	47	40	18
16	88	82	71	114	99	86	41
25	117	111	92	147	129	110	55
35	145	136	114	176	154	134	67
70	225	210	173	256	226	198	-
95	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-

 Air Spaced from Surface, Unenclosed

 Air touching, unenclosed

 Air enclosed

 Buried direct

 Buried in single-way duct

 Buried in multi-way duct

 Cable surrounded by thermal insulation, unenclosed

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