Contact

Sales Enquiries Phone: 0508 NEXANS sales.nz@nexans.com

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 Uo/U (Um)	0.6/ 1 (1.2) kV
Usage characteristics	
Max. conductor temperature in service	75 °C

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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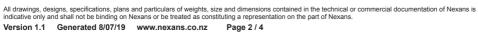


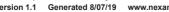
Cu Vintols

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PRODUCT LIST

Nexans ref.	Country ref.	Cross section [mm²]	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	
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	







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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 [mm²] 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	Cor	nductor cross-section	0	8	6	F	15 67	\$		
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 95 120 185 240 240 Air Spaced from Surface, Unenclosed Unenclosed Buried direct Buried in single-way duct Cable surrounded by thermal		[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu	
25		4	44	35	36	56	52	45	18	
35 101 82 80 134 171 153 67 70 136 111 107 174 251 - 227 95 120 185 240 Air Spaced from Surface, Unenclosed When the surrounded by thermal		16	56	46	47	71	109	98	41	
70 136 111 107 174 251 - 227 95 120 185 240 Air Spaced from Surface, Unenclosed Buried direct Buried in single-way duct Cable surrounded by thermal		25	76	62	62	94	142	128	55	
95		35	101	82	80	134	171	153	67	
120		70	136	111	107	174	251	-	227	
185		95	-	-	-	-	-	-	-	
Air Spaced from Surface, Unenclosed Buried direct Cable surrounded by thermal Air touching, unenclosed Buried in single-way duct Buried in single-way duct Buried in single-way duct		120	-	-	-	-	-	-	-	
Air Spaced from Surface, Unenclosed Buried direct Cable surrounded by thermal Air touching, unenclosed Buried in single-way duct Buried in single-way duct		185	-	-	-	-	-	-	-	
Unenclosed Buried direct Cable surrounded by thermal		240	-	-	-	-	-	-	-	
Cable surrounded by thermal	0			8 Air touchi	ng, unenclosed		Air enclo	osed		
	SM	Buried direct	72	Buried in	Buried in single-way duct		Buried in multi-way		uct	
			l							

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



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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	8	***	0					
[mm²]	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,	- 1	8 Air touchi	na unenclosec	, 3	Air encl	nead		





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









