

Conduit Wires

Contact

Sales Enquiries
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Cu conductor, PVC insulation. 0.6/1 kV. Made to AS/NZS 5000.1.

DESCRIPTION

Application

- Industrial, commercial and domestic applications
- The wiring of switch boards and control panels
- Earth wiring in houses
- Wiring where the conduit wire is run inside a protective enclosure (plastic or metal conduits)



STANDARDS

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics

Conductor material

Copper

Electrical characteristics

Rated Voltage U₀/U (Um)

0.6/ 1 (1.2) kV

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V90HT INSULATION

Nexans ref.	Country ref.	Cross section [mm²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Colour	Nom. overall diam. [mm]	Approx. weight [kg/m]	Type of conductor
BAAP01AD001AABK	8143	0.5	36	Black	2.5	0.11	Solid

V90 INSULATION

Nexans ref.	Country ref.	Cross section [mm²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Colour	Nom. overall diam. [mm]	Approx. weight [kg/m]	Type of conductor
BAAP02C1001AABK	1210	1	18.1	Black	2.8	0.02	Solid
BAAP02C1001AABE	8153	1	18.1	Blue	2.8	0.02	Solid
BAAP02C1001AAGN	5984	1	18.1	Green	2.8	0.02	Solid
BAAP02C1001AARD	7974	1	18.1	Red	2.8	0.02	Solid
BAAP02C1001AAWT	3318	1	18.1	White	2.8	0.02	Solid
BAAP05A1001AABK	8439.1	1.5	13.6	Black	3.3	0.02	Circular, stranded
BAAP05C1001AABK	8439	1.5	13.6	Black	3.3	0.02	Circular, stranded
BAAP05A1001AABE	9137.1	1.5	13.6	Blue	3.3	0.02	Circular, stranded
BAAP05C1001AABE	9137	1.5	13.6	Blue	3.3	0.02	Circular, stranded
BAAP05C1001AAHN	3682	1.5	13.6	Green / yellow	2.8	0.02	Circular, stranded
BAAP05A1001AARD	7322.1	1.5	13.6	Red	3.3	0.02	Circular, stranded
BAAP05C1001AARD	7322	1.5	13.6	Red	3.3	0.02	Circular, stranded
BAAP05A1001AAWT	3317.1	1.5	13.6	White	3.3	0.02	Circular, stranded
BAAP05C1001AAWT	3317	1.5	13.6	White	3.3	0.02	Circular, stranded
BAAP07C1001AABK	2111	2.5	7.41	Black	3.8	0.03	Circular, stranded
BAAP07A1001AABE	2215.1	2.5	7.41	Blue	3.8	0.03	Circular, stranded
BAAP07C1001AABE	2215	2.5	7.41	Blue	3.8	0.03	Circular, stranded
BAAP07C1001AAHN	3898	2.5	7.41	Green / yellow	3.6	0.03	Circular, stranded
BAAP07A1001AARD	5786.1	2.5	7.41	Red	3.8	0.03	Circular, stranded
BAAP07C1001AARD	5786	2.5	7.41	Red	3.8	0.03	Circular, stranded
BAAP07A1001AAWT	4732.1	2.5	7.41	White	3.8	0.03	Circular, stranded
BAAP07C1001AAWT	4732	2.5	7.41	White	3.8	0.03	Circular, stranded

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BAAP09A1001AABK	8484	4	4.61	Black	4.7	0.06	Circular, stranded
BAAP09C1001AABE	4640	4	4.61	Blue	4.7	0.06	Circular, stranded
BAAP09C1001AAHN	8495	4	4.61	Green / yellow	4.7	0.06	Circular, stranded
BAAP09A1001AARD	6347.1	4	4.61	Red	4.7	0.06	Circular, stranded
BAAP09C1001AARD	6347	4	4.61	Red	4.7	0.06	Circular, stranded
BAAP09C1001AAWT	8207	4	4.61	White	4.7	0.06	Circular, stranded

V75 INSULATION

Nexans ref.	Country ref.	Cross section [mm ²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Colour	Nom. overall diam. [mm]	Approx. weight [kg/m]	Type of conductor
BAAP11A1001AABK	7852	6	3.08	Black	5.3	0.08	Circular, stranded
BAAP11A1001AABE	8105	6	3.08	Blue	5.3	0.08	Circular, stranded
BAAP11A1001AAHN	6112	6	3.08	Green / yellow	5.3	0.08	Circular, stranded
BAAP11A1001AARD	9844	6	3.08	Red	5.3	0.08	Circular, stranded
BAAP11A1001AAWT	4875	6	3.08	White	5.3	0.08	Circular, stranded
BAAP13A1001AABK	3271	10	1.83	Black	6.2	0.12	Circular, stranded
BAAP13A1001AABE	8883	10	1.83	Blue	6.2	0.12	Circular, stranded
BAAP13A1001AAHN	3513	10	1.83	Green / yellow	6.2	0.12	Circular, stranded
BAAP13A1001AARD	8770	10	1.83	Red	6.2	0.12	Circular, stranded
BAAP13A1001AAWT	4096	10	1.83	White	6.2	0.12	Circular, stranded
BAAP15A1001AABK	7077.1	16	1.15	Black	7.2	0.18	Circular, stranded
BAAP15AA001AABK	7077	16	1.15	Black	7.2	0.18	Circular, stranded
BAAP15AA001AABE	7481	16	1.15	Blue	7.2	0.18	Circular, stranded
BAAP15AA001AAHN	4462	16	1.15	Green / yellow	7.3	0.18	Circular, stranded
BAAP15A1001AARD	1499.1	16	1.15	Red	7.2	0.18	Circular, stranded

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Nexans ref.	Country ref.	Cross section [mm ²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Colour	Nom. overall diam. [mm]	Approx. weight [kg/m]	Type of conductor
BAAP15AA001AARD	1499	16	1.15	Red	7.2	0.18	Circular, stranded
BAAP15A1001AAWT	3114.1	16	1.15	White	7.2	0.18	Circular, stranded
BAAP15AA001AAWT	3114	16	1.15	White	7.2	0.18	Circular, stranded
BAAC17AA001AABK	3897	25	0.727	Black	8.9	0.28	Circular, stranded
BAAP16AA001AACX	3897	25	0.727	Black	8.9	0.28	Circular, stranded
BAAP16A1001AABF	5672.1	25	0.727	Blue	8.9	0.28	Circular, stranded
BAAP16AA001AABF	5672	25	0.727	Blue	8.9	0.28	Circular, stranded
BAAP16A1001AAHT	6320.1	25	0.727	Green / yellow	8.9	0.28	Circular, stranded
BAAP16AA001AAHT	6320	25	0.727	Green / yellow	8.9	0.28	Circular, stranded
BAAP16AA001AAJB	3825	25	0.727	Red	8.9	0.28	Circular, stranded
BAAP16A1001AAWV	7361.1	25	0.727	White	8.9	0.28	Circular, stranded
BAAP16AA001AAWV	7361	25	0.727	White	8.9	0.28	Circular, stranded
BAAP18AA001AACX	7395	35	0.524	Black	10.1	0.38	Circular, stranded
BAAP18AA001AABF	8067	35	0.524	Blue	10.1	0.38	Circular, stranded
BAAP18A1001AAHT	2057.1	35	0.524	Green / yellow	10.1	0.38	Circular, stranded
BAAP18AA001AAHT	2057	35	0.524	Green / yellow	10.1	0.38	Circular, stranded
BAAP18AA001AAJB	4928	35	0.524	Red	10.1	0.38	Circular, stranded
BAAP18AA001AAWV	9190	35	0.524	White	10.1	0.38	Circular, stranded
BAAP19AA001AAHT	9988	50	0.387	Green / yellow	11.8	0.51	Circular, stranded
BAAP20AA001AAHT	5680	70	0.268	Green / yellow	13.5	0.72	Circular, stranded
BAAP21AA001AAHT	5987	95	0.193	Green / yellow	15.8	1	Circular, stranded
BAAP23AA001AAHT	7379	120	0.153	Green / yellow	17.5	1.23	Circular, stranded

CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - CONDUIT WIRES

Copper conductor Circular stranded (except 1 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm ²]	 Cu
1	15
1.5	21
2.5	27
4	36
6	47
10	62
16	80
25	107
35	128
50	157
70	194
95	242
120	276

 Air enclosed

Note

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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - CONDUIT WIRES

Copper conductor Circular stranded (except 1 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm ²]	 Cu
1	14
1.5	17
2.5	24
4	32
6	40
10	54
16	71
25	92
35	114
50	136
70	173
95	209
120	247

 Air enclosed

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- Ambient Air Temperature: 30°C