

Conduit Wires



Wire & Cable Specification

Construction	
Standard	AS/NZS 5000.1
Voltage	0.6/1 kV
Conductor	Copper
Insulation	PVC

Item Codes

Material No.	Old Code	Area mm ²	Description	Nom Dia mm	Approx Mass kg/m
V90 Insulation					
BAAP01AD001AABK	8143	0.5	BK	2.5	0.11
-	4920	0.5	BU	2.5	0.11
-	2903	0.5	GY	2.5	0.11
-	1302	0.5	OG	2.5	0.11
BAAP01A1001AARD	9370	0.5	RD	2.5	0.11
BAAP02C1001AABK	1210	1.0	BK	2.8	0.02
BAAP02C1001AABE	8153	1.0	BU	2.8	0.02
BAAP02C1001AAGN	5984	1.0	GN	2.8	0.02
BAAP02C1001AARD	7974	1.0	RD	2.8	0.02
BAAP02C1001AAWT	3318	1.0	WH	2.8	0.02
BAAP05C1001AABK	8439	1.5	BK	3.3	0.02
-	1047	1.5	BN	3.3	0.02
BAAP05C1001AABE	9137	1.5	BU	3.3	0.02
BAAP05C1001AAHN	3682	1.5	GNYE	2.8	0.02
BAAP05C1001AARD	7322	1.5	RD	3.3	0.02
BAAP05C1001AAWT	3317	1.5	WH	3.3	0.02
BAAP07C1001AABK	2111	2.5	BK	3.8	0.03
BAAP07C1001AABE	2215	2.5	BU	3.8	0.03
BAAP07C1001AAHN	3898	2.5	GNYE	3.6	0.03
BAAP07C1001AARD	5786	2.5	RD	3.8	0.03
BAAP07C1001AAWT	4732	2.5	WH	3.8	0.03
BAAP09A1001AABK	8484	4	BK	4.7	0.06
BAAP09C1001AABE	4640	4	BU	4.7	0.06
BAAP09C1001AAHN	8495	4	GNYE	4.7	0.06
BAAP09C1001AARD	6347	4	RD	4.7	0.06
BAAP09C1001AAWT	8207	4	WH	4.7	0.06



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Item Codes (continued)

Material No.	Old Code	Area mm ²	Description	Nom Dia mm	Approx Mass kg/m
V75 Insulation					
BAAP11A1001AABK	7852	6	BK	5.3	0.08
BAAP11A1001AABE	8105	6	BU	5.3	0.08
BAAP11A1001AAHN	6112	6	GNYE	5.3	0.08
BAAP11A1001AARD	9844	6	RD	5.3	0.08
BAAP11A1001AAWT	4875	6	WH	5.3	0.08
BAAP13A1001AABK	3271	10	BK	6.2	0.12
BAAP13A1001AABE	8883	10	BU	6.2	0.12
BAAP13A1001AAHN	3513	10	GNYE	6.2	0.12
BAAP13A1001AARD	8770	10	RD	6.2	0.12
BAAP13A1001AAWT	4096	10	WH	6.2	0.12
BAAP15AA001AABK	7077	16	BK	7.2	0.18
BAAP15AA001AABE	7481	16	BU	7.2	0.18
BAAP15AA001AAHN	4462	16	GNYE	7.3	0.18
BAAP15AA001AARD	1499	16	RD	7.2	0.18
BAAP15AA001AAWT	3114	16	WH	7.2	0.18
BAAP16AA001AACX	3897	25	BK	8.9	0.28
BAAP16AA001AABF	5672	25	BU	8.9	0.28
BAAP16AA001AAHT	6320	25	GNYE	8.9	0.28
BAAP16AA001AAJB	3825	25	RD	8.9	0.28
BAAP16AA001AAWV	7361	25	WH	8.9	0.28
BAAP18AA001AACX	7395	35	BK	10.1	0.38
BAAP18AA001AABF	8067	35	BU	10.1	0.38
BAAP18AA001AAHT	2057	35	GNYE	10.1	0.38
BAAP18AA001AAJB	4928	35	RD	10.1	0.37
BAAP18AA001AAWV	9190	35	WH	10.1	0.38
BAAP19AA001AAHT	9988	50	GNYE	11.8	0.51
BAAP19AA001AAJB	3629	50	RD	11.8	0.51
-	6392	70	BK	13.5	0.72
BAAP20AA001AAHT	5680	70	GNYE	13.5	0.72
-	2176	70	RD	13.5	0.72
-	4665	95	BU	15.8	1.00
BAAP21AA001AAHT	5987	95	GNYE	15.8	1.00
-	2204	95	RD	15.8	1.00
BAAP23AA001AAHT	7379	120	GNYE	17.5	1.23
-	1085	120	RD	17.5	1.23
-	7822	150	GNYE	19.4	1.67

Note: Conductors 1.5 mm² and above are circular stranded.

Technical Information (Current Rating)

Conductor Size mm ²	Enclosed Conduit in Air		Voltage Drop mV/A.m	
				
	Single Phase	Three Phase	Single Phase	Three Phase
1.0	15	13	54.1	46.8
1.5	18	16	34.7	30.0
2.5	25	23	18.9	16.4
4	34	30	11.8	10.2
6	43	39	7.50	6.49
10	60	54	4.46	3.86
16	81	71	2.81	2.43
25	111	99	1.78	1.54
35	131	114	1.29	1.12
50	160	143	0.963	0.834
70	200	177	0.680	0.589
95	239	205	0.507	0.439
120	285	251	0.415	0.359
150	319	285	0.352	0.305

Note:

The values in this table have been obtained from AS/NZS 3008.1.2:1998 for typical New Zealand installation conditions of:- Ambient Air Temperature 30°C

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