

Flexible Earths

VNR/Plain Copper



Application:

Industrial sub-distribution board, transformers, generators and wherever large flexible earths are required

Benefits	
Easy to Install	Flexible cable using class 5 conductors
High Temperature Rating	Allows for operation in high temperature applications
Extremely Flexible	VNR insulation allows for easy insulation in confined areas
Features	
✓	Fine stranded conductors for high flexing
✓	RoHS compliant to European environmental requirements
✓	VNR 90 insulation for high ambient temperature applications
✓	Highly flexible VNR insulation for easy bending in restricted places
Construction	
Conductor	Plain annealed copper wire, class 5
Insulation	VNR 90 Vinyl - Nitrile Rubber
Colours	Green/yellow
Ratings	
Temperature	0°C to + 90°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1



Flexible Conductor:
Class 5



Copper



Minimum Service
Temperature:
0°C



Maximum Service
Temperature:
90°C



Maximum Short Circuit
Temperature:
160°C (Max 5s)



Impact Resistant



Abrasion Resistant



Chemical and Oil Resistant



Flame
Non-Propagation



Minimum Recommended
Bend Radius Fixed 4 x OD

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Tullamarine VIC 3043
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NEWCASTLE
64 Orlando Road
Lambton NSW 2299
Phone: 02 4956 2044
Fax: 02 4956 1983

WESTERN AUSTRALIA
1 Karratha St
Welshpool WA 6106
Phone: 08 9351 9966
Fax: 08 9356 2522



Flexible Earth Cables - VNR/Plain Copper

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
20111AGNYW	16	182/0.32	7.6	91	200
20112AGNYW	25	308/0.32	9.5	121	300
20113AGNYW	35	434/0.32	10.7	150	390
20114AGNYW	50	627/0.32	13.7	189	570
20115AGNYW	70	872/0.32	16.7	238	750
20116AGNYW	95	1176/0.32	18.0	287	1080
20117AGNYW	120	1480/0.32	18.7	341	1460

*Current ratings based on AS/NZS3008.1.1:2009 table 4, column 3



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Flexible Earths

PVC/Tinned Copper



Application:

Industrial sub-distribution board, transformers, generators and wherever large flexible earths are required

Benefits	
Easy to Install	Flexible cable using class 5 conductors
Easy to Solder	Tinned copper conductors for easy adhesion
Marine Applications	Tinned copper conductors minimises corrosion in marine environments
High Temperature Rating	Allows for operation in high temperature applications*
Features	
✓ Tinned copper strands for corrosion protection	
✓ Fine stranded conductors for high flexing	
✓ RoHS compliant PVC to European environmental requirements	
✓ V90-HT insulation for high ambient temperature applications	
✓ V90-HT insulation for long term durability and flexibility	
Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Colours	Green/yellow
Ratings	
Temperature	0°C to +90°C (Continuous) 0°C to +105°C (Limited duration)*
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1



Flexible Conductor:
Class 5/6



Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
0°C



Maximum Service
Temperature:
90°C



Maximum Short Circuit
Temperature:
160°C (Max 5s)



Impact Resistant



Abrasion Resistant



Chemical and Oil Resistance



Flame Non-Propagation



Minimum Recommended
Bend Radius Fixed 4 x OD

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Flexible Earth Cables - PVC/Tinned Copper

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating [†] Amps	Weight kg/km
29823GNYWS	16	224/0.30	7.5	91	199
12024GNYWS	25	350/0.30	9.8	121	277
12036GNYWS	35	1121/0.20	10.8	150	384
29828GNYWS	50	1568/0.20	13.6	189	534
20118GNYWS	70	2226/0.20	16.3	238	738
20119GNYWS	95	3021/0.20	18.0	287	999
20120GNYWS	120	3800/0.20	19.2	341	1240

*See Australian Standards AS/NZS 3808.1.1:2009 for details

[†]Current ratings based on AS/NZS3008.1.1:2009 table 4, column 3

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