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Bambach

SPECIALISED & INDUSTRIAL CABLES

28th Edition

Australian Owned and Operated Since 1936



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Introduction

Established in 1936, Bambach Wires & Cables are proud to be a fully Australian owned and operated company.

We seek to be our customers' preferred partner for low and medium voltage cabling products. Whether you need new or unique wire and cable technology, or just someone you can count on to deliver the basics, Bambach can supply

the appropriate product. We manufacture a large range of cables in our Sydney factory and have an extensive network of local and high quality European manufacturers to meet your cable requirements.

We can supply	
Braids & Terminated Braids	Mining Cable
Control Cable	Navy Cable
Data & Instrumentation Cable	Pump Cable
Defence Approved Cable	PVC Flexible Cable
EMC/VSD Cable	Rail Cable
High Temperature Cable	Rope
Lighting Cable	Rubber Cable
Litz Wire	Solar Cable
LSZH Cable	Silicon Insulated
Marine Cable	Telephone Cable
Meter Sealing Wire	Traffic Cable

Our head office, in Sydney, combines production, sales and administration under one roof. Our sales branches in Newcastle, Brisbane, Melbourne and Perth hold stock for convenient, local service and supply. Bambach Wires & Cables is committed to providing the right solution for your needs and to ensure your total satisfaction. Our dedicated and experienced staff draw on over 70 years of industry knowledge and experience, the

highest quality standards, and continual monitoring of our performance to ensure the optimum product and service you require. The content of these pages is only an indication of our capabilities. If you do not find what you are looking for please do not hesitate to contact our sales team for further information.

Quality Assurance



As an AS/NZS ISO 9001:2008 certified company, you have the assurance of professionalism and expertise in the development and manufacture of the highest quality specialist industrial cables.

Bambach Wires & Cables are dedicated to quality, customer service and the continual improvement of our business. We are constantly reviewing our products and services and welcome your suggestions for improvement.

Disclaimer

This is a sales catalogue compiled by Bambach Wires and Cables Pty Ltd (BWC). It is intended as a general reference, and does not constitute professional advice or instruction. You should exercise your own skill and care or seek professional advice before installing any wire or cable product. BWC will endeavour to maintain the catalogue current and accurate. BWC provides this catalogue on the basis that BWC is not responsible for any loss or damage arising out of any actions taken on the basis of the catalogue. BWC does not warrant or represent that the information is free from

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Custom Cable Solutions

With your knowledge and our know-how Bambach Wires & Cables can also provide a range of options for customised cable. The composition of a cable can be altered in order to meet your specific requirements, or to meet local or international specifications, such as AS/NZS1125; AS/NZS3808; AS/NZS5000; AS/NZS3166; AS/NZS3191; AS/NZS3158; AS/NZS1125 IEC 60332-1; IEC 60332-3; IEC 60228; IEC 60287; DIN 51900 DET Norske Veritas (DNV), Germanischer Lloyd (GL), Lloyds Register (LR), Gost R, Bureau Vertas (BV), VDE, ROHS

Customisation does not have to be as complex as developing a new cable from scratch, it can be as simple as a modification or addition to an existing cable from our range.



You will find this symbol throughout our catalogue which identifies the cable as being manufactured in Australia by Bambach Wires & Cables. We maintain a flexible manufacturing operation in Sydney with some of the smallest minimum order quantities and shortest lead times in our market place and any of these cables can be customised to suit your needs.

Insulation and Sheathing Compounds

Compound	Mechanical Strength Low Temperature	Mechanical Strength High Temperature	Flexibility	Abrasion And Impact Resistance	Electrical Performance	Chemical Performance	Fire Performance
PVC Poly Vinyl Chloride	Good	Average	Excellent	Average	Good	Good	Good
PE Polyethylene Low Density High Density Cellular	Excellent	Poor	Average	Average	Excellent	Good	Poor
XLPE Cross-Linked Polyethylene	Excellent	Excellent	Average	Excellent	Excellent	Good	Average
PUR Polyurethane	Excellent	Good	Excellent	Excellent	Poor	Excellent	Excellent
LSZH – HF90 Low Smoke, Zero Halogen	Good	Average	Average	Good	Good	Excellent	Excellent
X-HF-110 Cross-Linked Polyolefine	Excellent	Excellent	Good	Good	Good	Good	Excellent
TPV Thermo Plastic Vulcanizate	Excellent	Average	Excellent	Good	Excellent	Excellent	Average
Nylon Polyamide	Good	Good	Poor	Good	Poor	Excellent	Poor

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LSZH 110°C Flexible

SafeX110 – Single Core Flexible Tinned Copper Cable



Application:











Wiring of switchboards, control, general wiring, instrumentation and communication systems. Used where low smoke, zero halogen (LSZH) is needed and where higher current ratings are required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to enhance performance
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emitted in a fire situation
Higher Temperature Rating	110°C temperature rating allows for higher current carrying capacity
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Extremely Flexibility	Class 5 or 6 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion

Features	
✓	Up to 50% higher current ratings compared to PVC flexible cable
✓	Reduced overall diameters compared with PVC flexible cable
✓	Cross-linked insulation forms a stronger structure and does not melt or flow when heated
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	RoHS compliant to European environmental requirements

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5 or 6
Insulation	X-HF-110
Colours	Red, black, blue, white, brown, grey, orange, purple, pink, yellow, green and green/yellow. Others available upon request

Ratings	
Temperature	-40°C to +110°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1

 Flexible Conductor: Class 5/6	 Oxygen Free, Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -40°C	 Maximum Service Temperature: 110°C
 Maximum Short Circuit Temperature: 250°C (Max 5s)	 Cross-Linked Insulation and Sheath	 Impact Resistant	 Abrasion Resistant Excellent
 Chemical & Oil Resistant	 UV Resistant	 Flame Non-Propagation	 Low Temperature Resistance: Excellent
 Low Smoke Zero Halogen	 Metre Marking ≥ 25mm ²	 Minimum Recommended Bend Radius Fixed 4 x OD	

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SafeX110 - Single Core Flexible Tinned Copper Cables

Bambach Item Code	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
26697	0.5	16/0.20	2.3	10	10
26698	0.75	24/0.20	2.5	16	14
26699	1	32/0.20	2.7	26	17
26700	1.5	30/0.25	3.0	32	21
26701	2.5	50/0.25	3.4	43	32
26702	4	56/0.30	4.0	57	47
26703	6	84/0.30	4.7	73	68
26704	10	140/0.30	5.8	102	109
26705	16	224/0.30	6.9	135	168
26706	25	350/0.30	8.8	178	264
26707	35	494/0.30	10.2	221	365
26708	50	684/0.30	12.6	279	509
26709	70	969/0.30	15.7	351	734
26710	95	1292/0.30	17.1	422	959
26711	120	1653/0.30	18.4	500	1197

*Current ratings based on AS/NZS3008.1.1:2009 table 6 column 3

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LSZH 110°C Flexible

SafeX110 – Single Core, Double Insulated (SDI) Flexible Tinned Copper Cable



Application:

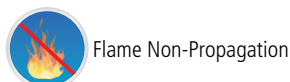
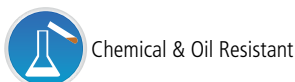
Power supply in demanding applications, wiring of switchboards, general power wiring, industrial applications and communication systems. Used where low smoke, zero halogen (LSZH) is needed and where higher current ratings are required.

Benefits	
Cross-Linked	Insulation and sheath are fully cross-linked to enhance performance
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emitted in a fire situation
Higher Temperature Rating	110°C temperature rating allows for higher current carrying capacity
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Extremely Flexibility	Class 5 or 6 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion

Features	
✓	Up to 50% higher current ratings compared to PVC flexible cable
✓	Reduced overall diameters compared with PVC flexible cable
✓	Cross-linked insulation and sheath form a stronger structure and do not melt or flow when heated
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	RoHS compliant to European environmental requirements

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5 or 6
Insulation	X-HF-110
Sheath	HFS-110-TP
Colours	Natural core, orange sheath

Ratings	
Temperature	-40°C to + 110°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



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SafeX110 – Single Core, Double Insulated (SDI) Flexible Tinned Copper Cables

Bambach Item Code	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
26796	2.5	50/0.25	6.2	43	65
26797	4	56/0.30	6.8	57	84
26798	6	84/0.30	7.5	73	111
26799	10	140/0.30	8.6	102	160
26800	16	224/0.30	9.3	135	218
26801	25	350/0.30	11.0	178	324
26802	35	494/0.30	12.9	221	439
26803	50	684/0.30	14.6	279	586
26804	70	969/0.30	17.9	351	826
26805	95	1292/0.30	19.1	422	1041
26806	120	1653/0.30	20.6	500	1311

*Current ratings based on AS/NZS3008.1.1:2009 Table 6, column 3

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LSZH 110°C Flexible

SafeX110 – Multi-Core Flexible Tinned Copper Cable



Application:

Power supply in demanding applications, wiring of switchboards, control, general wiring, industrial applications and communication systems. Used where low smoke, zero halogen (LSZH) is needed and where higher current ratings are required.

Benefits	
Cross-Linked	Insulation and sheath are fully cross-linked to enhance performance
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emitted in a fire situation
Higher Temperature Rating	110°C temperature rating allows for higher current carrying capacity
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Extremely Flexibility	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion

Features	
✓	Up to 50% higher current ratings compared to PVC flexible cable
✓	Reduced overall diameters compared with PVC flexible cable
✓	Cross-linked insulation and sheath form a stronger structure and do not melt or flow when heated
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	RoHS compliant to European environmental requirements

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	X-HF-110
Sheath	HFS-110-TP
Colours	2 Core – Light blue, brown 2 Core + E – Light blue, brown, green/yellow 3 Core + E – Light blue, brown, black, green/yellow 4 Core + E – Light blue, brown, black, grey, green/yellow

Ratings	
Temperature	-40°C to + 110°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1

 Flexible Conductor: Class 5	 Oxygen Free, Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -40°C	 Maximum Service Temperature: 110°C	 Maximum Short Circuit Temperature: 250°C
 Cross-Linked Insulation and Sheath	 Impact Resistant	 Abrasion Resistant	 Chemical & Oil Resistant	 UV Resistant
 Flame Non-Propagation	 Low Temperature Resistance: Excellent	 Low Smoke Zero Halogen	 Metre Marking	 Minimum Recommended Bend Radius Fixed 6 x OD

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SafeX110 – Multi-Core Flexible Tinned Copper Cables

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
24200	2 x 0.75	24/0.20	8.7	7.5	90
24201	2 x 1	32/0.20	9.1	23	98
24202	2 x 1.5	30/0.25	9.6	28	113
24203	2 x 2.5	50/0.25	10.5	38	143
24204	2 x 4	56/0.30	11.6	50	186
24300	3 x 1.5	30/0.25	10.0	28	135
24301	3 x 2.5	50/0.25	11.0	38	176
24302	3 x 4	56/0.30	12.3	50	235
24303	3 x 6	84/0.30	13.8	63	312
24304	3 x 10	140/0.30	16.2	88	455
24305	3 x 16	224/0.30	17.7	116	643
24306	3 x 25	350/0.30	22.6	154	980
24307	3 x 35	494/0.30	25.2	190	1303
24400	4 x 1.5	30/0.25	10.8	24	164
24401	4 x 2.5	50/0.25	11.9	32	216
24402	4 x 4	56/0.30	13.3	42	294
24403	4 x 6	84/0.30	15.0	54	392
24404	4 x 10	140/0.30	17.7	75	580
24405	4 x 16	224/0.30	20.3	99	839
24406	4 x 25	350/0.30	24.9	131	1267
24407	4 x 35	494/0.30	28.0	162	1707
24500	5 x 1.5	30/0.25	11.6	24	189
24501	5 x 2.5	50/0.25	12.8	32	257
24502	5 x 4	56/0.30	14.4	42	352
24503	5 x 6	84/0.30	16.3	54	473
24504	5 x 10	140/0.30	19.3	75	703
24505	5 x 16	224/0.30	22.3	99	1027
24506	5 x 25	350/0.30	27.4	131	1555
24507	5 x 35	494/0.30	30.9	162	2108

*Current ratings based on AS/NZS3008.1.1:2009 table 12, column 5 and table 15, column 5 or table 16.

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LSZH 110°C Flexible

SafeX110 – Variable Speed Drive (VSD) Cable



Application:

Variable speed drives (VSDs), equipment control and measurement. All applications requiring electrical/electronic screening of cable and where LSZH or higher current ratings are required.

Benefits	
Cross-Linked	Insulation and sheath are fully cross-linked to enhance performance
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emitted in a fire situation
Higher Temperature Rating	110°C temperature rating allows for higher current carrying capacity
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Extremely Flexibility	Class 5 flexible conductor stranding
Excellent Screening	Huge reduction in electrical and electronic emissions from cable

Features	
✓	Up to 50% higher current ratings compared to PVC flexible cable
✓	Reduced overall diameters compared with PVC flexible cable
✓	Cross-linked insulation and sheath form a stronger structure and do not melt or flow when heated
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	RoHS compliant to European environmental requirements
✓	Tinned copper braid and foil screen provides excellent screening from external EMI

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	X-HF-110
Screen	Aluminium/PET tape with oxygen free tinned copper wire braid, 100% coverage
Sheath	HFS-110-TP
Colours	2 Core + E – Light blue, brown, green/yellow 3 Core + E – Light blue, brown, black, green/yellow 4 Core + E – Light blue, brown, black, grey, green/yellow

Ratings	
Temperature	-40°C to + 110°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1

 Flexible Conductor: Class 5	 Oxygen Free, Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -40°C	 Maximum Service Temperature: 110°C	 Maximum Short Circuit Temperature: 250°C
 Cross-Linked Insulation and Sheath	 Impact Resistant	 Abrasion Resistant	 Chemical & Oil Resistant	 Flame Non-Propagation
 UV Resistant	 Low Temperature Resistance: Excellent	 Low Smoke Zero Halogen	 Metre Marking	 Minimum Recommended Bend Radius Fixed 8 x OD

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SafeX110 – Variable Speed Drive Cable - LSZH

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
24310	3 x 1.5	30/0.25	10.8	28	171
24311	3 x 2.5	50/0.25	11.9	38	231
24312	3 x 4	56/0.30	13.2	50	294
24313	3 x 6	84/0.30	14.7	63	376
24314	3 x 10	140/0.30	17.1	88	538
24315	3 x 16	224/0.30	19.4	116	747
24316	3 x 25	350/0.30	23.5	154	1090
24317	3 x 35	494/0.30	26.1	190	1425
24410	4 x 1.5	30/0.25	11.8	24	219
24411	4 x 2.5	50/0.25	12.8	32	275
24412	4 x 4	56/0.30	14.2	42	355
24413	4 x 6	84/0.30	15.9	54	461
24414	4 x 10	140/0.30	18.6	75	665
24415	4 x 16	224/0.30	21.2	99	938
24416	4 x 25	350/0.30	25.8	131	1387
24417	4 x 35	494/0.30	28.9	162	1838
24510	5 x 1.5	30/0.25	12.6	24	251
24511	5 x 2.5	50/0.25	13.7	32	316
24512	5 x 4	56/0.30	15.3	42	419
24513	5 x 6	84/0.30	17.2	54	557
24514	5 x 10	140/0.30	20.2	75	793
24515	5 x 16	224/0.30	23.2	99	1137
24516	5 x 25	350/0.30	28.5	131	1697

*Current ratings based on AS/NZS3008.1.1:2009 table 12, column 5 and table 15, column 5 or table 16.

**Not all part numbers are available ex-stock

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LSZH 145°C Flexible

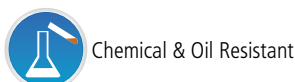
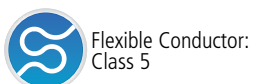
BETAtherm® Single Core



Application:

Wiring of switchboards, control, instrumentation, marine and communication equipment

Benefits	
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emission in a fire situation
High Temperature Rating	High temperature rating can allow reduced sizes, saving space and weight
High Flexibility	Class 5 flexible conductor stranding
Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Marine Approved	Marine class approvals – Lloyds, BV, DNV, GL, VDE & Gost R
Features	
✓	Tinned copper strands for corrosion protection
✓	145°C halogen free insulation for high ambient temperature applications
✓	Tinned copper for high conductivity soldered connection
✓	Fine stranded conductors for high flexing
✓	RoHS compliant to European standards
✓	Marine class approvals: Lloyd's Register, DNV, BV and GL
✓	Electron beam crosslinked polyolefin copolymer for enhanced mechanical strength
Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	Electron beam crosslinked polyolefin copolymer halogen free 145°C
Ratings	
Temperature	-55°C to +145°C
Voltage	$U_0/U \leq 1 \text{ mm}^2$ 300 / 500 V $U_0/U \geq 1.5 \text{ mm}^2$ 450 / 750 V For fixed and protected installation $U_0/U \geq 1.5 \text{ mm}^2$ 600 / 1000 V
Applicable Standards	IEC 60332-1, IEC 60332-3, IEC 60228, DIN 51900



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BETAtherm® 145 - Single Core

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
13137A	0.25	14 /0.15	1.6	11	5
13246A	0.5	16/0.20	1.9	15	9
13247A	0.75	24/0.20	2.2	20	13
13248A	1	32/0.20	2.4	25	15
13245A	1.5	30/0.25	3.0	31	22
13249A	2.5	50/0.25	3.7	41	34
13251A	4	56/0.30	4.2	56	47
13252A	6	84/0.30	4.7	72	72
13253A	10	80/0.40	6.1	100	120
13139A	16	126/0.40	7.5	132	190
13140A	25	196/0.40	9.0	174	290
13141A	35	280/0.40	10.1	215	400
13142A	50	399/0.40	12.7	264	550
13143A	70	570/0.40	14.7	340	770
13144A	95	475/0.50	16.4	415	1010

Sizes up to 630mm² available on request.

Ship and offshore approvals

VDE permission no. 9887

Germanischer Lloyd (GL) certificate no. 96630 - 94 HH

Lloyd's Register (LR) certificate no. 03 / 20056

BUREAU VERITAS (BV) certificate no. 13349 / BO BV

DNV certificate no. E-7684

Gost R: Certificate no. 83 B 00 682



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LSZH 145°C Flexible



BETAflam® Multi-Core



Application:

Wiring of switchboards, control, instrumentation, marine and communication equipment

Benefits	
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emission in a fire situation
High Temperature Rating	High temperature rating can allow reduced sizes, saving space and weight
High Flexibility	Class 5 flexible conductor stranding
Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Marine Approved	Marine class approvals – Lloyds, BV, DNV, GL, VDE & Gost R
Features	
✓	Tinned copper strands for corrosion protection
✓	145°C halogen free insulation for high ambient temperature applications
✓	Tinned copper for high conductivity soldered connection
✓	Fine stranded conductors for high flexing
✓	RoHS compliant to European standards
✓	Marine class approvals: Lloyd's Register, DNV, BV and GL
✓	Electron beam crosslinked polyolefin copolymer for enhanced mechanical strength
Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	Electron beam crosslinked polyolefin copolymer halogen free 145°C
Sheath	Electron beam crosslinked polyolefin copolymer halogen free 145°C
Ratings	
Temperature	-55°C to +145°C
Voltage	$U_0/U \leq 1 \text{ mm}^2$ 300 / 500 V $U_0/U \geq 1.5 \text{ mm}^2$ 450 / 750 V For fixed and protected installation $U_0/U \geq 1.5 \text{ mm}^2$ 600 / 1000 V
Applicable Standards	IEC 60332-1, IEC 60332-3, IEC 60228, DIN 51900

 Flexible Conductor: Class 5	 Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -55°C	 Maximum Service Temperature: 145°C
 Maximum Short Circuit Temperature: 280°C (Max 5s)	 Cross-Linked Insulation and Sheath	 Impact Resistant	 Abrasion Resistant Excellent
 Grease and Mineral Oil Resistant	 Chemical & Oil Resistant	 Flame Non-Propagation	 Low Temperature Resistance: Excellent
 Low Smoke Zero Halogen	 Minimum Recommended Bend Radius Fixed 4 x OD		

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BETAflam® 145 Flex - Multi-Core

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
13060A	2 x 1.5	30/0.25	7.6	23	71
13206A	3 x 1	32/0.20	6.8	19	66
13270A	3 x 1.5	30/0.25	8.1	23	96
13268A	3 X 2.5	50/0.25	9.8	31	145
13064A	3 x 6	84/0.30	12.4	53	309
13266A	4 x 1.5	30/0.25	8.8	23	123
13264A	4 x 2.5	50/0.25	10.8	31	189
13263A	4 x 4	56/0.30	12.2	41	260
13262A	4 x 6	84/0.30	13.8	53	375
13066A	4 x 10	80/0.40	17.5	72	627
13061A	5 x 1.5	30/0.25	9.8	23	156
13271A	5 X 2.5	50/0.25	12.0	31	235
13065A	5 X 6	84/0.30	15.4	53	494
13261A	7 x 1.5	30/0.25	12.0	23	224
13062A	10 X 1.5	30/0.25	14.6	23	314
13258A	12 X 1.5	30/0.25	14.6	23	346
13257A	16 X 1.5	30/0.25	16.2	23	452

Other sizes & screened versions available on request. *Current ratings based on ambient temperature of 40°C as per IEC 60287

Ship and offshore approvals

Germanischer Lloyd (GL) certificate no. 96627-94HH
Lloyd's Register (LR) certificate no. 03/20057
BUREAU VERITAS (BV) certificate no. 13348/BO BV

DET Norske Veritas (DNV) certificate no. E-8948/8950

Gost R certificate no. 83 B 00 682

Current ratings based on ambient temperature of 40°C as per IEC 60287



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PVC Flexible

Single Core Flexible Tinned Copper Cables



Application:

Wiring of switchboards, control, instrumentation and communication systems, general wiring

Benefits	
Extreme Flexibility	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion
High Temperature Rating	Allows for operation in high temperature applications*
Easy Identification	Hash marking and line striping available in a variety of colours
Wide Choice	12 colours available, many stocked for your convenience
Features	
✓	Tinned copper strands for corrosion protection
✓	Oxygen free tinned copper for high conductivity soldered connections
✓	Class 5 conductors for extreme flexibility for those awkward to get to connections
✓	RoHS compliant PVC to European environmental requirements
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility
✓	Distinct hash marking for complex jobs with many colour combinations available
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5 or 6
Insulation	V90-HT PVC
Colours	Red, black, blue, white, brown, grey, orange, purple, pink, yellow, green and green/yellow. Others available upon request
Ratings	
Temperature	-10°C to + 90°C (Continuous) -10°C to + 105°C (Limited duration)
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5/6



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°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



Metre Marking $\geq 25\text{mm}^2$



Minimum Recommended
Bend Radius Fixed 4 x OD

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Single Core Flexible Tinned Copper Cables

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No of Strands/mm	Nom Ø mm	Current Rating [†] Amps	Weight kg/km
21620	0.5	16/0.20	2.5	3	11
24600	0.75	24/0.20	2.8	7.5	14
25620	1	32/0.20	2.9	10	17
26620	1.5	30/0.25	3.2	16	22
27520	2.5	50/0.25	3.9	20	35
28320	4	56/0.30	4.7	25	54
28970	6	84/0.30	5.4	49	76
29810	10	140/0.30	6.3	69	121
29823	16	224/0.30	7.7	91	199
12024	25	350/0.30	9.8	121	277
12036	35	494/0.30	10.8	150	384
29828	50	684/0.30	13.6	189	534
20118	70	969/0.30	16.3	238	738
20119	95	1292/0.30	18.0	287	999
20120	120	1653/0.30	19.3	341	1240

*See Australian Standards AS/NZS3000/3808 for details

Cables insulated with V90-HT PVC insulation are allowed to operate for limited periods in applications where the temperature in the cable may rise to 105°C

†Current ratings based on AS/NZS3008.1.1:2009 table 4 column 3 and table 16

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PVC Flexible Cords

Light Duty Multi-Core Flexible Tinned Copper Cable



Application:

For use in lighting, appliance leads, plug leads and control wiring

Benefits	
Prescribed Items	Selected 2 and 3 core cables on prescribed items list
Extreme Flexibility	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion
Longer life	V90-HT/5V90 insulation and sheath for double the expected lifespan of V75/4V75
Custom Marking	Customers own printing available upon request
Wide choice	Different sheath colours available upon request
Features	
✓	Tinned copper strands for corrosion protection
✓	Oxygen free tinned copper for high conductivity soldered connection
✓	Class 5 conductors for extreme flexibility for those awkward to get to connections
✓	RoHS compliant PVC to European environmental requirements
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility
Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Sheath	5V90 PVC
Core Colours	2 Core - Brown, light blue
	3 Core - Brown, light blue, green/yellow
Sheath Colours	White, black, grey – Others available upon request
Ratings	
Temperature	-10°C to + 90°C
Voltage	250/250V
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°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



Metre Marking



Minimum Recommended
Bend Radius Fixed 4 x OD

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Light Duty Multi-Core Flexible Tinned Copper Cable

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands / mm	Nom Ø	Current Rating† Amps	Weight kg/km
35200	2 x 0.75	24/0.20	5.4	7.5	43
35201	3 x 0.75	24/0.20	5.8	7.5	53

*Current ratings based on AS/NZS3008.1.1:2009 table 16



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PVC Flexible Cords

Ordinary Duty Multi-Core Flexible Tinned Copper Cable



Application:

For use in lighting, appliance leads, plug leads and control wiring

Benefits	
Prescribed Items	Selected 2 and 3 core cables on prescribed items list
Extreme Flexibility	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion
Longer life	V90-HT/5V90 insulation and sheath for double the expected lifespan of V75/4V75
Custom Marking	Customers own printing available upon request
Wide choice	Different sheath colours available upon request

Features	
✓	Tinned copper strands for corrosion protection
✓	Oxygen free tinned copper for high conductivity soldered connection
✓	Class 5 conductors for extreme flexibility for those awkward to get to connections
✓	RoHS compliant PVC to European environmental requirements
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility

Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Sheath	5V90 PVC
Core Colours	2 Core - Brown, light blue
	3 Core – Brown, light blue, green/yellow
	4 Core – Brown, black, light blue, green/yellow
	5 Core – Brown, black, grey, light blue, green/yellow
Sheath Colours	White, black, grey, orange– Others available upon request

Ratings	
Temperature	-10°C to + 90°C
Voltage	250/440V
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°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



Metre Marking



Minimum Recommended
Bend Radius Fixed 4 x OD

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Heavy Duty Multi-Core Flexible Tinned Copper Cable

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands / mm	Nom Ø	Current Rating† Amps	Weight kg/km
35300	2 x 0.75	24/0.20	6.2	7.5	54
35301	2 x 1	32/0.20	6.6	10	63
35302	2 x 1.5	30/0.25	7.5	15	84
35303	3 x 0.75	24/0.20	6.6	7.5	64
35304	3 x 1	32/0.20	7.0	10	77
35305	3 x 1.5	30/0.25	8.2	15	106
35306	3 x 2.5	50/0.25	10.0	20	166
35307	3 x 4	56/0.30	11.3	25	227
35308	4 x 0.75	24/0.20	10.8	7.5	79
35309	4 x 1	32/0.20	11.0	10	98
35310	4 x 1.5	30/0.25	9.2	15	137
35311	4 x 2.5	50/0.25	10.9	20	205
35312	4 x 4	56/0.30	12.3	25	286
35313	5 x 0.75	24/0.20	8.0	7.5	99
35314	5 x 1	32/0.20	8.6	10	118
35315	5 x 1.5	30/0.25	10.2	15	169
35316	5 x 2.5	50/0.25	12.1	20	254
35317	5 x 4	56/0.30	13.8	25	361

*Current ratings based on AS/NZS3008.1.1:2009 table 16

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PVC Flexible Cords

Heavy Duty Multi-Core Flexible Tinned Copper Cable



Application:

For use as extension leads in heavy duty applications

Benefits	
Prescribed Items	Selected 2 and 3 core cables on prescribed items list
Extreme Flexibility	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy adhesion
Longer life	V90-HT/5V90 insulation and sheath for double the expected lifespan of V75/4V75
Custom Marking	Customers own printing available upon request
Wide choice	Different sheath colours available upon request
Features	
✓	Tinned copper strands for corrosion protection
✓	Oxygen free tinned copper for high conductivity soldered connection
✓	Class 5 conductors for extreme flexibility for those awkward to get to connections
✓	RoHS compliant PVC to European environmental requirements
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility
Construction	
Conductor	Tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Sheath	5V90 PVC
Core Colours	3 Core – Brown, light blue, green/yellow
	4 Core – Brown, black, light blue, green/yellow
	5 Core – Brown, black, grey, light blue, green/yellow
Sheath Colours	Black, grey, orange– Others available upon request
Ratings	
Temperature	-10°C to + 90°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°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



Metre Marking



Minimum Recommended
Bend Radius Fixed 4 x OD

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Heavy Duty Multi-Core Flexible Tinned Copper Cable

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands / mm	Nom Ø	Current Rating† Amps	Weight kg/km
35400	3 x 1	32/0.20	9.1	10	113
35401	3 x 1.5	30/0.25	10.0	15	143
35402	3 x 2.5	50/0.25	11.8	20	209
35403	4 x 1	32/0.20	10.0	10	140
35404	4 x 1.5	30/0.25	11.0	15	177
35405	4 x 2.5	50/0.25	13.0	20	260
35406	5 x 2.5	50/0.25	14.3	20	300

*Current ratings based on AS/NZS3008.1.1:2009 table 16

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Rubber HO7 RN-F


















Single Core - Double Insulated (SDI) Flexible Cable



Application:

To supply power in demanding applications in the lighting industry, switchboards, generators, battery leads, welding flex, industrial applications and submersible pumps

Benefits	
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation & sheath for use in confined & difficult applications. Minimum bending radius 4 x diameter
Suitable for Outdoors	UV resistant sheath extends life in exposed environments
Submersible	Suitable for permanent deep water installations
Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
Chemical Resistance	Resistant to a range of chemicals & oils
Features	
✓	Fine stranded conductors for high reliability in flexing applications
✓	RoHS compliant to European environmental requirements
✓	Thermosetting rubber for excellent strength retention in high ambient temperature applications
✓	Metre marked
Construction	
Conductor	Plain annealed copper wire, class 5
Insulation	Thermosetting rubber (EPR type E14)
Sheath	Thermosetting rubber (CPE type EM2)
Colours	Black core, black sheath
Ratings	
Temperature	-25°C to + 90°C
Voltage	0.6/1kV
Applicable Standards	IEC 60332-1, HD 22.4, UNE 21027-4, EN 60228

 Flexible Conductor: Class 5	 Copper	 Minimum service Temperature: -25°C	 Maximum service Temperature: 90°C	 Maximum Short Circuit Temperature: 250°C (Max 5s)
 Impact Resistance: AG2. Medium Impact	 Abrasion Resistance: Excellent	 Grease & Mineral Oils Resistant	 Chemical & Oil Resistant	 Flame Non-Propagation
 UV Resistant	 Water Resistance: AD8 Submerged	 Low Temperature Resistant	 Anti-twist Resistance: Excellent	 Metre Marking
 Submersible Pumps	 Minimum Recommended Bend Radius Fixed 4 x OD			

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Single Core - Double Insulated (SDI) Flexible Cable

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
51309A	6	84/0.30	8.3	59	116
51310A	10	80/0.40	10.1	83	182
51311A	16	128/0.40	11.4	110	25
51312A	25	200/0.40	13.4	147	361
51313A	35	280/0.40	14.7	183	469
51314A	50	400/0.40	17.5	231	671
51315A	70	356/0.50	19.6	292	892
51316A	95	485/0.50	22	351	114
51317A	120	614/0.50	24.2	418	142
51318A	150	765/0.50	26.6	483	176
51319A	185	944/0.50	28.8	555	209
51320A	240	1225/0.50	32.2	668	271
51321A	300	1551/0.50	34.9	772	331
51322A	400	1995/0.50	39.3	933	427

*Current ratings based on AS/NZS3008.1.1:2009 table 5 column 9. For 3 phase current ratings refer to table 8

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Rubber HO7 RN-F


















Multi-Core Flexible Cable



Application:

To supply power in demanding applications in the lighting industry, switchboards, generators, battery leads, welding flex, industrial applications and submersible pumps

Benefits	
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation & sheath for use in confined & difficult applications. Minimum bending radius 4 x diameter
Suitable for Outdoors	UV resistant sheath allows for installation outside
Submersible	Suitable for permanent deep water installations
Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
Chemical Resistance	Resistant to a range of chemicals & oils
Features	
✓	Fine stranded conductors for high reliability in flexing applications
✓	RoHS compliant to European environmental requirements
✓	Thermosetting rubber for excellent strength retention in high ambient temperature applications
✓	Metre marked
Construction	
Conductor	Plain annealed copper wire, class 5
Insulation	Thermosetting rubber (EPR type E14)
Sheath	Thermosetting rubber (CPE type EM2)
Colours	3 core - Brown, blue, green/yellow 4 Core – Brown, blue, black, green/yellow 5 Core – Black, blue, brown, grey, green/yellow >5 Core – Black with white printed numbers, green/yellow
Ratings	
Temperature	-25°C to + 90°C
Voltage	0.6/1kV
Applicable Standards	IEC 60332-1, HD 22.4, UNE 21027-4, EN 60228

 Flexible Conductor: Class 5	 Copper	 Minimum Service Temperature: -25°C	 Maximum Service Temperature: 90°C	 Maximum Short Circuit Temperature: 250°C (Max 5s)
 Impact Resistant	 Abrasion Resistance	 Grease & Mineral Oils Resistant	 Chemical & Oil Resistant	 Flame Non-Propagation
 UV Resistant	 Water Resistance: AD8 submerged	 Low Temperature Resistance: Excellent	 Anti-twist Resistance: Excellent	 Metre Marking
 Submersible Pumps	 Minimum Recommended Bend Radius Fixed 4 x OD			

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Multi-Core Flexible Cable

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
51260A	2 x 1	32/0.21	8.3	18	92
51261A	2 x 1.5	30/0.26	8.7	23	109
51262A	2 x 2.5	50/0.26	10.6	30	162
51264A	3 x 1	32/0.21	8.9	15	111
51265A	3 x 1.5	30/0.26	9.7	19	137
51266A	3 x 2.5	50/0.26	11.4	26	198
51267A	3 x 4	56/0.31	13.1	34	276
51268A	3 x 6	84/0.31	14.8	43	370
51269A	3 x 10	80/0.41	20.1	61	668
51270A	3 x 16	128/0.41	22.6	81	906
51271A	3 x 25	200/0.41	27.4	108	1360
51276A	4 x 1	32/0.21	9.7	15	134
51277A	4 x 1.5	30/0.26	10.7	19	169
51278A	4 x 2.5	50/0.26	12.6	26	244
51279A	4 x 4	56/0.31	14.4	34	343
51280A	4 x 6	84/0.31	16.7	43	474
51281A	4 x 10	80/0.41	21.6	61	822
51282A	4 x 16	128/0.41	24.6	81	1120
52183A	4 x 25	200/0.41	30.7	108	1730
51284A	4 x 35	280/0.41	33.2	135	2180
51285A	4 x 50	400/0.41	39.2	170	3060
51292A	5 x 1.5	30/0.26	11.6	19	206
51293A	5 x 2.5	50/0.26	14.0	26	299
51294A	5 x 4	56/0.31	16.3	34	431
51295A	5 x 6	84/0.31	18.4	43	585
51296A	5 x 10	80/0.41	24.2	61	1010
51297A	5 x 16	128/0.41	27.1	81	1380
51298A	5 x 25	200/0.41	33.6	108	2110
51323A	5 x 35	280/0.41	36.6	135	2677
51299A	7 x 1.5	30/0.26	14.9	10	307
51300A	7 x 2.5	50/0.26	17.1	14	434
51301A	12 x 1.5	30/0.26	18.0	8	456
51302A	12 x 2.5	50/0.26	22.1	11	654
51308A	18 x 1.5	30/0.26	21.9	7	646

*Current ratings based on AS/NZS3008.1.1:2009 table 11 column 6, table 14 column 6 and table 22 row 2

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EMC/VSD Cable














Vari-Flex - Flexible Variable Speed Drive Cable - XLPE



Application:

Variable speed drives (VSDs), equipment control and measurement. All applications requiring electrical/electronic screening of cable.

Benefits	
Excellent Screening	Huge reduction in electrical and electronic emissions from cable
Reduced Noise Effects	Greatly reduces the effects of noise disturbance on cable signals
Easy to Terminate / to Use	Fibrillated non-hygroscopic fillers make cable round and easy to terminate with an EMC gland
Extremely Flexibility	Class 5 flexible conductor stranding and flexible braid stranding
Easy to Solder	Tinned copper conductors for easy adhesion
Features	
✓	Tinned copper braid and foil screen provides excellent screening from external EMI
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Lighter weight and reduced overall diameter
✓	Split earths (6mm ² and larger) provide enhanced harmonics
✓	UV resistant transparent 4V75 PVC sheath
✓	RoHS compliant to European environmental requirements
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	X-90 XLPE
Screening	Oxygen free tinned annealed copper wire braid, minimum coverage of 85%, or Aluminium/PET tape with oxygen free tinned annealed copper wire braid, 100% coverage
Sheath	4V75 PVC
Colours	2 Core + Earth - Blue, brown & green/yellow 3 Core + Earth - Black, blue, brown & green/yellow >= 5 core - white numbered cores and green/yellow
Ratings	
Temperature	-10°C to + 75°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1

 Flexible Conductor: Class 5	 Oxygen Free, Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -10°C	 Maximum Service Temperature: 75°C	 Maximum Short Circuit Temperature: 250°C
 Cross-Linked Insulation	 Impact Resistant	 Abrasion Resistance	 Chemical & Oil Resistant	 UV Resistant
 Flame Non-Propagation	 Metre Marking	 Minimum Recommended Bend Radius Fixed 6 x OD		

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Vari-Flex - Variable Speed Drive Cable - XLPE - Braid and Foil Screen

Bambach Item Code	Construction	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
46028	2 Core + E	1	30/0.20	10.2	15	110
46029	2 Core + E	1.5	30/0.25	10.7	18	158
46030	2 Core + E	2.5	50/0.25	11.7	25	209
46031	2 Core + E	4	56/0.30	13.2	33	274
46032	2 Core + E	6	84/0.30	14.7	42	349
46034	3 Core + E	1.5	30/0.25	11.5	16	180
46035	3 Core + E	2.5	50/0.25	12.6	21	230
46036	3 Core + E	4	56/0.30	14.2	28	329
46037	3 Core + 3E	6C + 1E	84/0.30	15.9	36	406
46038	3 Core + 3E	10C + 1.5E	140/0.30	17.2	51	562
46039	3 Core + 3E	16C + 2.5E	224/0.30	19.7	67	801
46040	3 Core + 3E	25C + 4E	350/0.30	23.9	89	1182
46041	3 Core + 3E	35C + 6E	494/0.30	26.7	110	1615

Vari-Flex - Variable Speed Drive Cable - XLPE - Braid Screen

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
46044	3 x 1.5	30/0.25	10.6	18	151
46045	3 x 2.5	50/0.25	11.6	25	192
46046	7 x 0.75	24/0.20	11.7	6	186
46047	7 x 1.5	30/0.25	13.3	12	269
46048	12 x 0.75	24/0.20	14.8	5	291
46049	12 x 1.5	30/0.25	16.7	9	404

*Current ratings based on AS/NZS3008.1.1:2009 table 11, column 6 and table 13 column 6 and table 22 row 2
Note: the screen is not designed as an electrical safety earth and should not be used in place of a protective earth.

Control Cable

Multi-Core Flexible Tinned Copper Cable



Application:

For use in control and measurement of equipment. Cable can be installed for instrument to instrument connection, electrical sensing, electrical measuring devices and general transmission of electrical signals

Benefits	
Easy to Install	Flexible cable using class 5 conductors
Easy to Use	White cores with black numbers make the cores easily identified in low light
Extremely Flexible	Flexible insulation and sheath for use in confined & difficult applications
Easy to Solder	Easy to solder tinned copper conductors
Marine Applications	Tinned copper conductors minimise corrosion in marine environments
Suitable for Outdoors	UV resistant black PVC sheath provides extended life outdoors
Features	
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Fine stranded conductors for high flexing
✓	RoHS compliant to European environmental requirements
✓	V90-HT insulation for high ambient temperature at terminations , long term durability and flexibility
✓	Highly flexible 5V90 sheath for easy bending in restricted spaces
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Sheath	5V90 PVC
Colours	White cores with black numbering and green/yellow earth
Ratings	
Temperature	-10°C to + 90°C
Voltage	450/750V
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.3, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned
Copper for Corrosion
Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



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



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



UV Resistant



Flame
Non-Propagation



Metre Marking



Minimum Recommended
Bend Radius Fixed 4 x OD

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Multi-Core, Flexible Tinned Copper Control Cables

Bambach Item Code	Construction x Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Weight kg/km
15030	4 x 0.5	16/0.20	7.5	68
15031	5 x 0.5	16/0.20	8.1	79
15032	7 x 0.5	16/0.20	8.7	100
15033	12 x 0.5	16/0.20	11.4	161
14468	18 x 0.5	16/0.20	13.2	228
15034	25 x 0.5	16/0.20	15.5	305
15035	3 x 0.75	24/0.20	7.4	67
15036	4 x 0.75	24/0.20	8.0	82
14447	5 x 0.75	24/0.20	8.6	98
14451	7 x 0.75	24/0.20	9.4	126
14459	12 x 0.75	24/0.20	12.3	205
14470	18 x 0.75	24/0.20	14.3	289
14485	25 x 0.75	24/0.20	16.8	394
15037	3 x 1	32/0.20	7.8	78
15038	4 x 1	32/0.20	8.5	96
15039	5 x 1	32/0.20	9.3	114
14454	7 x 1	32/0.20	10.0	150
14460	12 x 1	32/0.20	13.1	245
14617	18 x 1	32/0.20	15.4	350
15040	25 x 1	32/0.20	18.1	475
15041	3 x 1.5	30/0.25	8.5	98
14448	4 x 1.5	30/0.25	9.1	125
15042	5 x 1.5	30/0.25	10.1	147
14458	7 x 1.5	30/0.25	10.9	193
14462	12 x 1.5	30/0.25	14.3	315
14464	18 x 1.5	30/0.25	16.8	445
14490	25 x 1.5	30/0.25	19.7	619

Mining Cable

Type 1 Machine Cable



Application:

Typically used for interconnection of control boxes or motors on non-mobile or fixed apparatus. Used when exposure to heat is not an issue and where added mechanical strength is required

Benefits	
Gas Non-Transmission	Cables do not aid propagation of ignition source
Robust Construction	Cores are taped and tightly braided to minimise damage from vibration
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation and sheath for use in confined applications
Excellent Screening	Composite tinned copper and poly-yarn screening provides excellent mechanical strength with high coverage

Features	
✓	Fine conductor stranding for high flexing
✓	RoHS compliant to European environmental requirements
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Tinned copper braid with 90% minimum coverage provides excellent EMI and mechanical protection
✓	Easy to identify white cores with black numbering

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Screening	Oxygen free tinned annealed copper wire interwoven with high tensile poly-yarn
Sheath	5V90 PVC
Colours	White with black numbering

Ratings	
Temperature	-10°C to + 90°C
Voltage	1.1/1.1kV
Max. Conductor DC Resistance at 20°C	13.7Ω/km
Capacitance (Core – Core, 1kHz)	110pF/m
Inductance (Parallel Cores, 1kHz)	0.67μH/m
L/R Ratio	24.5μH/Ω
Applicable Standards	AS/NZS1125, AS/NZS1972, AS/NZS3808, AS/NZS60079.1 - Gas Group I, AS/NZS60079.14, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



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



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



UV Resistant



Flame
Non-Propagation



Metre Marking



Minimum Recommended
Bend Radius Fixed 6 x OD

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Type 1 Machine Cable

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
14475	2 x 1.5	30/0.25	8.6	17	105
14463	4 x 1.5	30/0.25	9.8	14	154
14461	6 x 1.5	30/0.25	12.3	12	255
47894	30 x 1.5	30/0.25	24.5	8	1056

*Current ratings based on AS/NZS3008.1.1:2009 table 10 column 12, table 13 column 12 and table 22 row 2

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Mining Cable

Type 3 Machine Cable



Application:

For use where excess heat is generated at connection points. Cable can be used for control boxes, motors or resistor boxes fitted to mobile haulage machinery (shuttle cars). Cable is also designed to provide mechanical strength

Note: Cable has a maximum continuous operating temperature of 90°C, except for a short distance adjacent to the connecting terminals where the outer covering has been removed. Here the maximum permissible operating temperature is 150°C

Benefits

Gas Non-Transmission	Cables do not aid propagation of ignition source
Excellent Heat Resistance	R-S-150 insulation provides outstanding long term performance in high temperature connections
Robust Construction	Cores are taped and tightly braided to minimise damage from vibration
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation and sheath for use in confined applications
Excellent Screening	Composite tinned copper and poly-yarn screening provides excellent mechanical strength with high coverage

Features

- ✓ Rated up to 150°C at connections
- ✓ Fine conductor stranding for high flexing
- ✓ RoHS compliant to European environmental requirements
- ✓ Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
- ✓ Tinned copper braid with 90% minimum coverage provides excellent EMI and mechanical protection

Construction

Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	R-S-150
Screening	Oxygen free tinned annealed copper wire interwoven with high tensile poly-yarn
Sheath	5V90 PVC
Colours	Red, black, blue, white

Ratings

Temperature	-10°C to + 90°C
Voltage	1.1/1.1kV
Max. Conductor DC Resistance at 20°C	13.7 Ω/km
Capacitance (Core – Core, 1kHz)	70pF/m
Inductance (Parallel Cores, 1kHz)	0.64µH/m
L/R Ratio	23.4µH/Ω
Applicable Standards	AS/NZS1125, AS/NZS1972, AS/NZS3808, AS/NZS60079.1 - Gas Group I, AS/NZS60079.14, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



Maximum Short Circuit
Temperature:
250°C (Max 5s)



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Flame
Non-Propagation



Metre Marking



Minimum Recommended
Bend Radius Fixed 6 x OD

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Type 3 Machine Cable

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
14494	4 x 1.5	30/0.25	10.6	17	118

* Current ratings based on AS/NZS3008.1.1:2009 table 14 column 12



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Mining Cable

Type 9 Machine Cable - Intrinsically Safe



Application:

For signal and control interconnection between enclosures on mining machines. Used in non-intrinsically safe environments.

Benefits	
Gas Non-Transmission	Cables do not aid propagation of ignition source
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation and sheath for use in confined applications
Excellent Screening	Tinned copper screening provides excellent EMI protection
Features	
✓	Cables comply with non-transmission of an internal ignition
✓	Fine conductor stranding for high flexing
✓	RoHS compliant to European environmental requirements
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Tinned copper braid with 80% minimum coverage provides excellent EMI protection
✓	Choice of individual or overall braid screening
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Screening	Oxygen free tinned annealed copper wire (individual or overall, as specified)
Sheath	5V90 PVC
Colours	Coloured cores, with hash marking for > 12 cores
Ratings	
Temperature	-10°C to + 90°C
Voltage	ELV - 50V a.c. 120V ripple free d.c.
Applicable Standards	AS/NZS1125, AS/NZS1972, AS/NZS3808, AS/NZS60079.1 - Gas Group I, AS/NZS60079.14, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



Impact Resistant



Abrasion Resistant



Chemical & Oil
Resistant



Flame
Non-Propagation



Intrinsically Safe



Metre Marking



Minimum Recommended
Bend Radius Fixed 6 x OD

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Type 9 Machine Cable - Individually Screened

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
40670	12 x 0.5	16/0.20	11.0	210
42505	25 x 0.5	16/0.20	13.9	447
19295	4 x 0.75	24/0.20	11.2	171
19290	6 x 0.75	24/0.20	12.6	265
30308	2 x 1	32/0.20	9.2	118

Type 9 Machine Cable - Collectively Screened

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
22550	6 x 0.5	16/0.20	7.3	88
15790	2 x 0.75	24/0.20	8.9	126
19285	3 x 0.75	24/0.20	9.2	171

Electrical Parameters

Bambach Item Code	Max. Conductor DC Resistance at 20°C	Capacitance Core – Core, 1kHz pF/m	Inductance Parallel Cores, 1kHz µH/m	L/R µH/Ω
40670	40.1	141	0.77	9.6
42505	40.1	141	0.77	9.6
19295	26.7	116	0.90	16.8
19290	26.7	116	0.90	16.8
30308	20.0	166	0.79	19.8
22550	40.1	132	0.61	7.6
15790	26.7	93	0.77	14.4
19285	26.7	93	0.77	26.7

Traffic Cable

Trafficab – Multi-Core Traffic Signal Cable



Application:

Underground multi-core power cable for the interconnection of traffic signal posts and/or the associated control equipment.

Benefits	
Type Approved	Type approved in various states and territories
Easy to Use	White cores with black numbers make the cores easily identifiable in low light
Enhanced Performance	Large earth and neutral cores to meet statutory requirements
Easy to Identify	High visibility orange PVC sheath
Longer Life	V90/5V90 insulation and sheath for double the expected lifespan of V75/4V75
Features	
✓	Stranded circular conductors are suitable for fixed installations
✓	RoHS compliant PVC to European environmental requirements
✓	Mylar wrapped to aid stripping of sheath
✓	Flexible cable construction for easy bending in restricted spaces.
Construction	
Conductor	Plain annealed copper wire, class 2
Insulation	V90 PVC
Sheath	5V90 PVC
Colours	White cores with black numbering, grey and black neutral cores and green/yellow earth
Ratings	
Temperature	0°C to + 90°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS2276.1, AS/NZS5000.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Copper



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 160°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 6 x OD

Trafficab – Multi-Core Traffic Signal Cable

Bambach Item Code	Construction	Conductor CSA mm ² *	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km	Applicable state
46009	13C	1.5C + 2.5(R+N+E)	7/0.5 + 7/0.67	17.7	448	
46013	19C	1.5C + 2.5(R+N+E)	7/0.5 + 7/0.67	20.0	588	
46012	19C	1.5C + 2.5R + 4(N + E)	7/0.5 + 7/0.67 + 7/0.85	21.0	640	Vic
17809A	29C	1.5C + 2.5(R+N+E)	7/0.5 + 7/0.67	23.8	827	
17810A	29C	1.5C + 4(R + N + E)	7/0.5 + 7/0.85	27.2	1014	NSW
17812A	29C	1.5C + 4R + 6(N + E)	7/0.5 + 7/0.85 + 7/1.04	28.0	1064	Vic
17813A	36C	1.5C + 2.5R + 4N + 6E	28/0.25 + 46/0.25 + 74/0.25 + 110/0.25	31.8	1413	Qld
17814A	51C	1.5C + 4(R + N + E)	7/0.5 + 7/0.85	32.5	1565	
17811A	51C	1.5C + 4R + 10(N + E)	7/0.5 + 7/0.85 + 7/1.35	36.3	1772	Vic

*C = core, R = Return, N = Nature, E = Earth

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Traffic Cable

Detecta-Cab – XLPE Insulated Loop Detector Traffic Cable



Application:

For use in inductive vehicle-detector loops within traffic signal installations

Benefits	
Type Approved	Type approved in various states and territories
Extra Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
High UV Resistance	High carbon content insulation provides excellent UV protection
Chemical Resistant	Resistant to a range of chemicals
Features	
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	High temperature insulation for high ambient temperature applications
✓	Cross-Linked insulation for additional mechanical and thermal stability
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 2
Insulation	X-90UV
Colour	Black
Ratings	
Temperature	-10°C to + 90°C
Voltage	250/250V
Applicable Standards	AS/NZS1125, AS/NZS2276.3, AS/NZS3808, IEC 60228

Detecta-Cab – XLPE Insulated Loop Detector Traffic Cable

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
46005	1.5	7/0.50	3.9	24



Oxygen Free, Tinned Copper for Corrosion Resistance



Minimum Service Temperature: -10°C



Maximum Service Temperature: 90°C



Impact Resistant



Abrasion Resistant



UV Resistant



Halogen Free



Minimum Recommended Bend Radius Fixed 6 x OD

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Can't find what your looking for?

Speak to our engineers for a custom made cable solution



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Traffic Cable

Detecta-Cab – PP Insulated Loop Detector Traffic Cable



Application:

For use in inductive vehicle-detector loops within traffic signal installations

Benefits	
Type Approved	Type approved in various states and territories
Extra Heavy Duty	Exceptional mechanical strength, impact and abrasion resistance
High UV Resistance	High UV resistant insulation provides excellent UV protection
Chemical Resistant	Resistant to a range of chemicals
Smaller Diameter	Smaller diameter than the XLPE loop detector cable
Features	
✓	Tinned copper strands for corrosion protection
✓	Oxygen free tinned copper for high conductivity soldered connection
✓	Low permittivity material for easy induction
Construction	
Conductor	Tinned annealed copper wire, class 2
Insulation	PP
Colour	Black
Ratings	
Temperature	-10°C to + 80°C
Voltage	250/250V
Applicable Standards	AS/NZS1125, AS/NZS2276.3, AS/NZS3808, IEC 60228

Detecta-Cab – PP Insulated Loop Detector Traffic Cable

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
46006	1.5	7/0.50	3.5	21



Oxygen Free, Tinned Copper for Corrosion Resistance



Minimum Service Temperature: -10°C



Maximum Service Temperature: 80°C



Impact Resistant



Abrasion Resistant



UV Resistant



Halogen Free



Minimum Recommended Bend Radius Fixed 6 x OD

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Looking for flexible cable?

Bambach is a leading supplier of flexible single core's, SDI's and multicore's in a range of materials and size's



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Traffic Cable

Feeda-Cab - Traffic Feeder Cable



Application:

For use in inductive vehicle detector loops with traffic signal applications, connecting the control box to the loop detector cable.

Benefits

Type Approved	Type approved in various states and territories
Water Blocking Gel	Inert gel prevents any ingress of water up the cable
Easy to Use	Water blocking gel is easy to wipe away and does not stick to hands
Excellent Electrical Integrity	Blocking agent minimises any change in electrical characteristics
Suitable for Outdoors	UV resistant sheath allows for installation outside

Features

- ✓ Multi-pair cable version allows for easier installation
- ✓ Robust materials provides additional mechanical, impact and abrasion resistance
- ✓ Water blocking gel is very easy to use and wipes away to nothing

Construction

Conductor	Oxygen free plain annealed copper wire, class 2	
Insulation	PE	
Pair Colours	1 Pair: black/black	2 Pair: black/black, red/red
	3 Pair: black/black, red/red, white/white	4 Pair: black/black, red/red, white/white, blue/blue
Water Block	Gel Filled	
Bedding	PE	
Screen	Aluminium/Polyester tape with 7/0.25mm TC drain wire	
Sheath	5V90 PVC	

Ratings

Temperature	-10°C to + 70°C
Voltage	ELV
Characteristic Impedance (25kHz – 100kHz)	80-100Ω
Mutual Capacitance (1kHz)	65-80pF/m
Unbalanced Capacitance (1kHz)	<2%
Applicable Standards	AS/NZS1125, AS/NZS2276.2, AS/NZS3808, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Oxygen Free Copper



Minimum Service Temperature: -10°C



Maximum Service Temperature: 70°C



Impact Resistant



Metre Marking



Abrasion Resistant



Flame Non-Propagation



UV Resistant



Minimum Recommended Bend Radius Fixed 6 x OD

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Feeda-Cab – Traffic Feeder Cable

Bambach Item Code	No. of Pairs x Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
46000	1 x 1.5	7/0.50	7.8	72
46014	2 x 1.5	7/0.50	9.6	114
46015	3 x 1.5	7/0.50	11.9	174
46016	4 x 1.5	7/0.50	12.9	219



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Medium Voltage Power

6.35/11kV Heavy Duty Single Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available
Features	
✓ Cross-linked insulation form a stronger structure and do not melt or flow when heated	
✓ High electrical resistant XLPE insulation provides excellent electrical performance	
✓ Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution	
✓ Copper wire and tape insulation screen provided to give high short circuit ratings	
Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	5V90 PVC
Insulation colour	Natural
Sheath colour	Black
Ratings	
Temperature	0°C to + 90°C
Voltage	6.35/11 (12) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 18 x OD

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6.35/11kV Heavy Duty Single Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	3.4	15.2	35	1.8	23.3	1.0	0.524	0.668	5.0	5.2
50	8.2	3.4	16.4	50	1.8	25.3	1.3	0.387	0.494	7.2	7.4
70	10.0	3.4	18.2	70	1.8	27.6	1.7	0.268	0.342	10.0	10.4
95	11.6	3.4	19.8	91	1.8	30.0	2.2	0.193	0.247	13.6	13.5
120	13.0	3.4	21.2	91	1.8	31.4	2.4	0.153	0.196	17.2	13.5
150	14.6	3.4	22.8	91	1.9	33.2	2.8	0.124	0.159	21.5	13.5
185	16.2	3.4	24.4	91	1.9	34.8	3.1	0.0991	0.128	26.5	13.5
240	18.4	3.4	26.6	91	2.0	37.2	3.7	0.0754	0.0984	34.3	13.5
300	20.6	3.4	28.8	91	2.1	36.9	4.3	0.0601	0.0796	42.9	13.5
400	23.4	3.4	31.6	91	2.2	42.6	5.2	0.0470	0.0631	57.2	13.5
500	26.6	3.4	34.8	91	2.3	46.0	6.2	0.0366	0.0508	71.5	13.5

6.35/11kV Heavy Duty Single Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	3.4	15.2	23	1.8	22.9	0.7	0.868	1.11	3.3	3.4
50	8.2	3.4	16.4	32	1.8	24.7	0.8	0.641	0.822	4.7	4.7
70	10.0	3.4	18.2	46	1.8	27.1	1.1	0.443	0.568	6.6	6.8
95	11.6	3.4	19.8	63	1.8	28.8	1.3	0.320	0.411	9.0	9.3
120	13.0	3.4	21.2	79	1.8	31.2	1.6	0.253	0.325	11.3	11.7
150	14.6	3.4	22.8	91	1.9	33.2	1.9	0.206	0.265	14.2	13.5
185	16.2	3.4	24.4	91	1.9	34.8	2.0	0.164	0.211	17.5	13.5
240	18.4	3.4	26.6	91	2.0	37.2	2.2	0.125	0.161	22.7	13.5
300	20.6	3.4	28.8	91	2.1	36.9	2.4	0.100	0.130	28.3	13.5
400	23.4	3.4	31.6	91	2.2	42.6	2.8	0.0778	0.102	37.8	13.5
500	26.6	3.4	34.8	91	2.3	46.0	3.2	0.0605	0.0802	47.2	13.5

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Medium Voltage Power

6.35/11kV Heavy Duty Three Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available
Features	
✓	Cross-linked insulation form a stronger structure and do not melt or flow when heated
✓	High electrical resistant XLPE insulation provides excellent electrical performance
✓	Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution
✓	Copper wire and tape insulation screen provided to give high short circuit ratings
Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	HDPE
Insulation colour	Natural
Sheath colour	Black
Ratings	
Temperature	0°C to + 90°C
Voltage	6.35/11 (12) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 25 x OD

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6.35/11kV Heavy Duty Three Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	3.4	15.2	12	2.4	45.7	2.5	0.524	0.668	5.0	5.3
50	8.2	3.4	16.4	16	2.5	48.5	3.1	0.387	0.494	7.2	7.1
70	10.0	3.4	18.2	23	2.6	52.6	4.0	0.268	0.342	10.0	10.2
95	11.6	3.4	19.8	31	2.7	57.1	5.1	0.193	0.247	13.6	13.8
120	13.0	3.4	21.2	31	2.8	60.3	5.9	0.153	0.196	17.2	13.8
150	14.6	3.4	22.8	31	2.9	64.0	6.9	0.124	0.159	21.5	13.8
185	16.2	3.4	24.4	31	3.0	67.6	8.0	0.0991	0.128	26.5	13.8
240	18.4	3.4	26.6	31	3.2	72.8	9.8	0.0754	0.0981	34.3	13.8
300	20.6	3.4	28.8	31	3.3	77.7	11.7	0.0601	0.0792	42.9	13.8

6.35/11kV Heavy Duty Three Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	3.4	15.2	9	2.4	45.7	1.8	0.868	1.11	3.3	4.0
50	8.2	3.4	16.4	11	2.5	48.5	2.1	0.641	0.822	4.7	4.9
70	10.0	3.4	18.2	15	2.6	52.6	2.5	0.443	0.568	6.6	6.7
95	11.6	3.4	19.8	21	2.7	57.1	3.0	0.320	0.411	9.0	9.3
120	13.0	3.4	21.2	23	2.8	60.3	3.5	0.253	0.325	11.3	10.2
150	14.6	3.4	22.8	26	2.9	64.0	4.1	0.206	0.265	14.2	11.5
185	16.2	3.4	24.4	31	3.0	67.6	4.7	0.164	0.211	17.5	13.8
240	18.4	3.4	26.6	31	3.2	72.8	5.4	0.125	0.161	22.7	13.8
300	20.6	3.4	28.8	31	3.3	77.7	6.2	0.100	0.130	28.3	13.8

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WESTERN AUSTRALIA
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Medium Voltage Power

12.7/22kV Heavy Duty Single Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available

Features	
✓	Cross-linked insulation form a stronger structure and do not melt or flow when heated
✓	High electrical resistant XLPE insulation provides excellent electrical performance
✓	Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution
✓	Copper wire and tape insulation screen provided to give high short circuit ratings

Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	5V90 PVC
Insulation colour	Natural
Sheath colour	Black

Ratings	
Temperature	0°C to + 90°C
Voltage	12.7/22 (24) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 18 x OD

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12.7/22kV Heavy Duty Single Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	5.5	19.4	35	1.8	27.5	1.2	0.524	0.668	5.0	5.2
50	8.2	5.5	20.6	50	1.8	29.5	1.5	0.387	0.494	7.2	7.4
70	10.0	5.5	22.4	70	1.9	32.0	1.9	0.268	0.342	10.0	10.4
95	11.6	5.5	24.0	91	1.9	34.4	2.4	0.193	0.247	13.6	13.5
120	13.0	5.5	25.4	91	2.0	36.0	2.7	0.153	0.196	17.2	13.5
150	14.6	5.5	27.0	91	2.0	37.6	3.0	0.124	0.159	21.5	13.5
185	16.2	5.5	28.6	91	2.1	39.4	3.4	0.0991	0.128	26.5	13.5
240	18.4	5.5	30.8	91	2.2	41.8	3.9	0.0754	0.0977	34.3	13.5
300	20.6	5.5	33.0	91	2.2	44.0	4.5	0.0601	0.0788	42.9	13.5
400	23.4	5.5	35.8	91	2.4	47.2	5.5	0.0470	0.0627	57.2	13.5
500	26.6	5.5	39.0	91	2.4	50.4	6.5	0.0366	0.0503	71.5	13.5
630	29.9	5.5	42.3	91	2.6	54.1	7.9	0.0283	0.0408	90.1	13.5

12.7/22kV Heavy Duty Single Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	5.5	19.4	23	1.8	27.1	0.8	0.868	1.11	3.3	3.4
50	8.2	5.5	20.6	32	1.8	28.9	1.0	0.641	0.822	4.7	4.7
70	10.0	5.5	22.4	46	1.9	31.5	1.3	0.443	0.568	6.6	6.8
95	11.6	5.5	24.0	63	1.9	33.2	1.5	0.320	0.411	9.0	9.3
120	13.0	5.5	25.4	79	2.0	35.8	1.8	0.253	0.325	11.3	11.7
150	14.6	5.5	27.0	91	2.0	37.6	2.1	0.206	0.265	14.2	13.5
185	16.2	5.5	28.6	91	2.1	39.4	2.2	0.164	0.211	17.5	13.5
240	18.4	5.5	30.8	91	2.2	41.8	2.5	0.125	0.161	22.7	13.5
300	20.6	5.5	33.0	91	2.2	44.0	2.7	0.100	0.130	28.3	13.5
400	23.4	5.5	35.8	91	2.4	47.2	3.1	0.0778	0.101	37.8	13.5
500	26.6	5.5	39.0	91	2.4	50.4	3.5	0.0605	0.0799	47.2	13.5

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Medium Voltage Power

12.7/22kV Heavy Duty Three Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available

Features	
✓	Cross-linked insulation form a stronger structure and do not melt or flow when heated
✓	High electrical resistant XLPE insulation provides excellent electrical performance
✓	Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution
✓	Copper wire and tape insulation screen provided to give high short circuit ratings

Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	HDPE
Insulation colour	Natural
Sheath colour	Black

Ratings	
Temperature	0°C to + 90°C
Voltage	12.7/22 (24) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 25 x OD

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12.7/22kV Heavy Duty Three Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
35	7.0	5.5	19.4	12	2.7	55.4	3.1	0.524	0.668	5.0	5.3
50	8.2	5.5	20.6	16	2.8	58.2	3.8	0.387	0.494	7.2	7.1
70	10.0	5.5	22.4	23	2.9	62.2	4.7	0.268	0.342	10.0	10.2
95	11.6	5.5	24.0	31	3.0	66.8	5.9	0.193	0.247	13.6	13.8
120	13.0	5.5	25.4	31	3.1	70.0	6.7	0.153	0.196	17.2	13.8
150	14.6	5.5	27.0	31	3.2	73.6	7.8	0.124	0.159	21.5	13.8
185	16.2	5.5	28.6	31	3.3	77.3	8.9	0.0991	0.128	26.5	13.8
240	18.4	5.5	30.8	31	3.5	82.5	10.8	0.0754	0.0981	34.3	13.8
300	20.6	5.5	33.0	31	3.7	87.6	12.8	0.0601	0.0792	42.9	13.8

12.7/22kV Heavy Duty Three Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
50	8.2	5.5	20.6	11	2.8	58.2	2.7	0.641	0.822	4.7	4.9
70	10.0	5.5	22.4	15	2.9	62.2	3.3	0.443	0.568	6.6	6.7
95	11.6	5.5	24.0	21	3.0	66.8	3.9	0.320	0.411	9.0	9.3
120	13.0	5.5	25.4	23	3.1	70.0	4.3	0.253	0.325	11.3	10.2
150	14.6	5.5	27.0	26	3.2	73.6	4.9	0.206	0.265	14.2	11.5
185	16.2	5.5	28.6	31	3.3	77.3	5.6	0.164	0.211	17.5	13.8
240	18.4	5.5	30.8	31	3.5	82.5	6.4	0.125	0.161	22.7	13.8
300	20.6	5.5	33.0	31	3.7	87.6	7.3	0.100	0.130	28.3	13.8

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Medium Voltage Power

19/33kV Heavy Duty Single Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available

Features	
✓	Cross-linked insulation form a stronger structure and do not melt or flow when heated
✓	High electrical resistant XLPE insulation provides excellent electrical performance
✓	Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution
✓	Copper wire and tape insulation screen provided to give high short circuit ratings

Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	5V90 PVC
Insulation colour	Natural
Sheath colour	Black

Ratings	
Temperature	0°C to + 90°C
Voltage	19/33 (36) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 18 x OD

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19/33kV Heavy Duty Single Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
50	8.2	8.0	25.8	50	2.0	35.1	1.7	0.387	0.494	7.2	7.4
70	10.0	8.0	27.6	70	2.1	37.6	2.2	0.268	0.342	10.0	10.4
95	11.6	8.0	29.2	91	2.1	40.0	2.7	0.193	0.247	13.6	13.5
120	13.0	8.0	30.6	91	2.2	41.6	3.0	0.153	0.196	17.2	13.5
150	14.6	8.0	32.2	91	2.2	43.2	3.3	0.124	0.159	21.5	13.5
185	16.2	8.0	33.8	91	2.3	45.0	3.7	0.0991	0.127	26.5	13.5
240	18.4	8.0	36.0	91	2.3	47.2	4.3	0.0754	0.0976	34.3	13.5
300	20.6	8.0	38.2	91	2.4	49.6	4.9	0.0601	0.0785	42.9	13.5
400	23.4	8.0	41.0	91	2.5	52.6	5.9	0.0470	0.0624	57.2	13.5
500	26.6	8.0	44.2	91	2.6	56.0	6.9	0.0366	0.0499	71.5	13.5

19/33kV Heavy Duty Single Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
50	8.2	8.0	25.8	32	2.0	34.5	1.3	0.641	0.822	4.7	4.7
70	10.0	8.0	27.6	46	2.1	37.1	1.6	0.443	0.568	6.6	6.8
95	11.6	8.0	29.2	63	2.1	38.8	1.8	0.320	0.411	9.0	9.3
120	13.0	8.0	30.6	79	2.2	41.4	2.2	0.253	0.325	11.3	11.7
150	14.6	8.0	32.2	91	2.2	43.2	2.4	0.206	0.265	14.2	13.5
185	16.2	8.0	33.8	91	2.3	45.0	2.6	0.164	0.211	17.5	13.5
240	18.4	8.0	36.0	91	2.3	47.2	2.8	0.125	0.161	22.7	13.5
300	20.6	8.0	38.2	91	2.4	49.6	3.1	0.100	0.129	28.3	13.5
400	23.4	8.0	41.0	91	2.5	52.6	3.5	0.0778	0.101	37.8	13.5
500	26.6	8.0	44.2	91	2.6	56.0	3.9	0.0605	0.0797	47.2	13.5

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Medium Voltage Power

19/33kV Heavy Duty Three Core



Application:

Power supply in industrial and mining networks. Transformers, industrial plants, distribution and transmission lines. For use underground in conduits or enclosures where additional mechanical protection is not required.

Benefits	
Cross-Linked	Insulation is fully cross-linked to ensure safe performance
Large conductor screen	Copper wire and copper tape screens provide high fault ratings according to the adiabatic method of IEC 60986
Circular compacted conductors	Circular compacted conductors are used to reduce cable size
Conductor material	High conductive copper and aluminium conductors available
Features	
✓	Cross-linked insulation form a stronger structure and do not melt or flow when heated
✓	High electrical resistant XLPE insulation provides excellent electrical performance
✓	Extruded, fully cross-linked conductor and insulation screen provide even electric field distribution
✓	Copper wire and tape insulation screen provided to give high short circuit ratings
Construction	
Conductor	Circular compacted plain annealed copper or circular compacted aluminium, class 2
Conductor screen	Cross-linked, semi conductive compound
Insulation	XLPE
Insulation screen	Cross-linked, semi conductive compound
Metallic Screen	Plain annealed copper wire covered by plain annealed copper tape
Binder Tape	Binder tape
Sheath	HDPE
Insulation colour	Natural
Sheath colour	Black
Ratings	
Temperature	0°C to + 90°C
Voltage	19/33 (36) kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1429.1, AS/NZS1660.5.6, IEC 60228, IEC 60332-1, IEC 60986



Compacted Conductor: Class 2



Copper



Aluminium



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 250°C



Cross-Linked Insulation



UV Resistant



Flame Non-Propagation



Metre Marking



Minimum Recommended Bend Radius Fixed 25 x OD

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19/33kV Heavy Duty Three Core – Copper Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
50	8.2	8.0	25.8	16	3.2	70.2	4.8	0.387	0.494	7.2	7.1
70	10.0	8.0	27.6	23	3.3	74.3	5.8	0.268	0.342	10.0	10.2
95	11.6	8.0	29.2	31	3.4	78.8	7.0	0.193	0.247	13.6	13.8
120	13.0	8.0	30.6	31	3.5	82.0	7.9	0.153	0.196	17.2	13.8
150	14.6	8.0	32.2	31	3.6	85.7	9.0	0.124	0.159	21.5	13.8
185	16.2	8.0	33.8	31	3.7	89.3	10.2	0.0991	0.128	26.5	13.8
240	18.4	8.0	36.0	31	3.9	94.5	12.2	0.0754	0.0978	34.3	13.8
300	20.6	8.0	38.2	31	4.1	99.6	14.2	0.0601	0.0788	42.9	13.8

19/33kV Heavy Duty Three Core –Aluminium Conductor

Conductor		Cable						Conductor Resistance (max.)		Fault Rating	
Nom. CSA mm ²	Nom. diameter	Insulation		Screen	Sheath	Overall Diameter		DC at 20°C Ω/km	AC at 90°C Ω/km	Phase conductor (1 sec.) kA	Copper wire screen (1sec.) kA
		Nom. thickness mm	Nom. Ø mm	Nom. CSA mm ²	Nom. thickness mm	Approx. overall Ø mm	Approx. weight kg/m				
50	8.2	8.0	20.6	11	3.2	70.2	3.7	0.641	0.822	4.7	4.9
70	10.0	8.0	22.4	15	3.3	74.3	4.3	0.443	0.568	6.6	6.7
95	11.6	8.0	24.0	21	3.4	78.8	5.0	0.320	0.411	9.0	9.3
120	13.0	8.0	25.4	23	3.5	82.0	5.5	0.253	0.325	11.3	10.2
150	14.6	8.0	27.0	26	3.6	85.7	6.2	0.206	0.265	14.2	11.5
185	16.2	8.0	28.6	31	3.7	89.3	6.9	0.164	0.211	17.5	13.8
240	18.4	8.0	30.8	31	3.9	94.5	7.8	0.125	0.161	22.7	13.8
300	20.6	8.0	33.0	31	4.1	99.6	8.7	0.100	0.130	28.3	13.8

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Braids & Terminated Braids

Tinned Copper, Plain Copper and Stainless Steel Braids



Application:

Use in earthing, EMI shielding and marine installations. Copper braids can also be used as battery straps for termination or installed over cables for additional protection. Stainless steel can be used as flexible strength members

Benefits

Flexible Stranding	Superfine conductor stranding gives increased flexibility
Duplex Braid	Duplex braids offer larger conductor areas without the increased width, while maintaining flexibility
Robust Build	Battery straps and duplex braids are more durable than regular braids
Custom Terminated Braids	Made to suit specific customer dimensions

Features

✓ Terminated braids can be fitted with tinned annealed copper lugs for maximum conductivity
✓ Braids are manufactured with a shorter lay length to increase torsion resistance and improve flexibility
✓ Tinned copper and 316 grade stainless steel limits the affects of oxidisation and corrosion
✓ Stainless steel braids for excellent mechanical strength
✓ Lugs are pressed to increase mechanical strength of termination
✓ Oxygen free tinned copper for high conductivity soldered connections

Construction

Conductor	Oxygen free tinned or plain annealed copper or grade 316 stainless steel
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Ratings

Applicable Standards	AS/NZS1125, IEC 60228
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Tinned Copper Braid

Bambach Item Code	Conductor CSA mm ²	Stranding No. of Strands/mm	Approx. Width mm	Current Rating* Amps	Weight kg/km
17440	1.12	24/4/0.12	3.2	22	10
19160	1.68	24/6/0.12	4.8	30	15
20640	2.24	24/8/0.12	6.4	37	22
22000	3.92	24/14/0.12	7.0	45	39
23200	5.98	32/16/0.12	12.7	66	57
29720	11.96	2 x 32/16/0.12	12.7	90	114
25300	8.97	48/16/0.12	19.0	85	95
30360	17.94	2 x 48/16/0.12	19.0	118	167
26300	17.94	48/32/0.12	25.0	118	167
30920	35.88	2 x 48/32/0.12	26.0	190	334

Tinned Copper Battery Straps

Bambach Item Code	Conductor CSA mm ²	Stranding No. of Strands/mm	Approx. Width mm	Current Rating* Amps	Weight kg/km
28120	23.56	48/10/0.25	25	150	217
31480	47.12	2 x 48/10/0.25	28	240	461
29000	37.70	48/16/0.25	28	210	359
31485	75.40	2 x 48/16/0.25	33	310	718
35500	105.54	19/7/14/0.25 Rope O/A 36/8/0.25 Braid	16 Diameter Circular	390	1010

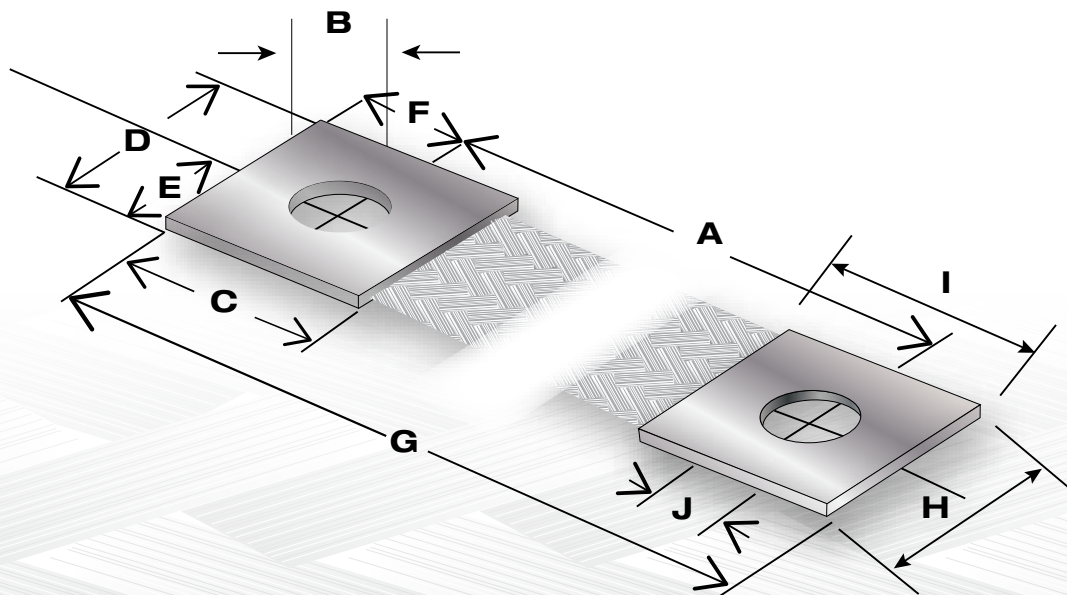
*Calculated at 40°C temperature rise above 30°C ambient, over standard length 1m

316 Stainless Steel Braid - Circular

Bambach Item Code	Conductor CSA mm ²	Stranding No. of Strands/mm	Approx Diam mm	Weight kg/km
12201	2.26	24/3/0.20	3.7	22
12200	3.01	24/4/0.20	3.9	29

Terminated Braids

Terminated braids are custom designed to meet specific requirements.



High Temperature

Silicone Rubber Cables 150°C - 200°C



Application:

Industrial heating and cooling, areas where extreme high and low temperatures are apparent

Benefits		
Wide Temperature Range	Silicone rubber insulation is suitable in extreme high and low temperatures	
Flexible Stranding	Class 5 flexible conductor stranding	
Acid and Oil Resistance	Good resistance to oils, gasoline and some acids	
Marine Applications	Tinned copper conductor minimises corrosion in marine environments	
Halogen Free	Silicone rubber insulation does not release corrosive gases when ignited	
Features		
✓ R-S-200 insulation has a very wide operating range between -50°C and + 200°C		
✓ Oxygen free tinned copper for high conductivity soldered connections and corrosion protection		
✓ Silicone rubber exhibits excellent electrical resistance		
✓ Good flame retardance with zero halogens		
Construction		
Conductor	Oxygen free tinned annealed copper wire, class 5	
Insulation	R-S-200 (0.5mm ² - 6mm ² single core, R-S-150 other sizes)	
Colours	Blue, black, brown, green, grey, orange, purple, pink, red, white, yellow, 3 Core – Blue, brown and green, black outer sheath	
Ratings		
Temperature	R-S-200 -50°C to + 200°C	R-S-150 -10°C to +150°C
Voltage	0.6/1kV	
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS5000.1, IEC 60228	



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-50°C



Maximum Service
Temperature:
200°C Single Core up to
6mm² other sizes 150°C



Maximum Short Circuit
Temperature:
350°C (Max 5s)



Grease & Minerals Oils
Resistant



Chemical & Oil Resistant



UV Resistant



Low Temperature Resistant



Halogen Free



Minimum Recommended
Bend Radius Fixed 6 x OD

Silicone Rubber Single Core - 200°C

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
10685A	0.5	16/0.20	2.7	19	12
13005	0.75	24/0.20	2.9	24	15
15105	1	32/0.20	3.3	28	19
17025	1.5	30/0.25	3.6	37	24
18765	2.5	50/0.25	4.0	50	35
20285	4	56/0.30	4.7	67	51
21640	6	84/0.30	6.1	87	72

Silicone Rubber Single Core - 150°C

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
22880A	10	140/0.30	8.2	120	115
23960A	16	224/0.30	9.4	165	176
24980A	25	350/0.30	11.0	215	264

Silicone Rubber Multi Core - 150°C

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating [†] Amps	Weight kg/km
25720	2 x 0.75	24/0.20	7.0	24	70
25760	3 x 0.75	24/0.20	8.0	20	80
25980	3 x 1	32/0.20	9.0	24	110
26980	3 x 1.5	30/0.25	10.0	31	140
27015	3 x 2.5	50/0.25	12.0	43	180

*Current ratings based on AS/NZS3008.1.1:2009 table 17 column 2

†Current ratings based on AS/NZS3008.1.1:2009 table 17 column 4

High Temperature

Glass Braided Silicone Cables 150°C - 200°C



Application:

For use in heating equipment and areas with high ambient temperature. Also for applications that require additional abrasion resistance and mechanical strength

Benefits		
High Temperature Rating	Silicone rubber insulation is suitable for use in high temperatures	
Flexible Stranding	Class 5 flexible conductor stranding	
Abrasion Resistant	Varnish impregnated glass braid provides excellent abrasion resistance	
Easy to Solder	Tinned copper conductors for easy adhesion	
Mechanical Strength	Glass braid coupled with silicone insulation gives good tensile strength	
Features		
✓	R-S-200 insulation is suitable for operation in temperatures up to 200°C (R-S-150 for temperatures to 150°C)	
✓	Silicone rubber exhibits excellent electrical resistance	
✓	Double glass braid gives 100% coverage of silicone insulation	
✓	Varnish impregnated glass braid provides excellent wear resistance, particularly at high temperatures	
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection	
Construction		
Conductor	Oxygen free tinned annealed copper wire, class 5	
Insulation	R-S-200 or R-S-150	
Braid	Glass fibre braid impregnated with silicone varnish	
Colours	Blue, black, brown, green, red, white	
Ratings		
Temperature	0°C to + 200°C – Single Cores up to 6mm ²	0°C to +150°C - Other sizes
Voltage	250/250V	
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, IEC 60228	



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
0°C



Maximum Service
Temperature:
200°C up to 6mm²,
150°C other sizes



Maximum Short Circuit
Temperature:
350°C (Max 5s)



Impact Resistant



Abrasion Resistant



Minimum Recommended
Bend Radius Fixed 6 x OD

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Silicone Rubber/Glass Braided Single Core 200°C

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
10046	0.5	16/0.20	3.3	19	14
10050	0.75	24/0.20	3.4	24	17
11190	1	32/0.20	3.8	28	21
11310	1.5	30/0.25	3.9	37	25
11490	2.5	50/0.25	4.5	50	39
12125	4	56/0.30	5.3	67	54
12250	6	84/0.30	6.7	87	76

Silicone Rubber/Glass Braided Single Core 150°C

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
13455	10	140/0.30	9.7	120	120
13620	16	224/0.30	10.4	165	181
13650	25	350/0.30	12.0	215	269

*Current ratings based on AS/NZS3008.1.1:2009 table 17 column 2

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High Temperature

Glass Insulated, Tinned Copper Single Core Cables 150°C



Application:

Suitable for high ambient temperature environments up to 150°C

Benefits	
High Temperature Rating	Glass insulated tinned copper conductors are suitable for use in high temperature areas
Flexible Stranding	Class 5 flexible conductor stranding
Easy to Solder	Tinned copper conductors for easy solder adhesion
Abrasion Resistant	Silicone varnish impregnated, double glass braided insulation provides excellent abrasion resistance
Wide Choice Available	A variety of colours available ex-stock
Features	
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Class 5 stranding provides increased flexibility
✓	Double glass braid for high insulation resistance
✓	Silicone varnish and double glass braid for 100% coverage
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	Double glass fibre braid impregnated with silicone varnish
Colours	Blue, black, green, natural, red and white
Ratings	
Temperature	0°C to +150°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3158, IEC 60228



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
0°C



Maximum Service
Temperature:
150°C



Maximum Short Circuit
Temperature:
350°C (Max 5s)



Impact Resistant



Abrasion Resistant



Flame
Non-Propagation



Minimum Recommended
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Tinned Copper/Glass Braided

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
16100	0.75	24/0.20	3.2	24	14
17780	1	32/0.20	3.5	28	23
19520	1.5	30/0.25	3.7	37	27
21000	2.5	50/0.25	4.0	50	39
22280	4	56/0.30	4.9	67	55

*Current ratings based on AS/NZS3008.1.1:2009 table 17 column 2.



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High Temperature

Glass Insulated, Nickel Conductor Single Core Cables 350°C



Application:

Suitable for high ambient temperature environments up to 350°C

Benefits	
High Temperature Rating	Glass insulated pure nickel conductors are suitable for use in very high temperature environments
Pure Nickel Conductors	Nickel conductors offer high strength and corrosion resistance at elevated temperatures where copper and tinned copper degrade
Flexible Stranding	Class 5 flexible conductor stranding
Abrasion Resistant	Silicone varnish impregnated, glass braided insulation provides excellent abrasion resistance
Reduced Diameter	Double fine and super fine options are available to fit specific inserts
Wide Choice Available	A variety of colours available ex-stock
Features	
✓	Pure nickel conductors are suitable for operation up to 350°C
✓	Class 5 stranding allows increased flexibility
✓	Double glass braid for high insulation resistance
✓	Silicone varnish and double glass braid for 100% coverage
Construction	
Conductor	Pure nickel wire, class 5 stranding
Insulation	Double glass fibre braid impregnated with silicone varnish
Colours	Blue, black, green, natural, red and white
Ratings	
Temperature	0°C to + 350°C
Voltage	0.6/1kV*
Applicable Standards	AS/NZS3158†



Flexible Conductor:
Class 5



Pure Nickel



Minimum Service
Temperature:
0°C



Maximum Service
Temperature:
350°C



Impact Resistant



Abrasion Resistant



Flame Non-Propagation



Minimum Recommended
Bend Radius Fixed 6 x OD

Pure Nickel/Glass braided 350°C[†]

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
32760	0.5	16/0.20	2.9	9
33160	0.75	24/0.20	3.2	14
33520	1	32/0.20	3.5	23
33840	1.5	30/0.25	3.7	26
34160	2.5	50/0.25	4.0	38
34440	4	56/0.30	4.9	52

Pure Nickel/Glass braided 350°C Super Fine*

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
34970	0.5	16/0.20	1.95	9
34945	0.75	24/0.20	2.0	11
34950	1	32/0.20	2.2	16
34960	1.5	30/0.25	2.4	18

Pure Nickel/Glass braided 350°C Double Fine*

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. of Strands/mm	Nom Ø mm	Weight kg/km
35000	0.5	16/0.20	2.1	10
35280	0.75	24/0.20	2.4	11
35560	1	32/0.20	2.6	16
35840	1.5	30/0.25	2.8	18

*Super fine and double fine nickel cables have reduced insulation thicknesses to fit specific inserts. 0.6/1kV voltage rating does not apply

†Pure nickel conductors are generally to AS/NZS 3158 as the standard covers up to class 27(27% nickel)

PV1-F 125°C Flexible Solar Cable

Sol-Ra – Single Core, Double Insulated (SDI) and Figure 8 Flexible Cable



Application:

For the interconnection of PV arrays or modules. Mainly used for LV DC systems in harsh outdoor environments.

Benefits	
TUV Approved	TUV PV1-F approved
Cross-Linked	E-beam cross-linked insulation and sheath to enhance performance
Low Smoke	Reduced smoke emission in a fire situation
Low Toxicity	Reduced toxicity in a fire situation
Non-Corrosive	No corrosive gas emitted in a fire situation
Higher Temperature Rating	125°C temperature rating allows for higher current carrying capacity
Flame Retardant	Flame retardant, low fire load and non-flame propagating
Extremely Flexible	Class 5 flexible conductor stranding

Features	
✓	Tinned copper strands for corrosion protection
✓	Cross-linked insulation and sheath form a stronger structure and do not melt or flow when heated
✓	Compatible with all popular connectors
✓	UV, ozone and hydrolysis resistant
✓	RoHS compliant to European environmental requirements
✓	Long service life – 25 years at 90°C

Construction	
Conductor	Tinned annealed copper wire, class 5 or 6
Insulation	Polyolefin copolymer electron-beam cross-linked
Sheath	Polyolefin copolymer electron-beam cross-linked
Colours	SDI's – red or black, black sheath Fig 8 – red and black, black sheath

Ratings	
Temperature	-40°C to + 125°C
Voltage	0.6/1kV AC, 1/1.8kV DC
Applicable Standards	TUV PV1-F No. 2PfG 1169/08.2007, IEC 60332-1, IEC 61034, EN 50268-2, DIN 51900, UNE 211 23, UNE 20 460-5-52, UTE C 32-502 VDE 0295/IEC 60228

 Flexible Conductor: Class 5	 Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -40°C	 Maximum Service Temperature: 125°C	 Maximum Short Circuit Temperature: 280°C
 Cross-Linked Insulation and Sheath	 Impact Resistant	 Abrasion Resistant	 Chemical & Oil Resistant	 UV Resistant
 Flame Non-Propagation	 Low Temperature Resistance: Excellent	 Low Smoke Zero Halogen	 Metre Marking	 Minimum Recommended Bend Radius Fixed 4 x OD

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Sol-Ra – Single Core, Double Insulated (SDI) Flexible Cables

Bambach Item Code	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
48396A	4	56/0.30	6.1	55	70
48397A	6	84/0.30	7.2	70	95
48509A	10	142/0.30	9.0	98	140
48510A	16	228/0.30	10.2	132	210

*Current ratings calculated, based on unenclosed, in air

Sol-Ra – Figure 8 Flexible Cables

Bambach Item Code	Conductor CSA mm ²	Nom. Conductor Stranding No. of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
48398A	4	56/0.30	6.1 x 13.7	55	142
48399A	6	84/0.30	7.1 x 15.5	70	200
48511A	10	142/0.30	8.5 x 18.7	98	290
48512A	16	228/0.30	10.0 x 21.6	132	430

*Current ratings calculated, based on unenclosed, in air



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Data & Instrument

Screened Signal Cable



Application:

For connection of low voltage signal, audio and instrument equipment. Used where EMI screening is required

Benefits	
EMI Shielding	Tinned copper braid reduces the affect of electrical interference throughout the frequency spectrum
Extremely Flexible	Flexible conductor and braid stranding allow for high flexibility
Easy to Install	Flexible cable using class 5 conductors
Easy to Solder	Tinned copper conductors for easy adhesion
Marine Applications	Tinned copper conductors minimise corrosion in marine environments
Features	
✓	Copper braid with minimum coverage of 80% gives excellent EMI shielding
✓	V90-HT insulation for high temperature applications
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Fine stranded conductors for high flexibility
✓	Highly flexible 5V90 PVC sheath for easy bending
✓	UV resistant black sheath provides extended outdoor life
✓	RoHS compliant to comply with European environmental requirements
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	V90-HT PVC
Screening	Oxygen free tinned annealed copper wire, minimum coverage 80%
Sheath	5V90 PVC
Colours	1 Core – Red 2 Core – Red & white, 3 Core – Red, blue & green 4 Core – Red, black, yellow & blue 6 Core – Black, blue, green, red, white & yellow
Ratings	
Temperature	-10°C to + 90°C
Voltage	ELV - 50V a.c. 120V ripple free d.c.
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free, Tinned Copper
for Corrosion Resistance



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



Impact Resistant



Abrasion Resistant



Chemical & Oil
Resistant



UV Resistant



Flame
Non-Propagation



Metre Marking



Minimum Recommended
Bend Radius Fixed 6 x OD

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Data and Instrument - Collectively Screened

Bambach Item Code	No. of Cores x Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Weight kg/km
11320	1 x 0.5	16/0.20	4.0	24
15700	2 x 0.5	16/0.20	5.6	44
19280	3 x 0.5	16/0.20	5.6	60
22120	4 x 0.5	16/0.20	5.8	69
22550	6 x 0.5	16/0.20	7.3	81
11675	1 x 0.75	24/0.20	5.2	46
11955	1 x 1	32/0.20	5.4	50

Electrical Parameters

Bambach Item Code	Max. Conductor DC Resistance at 20°C	Capacitance Core – Core, 1kHz pF/m	Capacitance Core – Screen, 1kHz pF/m	Inductance Parallel Cores, 1kHz µH/m	L/R µH/Ω
11320	40.1	-	445	-	-
15700	40.1	183	-	0.63	7.9
19280	40.1	183	-	0.63	7.9
22120	40.1	183	-	0.63	7.9
22550	40.1	183	-	0.63	7.9
11675	26.7	-	320	-	-
11955	20.0	-	353	-	-

Speaker Cable

Flexible Speaker Extension Cable



Application:

Wiring of extension speakers and power supply to electronic equipment

Benefits	
Extreme Flexibility	Class 5 flexible conductor stranding for easy installation
Easy to Install	Soft V75 PVC insulation provides increased flexibility for confined installations
Features	
✓	Fine conductor stranding for high flexing
✓	RoHS compliant to meet European environmental requirements
✓	Available in clear and gold insulation
✓	Oxygen free copper for high conductivity soldered connections
Construction	
Conductor	Oxygen free plain annealed copper wire, class 5
Insulation	V75 PVC
Colours	Clear or Gold
Ratings	
Temperature	-10°C to + 75°C
Voltage	250/250V
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS3191, AS/NZS1660.5.6, IEC 60228, IEC 60332-1

Speaker Cable

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
15500	2 x 2.64	84/0.20	4.3 x 9.2	22	89

*Current ratings based on AS/NZS 3808.1:2009 Table 4, Column 9



Flexible Conductor: Class 5



Oxygen Free Copper



Minimum Service Temperature: -10°C



Maximum Service Temperature: 75°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



UV Resistant



**Interested to see how cables are manufactured?
Call to organise a factory tour of our Sydney based
production facility**



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DC Cable

Garden Lighting and Automotive Cable



Application:

For use in extra low voltage applications such as garden lighting or the automotive industry

Benefits	
High Temperature	V90-HT PVC insulation suitable for continuous operating at high temperatures
Easy to Install	Class 5 flexible conductor stranding for easy installation
Extremely Flexible	PVC insulation allows for a small bending radius
Features	
✓	Fine conductor stranding for high flexing
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility
✓	RoHS compliant to meet European standards
✓	Oxygen free copper for high conductivity soldered connections
Construction	
Conductor	Oxygen free plain annealed copper wire, class 5
Insulation	V90-HT PVC
Sheath	V90-HT PVC (Applies to twin flat sheathed)
Colours	Figure 8 – Black Twin sheathed flat – Red and black cores, black sheath
Ratings	
Temperature	-10°C to + 90°C
Voltage	32V - Not suitable for connection to mains
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Flexible Conductor:
Class 5



Oxygen Free Copper



Minimum Service
Temperature:
-10°C



Maximum Service
Temperature:
90°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Flame
Non-Propagation



UV Resistant



Metre Marking

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Low Voltage Cable - Figure 8

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
30000	2 x 3.3	46/0.30	4.7 x 9.0	26	96
78036	2 x 10	140/0.30	6.5 x 13.3	63	239

Low Voltage Cable - Twin Flat Sheath

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
25330	2 x 1.2	17/0.30	4.2 x 6.8	16	58
25580	2 x 2	28/0.30	4.8 x 7.6	20	76
25690	2 x 3	19/0.45	5.2 x 8.7	26	100
26580	2 x 5	31/0.45	6.0 x 10.3	35	163

*Current ratings based on AS/NZS3008.1.1:2009 Table 10, Column 3

Marine Cable

General Power, Battery and Starter Marine Cable



Application:

General purpose 32V DC marine and battery applications

Benefits	
Tinned Copper Conductors	Tinned copper conductors minimise the affects of corrosion and oxidation
Longer Lifespan	Salinity accelerates the corrosion of copper so a tin coating protects the conductor and increases the lifespan
Extremely Flexible	Battery and starter cable contains class 5 conductor stranding for easier use
High Temperature Range	High grade PVC allows for operation at higher temperatures
Features	
✓	RoHS compliant to comply with European standards
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	V90-HT insulation for high ambient temperature applications, long term durability and flexibility
Construction	
Conductor	Oxygen free tinned annealed copper wire, class 2
Insulation	V90-HT PVC
Sheath	V90-HT PVC (Sheathed cables only)
Colours	Single Core and B & S – Red and black Figure 8 - White and white with black hash mark Twin Sheathed Flat – Red and black cores, white sheath
Ratings	
Temperature	-10°C to + 90°C
Voltage	32V - Not suitable for connection to mains
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS1660.5.6, IEC 60228, IEC 60332-1



Oxygen Free, Tinned Copper for Corrosion Resistance



Minimum Service Temperature: -10°C



Maximum Service Temperature: 90°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Flame Non-Propagation



Metre Marking

Marine Cable - Single Core

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
20430	2	28/0.30	3.0	21	27
20590	5	31/0.45	4.4	38	64

Marine Cable - Battery and Starter

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating† Amps	Weight kg/km
33300	25 (3 B & S)	360/0.30	10.4	168	332
20614	32 (2 B & S)	455/0.30	11.3	188	428

Marine Cable - Twin Flat Sheathed

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating† Amps	Weight kg/km
11960	2 x 2	28/0.30	4.8 x 7.6	20	77
14200	2 x 5	31/0.45	6.0 x 10.3	35	167

Marine Cable - Figure 8

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No. Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
14600	2 x 2	28/0.30	3.0 x 6.1	26	54

*Current ratings based on AS/NZS3008.1.1:2009 Table 4, Column 3

†JASO D609 single core at 30°C 100% Duty Cycle

*Current ratings based on AS/NZS3008.1.1:2009 Table 10, Column 3

Telephone Cable

Underground – Dry Core Telephone Cable



Application:

For connecting telephones networks to the exchange above and below ground. For use in switchboards and internal wiring

Benefits	
Low Capacitance	Low capacitance cable gives less signal attenuation and allows the signal to travel further without distortion
Easy to Solder	Large diameter, single strand wire assists with soldering and allows for easy connection
Termite Protection	Optional nylon jacket provides protection against termites in underground installations
Features	
✓	Nylon jacket telecom cable is suitable for installation underground
✓	Tape over bunched pairs allows the sheath to be removed easily to assist in installation
✓	Large conductor size for less attenuation and easy installation
✓	Oxygen free copper for high conductivity soldered connections
Construction	
Conductor	Oxygen free plain annealed copper wire, class 1
Insulation	PE
Sheath	PE (Additional nylon jacket PA 12 available)
Colours	2 Pair – White/blue and red/black 6 Pair – White/blue, white/brown, white/orange, white/grey, white/green and red/blue 10 Pair – Red/brown, whitebrown, red/orange, white/orange, red/blue, white/blue, red/grey, white/grey, red/green and white/green
Ratings	
Temperature	-25°C to + 70°C
Voltage	ELV - 50V a.c. 120V ripple free d.c.
Applicable Standards	AS/NZS1125, AS/NZS1049, IEC 60228



Oxygen Free Copper



Minimum Service Temperature: -25°C



Maximum Service Temperature: 70°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Minimum Recommended Bend Radius Fixed 8 x OD

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Telephone Cable

Bambach Item Code	No. of Pairs x Conductor O.D. mm	Conductor Stranding No. Strands/mm	Nom Ø mm	Weight kg/km
14510	2 x 0.91	1/0.91	7.1	46
14520	6 x 0.91	1/0.91	12.0	125
14535	10 x 0.91	1/0.91	13.3	183

Underground Telephone Cable – Nylon Jacket

Bambach Item Code	No. of Pairs x Conductor O.D. mm	Conductor Stranding No. Strands/mm	Nom Ø mm	Weight kg/km
14515	2 x 0.91	1/0.91	7.7	51



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Pump Cable

Submersible Pump Cable



Application:















Power and control cable for pumps and other submerged equipment. For use in deep underwater applications

Benefits	
Submersible	Suitable for permanent deep water installations
Extremely Flexible	Flexible cable using class 5 conductors
Easy to Install	Flexible insulation and sheath for use in confined applications
Easy to Fit	Cable manufactured to fit common gland sizes
Suitable For Outdoors	UV resistant sheath extends life in exposed environments
Chemical Resistance	Excellent resistance to acids, alkalis, sewerage and ozone
Excellent Screening	Tinned copper braid reduces EMI from surrounding environment

Features	
✓	Fine conductor stranding for high flexing
✓	RoHS compliant to European environmental requirements
✓	Oxygen free tinned copper for high conductivity soldered connections and corrosion protection
✓	Tinned copper braid with 85% minimum coverage provides excellent EMI protection
✓	TPV insulation and sheath provides excellent ozone, water, chemical and weathering resistance
✓	All cables have specific diameters to suit common gland sizes

Construction	
Conductor	Oxygen free tinned annealed copper wire, class 5
Insulation	TPE-75 – Thermoplastic vulcanizate
Screening	Oxygen free tinned annealed copper wire (as specified)
Sheath	GP-75-TPE – Thermoplastic vulcanizate
Colours	Cores - Black, brown, blue, green/yellow - Pilots – White with black numbers

Ratings	
Temperature	-30°C to + 75°C
Voltage	0.6/1kV
Applicable Standards	AS/NZS1125, AS/NZS3808, AS/NZS5000.1 (Generally), IEC 60228

 Flexible Conductor: Class 5	 Oxygen Free, Tinned Copper for Corrosion Resistance	 Minimum Service Temperature: -30°C	 Maximum Service Temperature: 75°C
 Maximum Short Circuit Temperature: 160°C (Max 5s)	 Impact Resistant	 Grease & Mineral Oils Resistant	 Chemical & Oil Resistant
 UV Resistant	 Water Resistant	 Halogen Free	 Submersible Pumps
 Metre Marking	 Minimum Recommended Bend Radius Fixed 4 x OD		

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Pump Cable - Unscreened

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
14988	4 Core x 2.5mm ² + 4 Pilots x 0.75mm ²	50/0.25 24/0.20	15.0	21	210
14990	4 Core x 4mm ² + 4 Pilots x 1mm ²	56/0.30 32/0.20	20.0	28	410
14992	4 Core x 6mm ² + 4 Pilots x 1mm ²	84/0.30 32/0.20	18.5	36	498
14994	4 Core x 10mm ² + 4 Pilots x 1mm ²	140/0.30 32/0.20	20.5	51	632
14996	4 Core x 16mm ² + 4 Pilots x 1mm ²	224/0.30 32/0.20	28.0	67	1095

Pump Cable - Screened

Bambach Item Code	Conductor CSA mm ²	Conductor Stranding No of Strands/mm	Nom Ø mm	Current Rating* Amps	Weight kg/km
15000	4 Core x 4mm ² + 4 Pilots x 1mm ²	56/0.30 32/0.20	19.5	28	491
15001	4 Core x 6mm ² + 4 Pilots x 1mm ²	84/0.30 32/0.20	21.5	36	731
15002	4 Core x 10mm ² + 4 Pilots x 1mm ²	140/0.30 32/0.20	25.5	51	917
15003	4 Core x 16mm ² + 4 Pilots x 1mm ²	224/0.30 32/0.20	29.5	67	1281

* Current ratings based on AS/NZS3008.1.1:2009 table 13 column 6



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Refer to our Rail Catalogue for more details



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Conductor Information

Common Conductor Sizes, Resistance Values and Weights

CSA mm ²	DC Resistance at 20°C Ω/km	Weight kg/km
0.22	82.29	2.1
0.35	51.72	3.2
0.5	36.21	4.7
0.75	24.14	7.0
1	18.10	9.4
1.5	12.07	13.8
2.5	7.24	22.9
4	4.53	37.0
6	3.02	55.4
10	1.81	92.4
16	1.13	147.8
25	0.72	230.9
35	0.52	328.7
50	0.36	459.8
70	0.26	652.8
95	0.19	885.9
120	0.15	1114.4

Wire Gauge and Conductor Area

Gauge	CSA mm ²	Gauge	CSA mm ²
26	0.13	11	4.16
25	0.16	10	5.27
24	0.21	9	6.63
23	0.26	8	8.35
22	0.32	7	10.54
21	0.41	6	13.29
20	0.52	5	16.76
19	0.65	4	21.14
18	0.82	3	26.65
17	1.04	2	33.61
16	1.31	1	42.38
15	1.65	0	53.45
14	2.09	0 0	67.40
13	2.63	0 0 0	84.91
12	3.30	0 0 0 0	104.09



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AC Resistance

Flexible Conductors (Class 5/6) at 50Hz, Ω/km

CSA mm ²	Single Core Conductor Temperature, °C			Multi Core Conductor Temperature, °C		
	75	90	110	75	90	110
0.5	47.40	49.70	52.80	47.40	49.70	52.80
0.75	31.60	33.20	35.20	31.60	33.20	35.20
1	23.70	24.90	26.40	23.70	24.90	26.40
1.5	16.20	17.00	18.00	16.20	17.00	18.00
2.5	9.70	10.20	10.80	9.70	10.20	10.80
4	6.02	6.31	6.70	6.02	6.31	6.70
6	4.01	4.21	4.47	4.01	4.21	4.47
10	2.32	2.44	2.59	2.32	2.44	2.59
16	1.47	1.54	1.64	1.47	1.54	1.64
25	0.949	0.995	1.061	0.949	0.995	1.060
35	0.674	0.707	0.750	0.674	0.707	0.750
50	0.470	0.493	0.523	0.470	0.493	0.523
70	0.332	0.348	0.369	0.332	0.348	0.369
95	0.252	0.264	0.280	0.252	0.264	0.280
120	0.197	0.207	0.219	0.198	0.207	0.219

* Values based on AS3008.1.1:2009 table 37. For the resistance of tinned copper, multiply values by 1.01

Circular Conductors (Class 2) at 50Hz, Ω/km

CSA mm ²	Single Core Conductor Temperature, °C			Multi Core Conductor Temperature, °C		
	75	90	110	75	90	110
1	25.8	27.0	28.7	25.8	27.0	28.7
1.5	16.5	17.3	18.4	16.5	17.3	18.4
2.5	9.01	9.45	10.0	9.01	9.45	10.0
4	5.61	5.88	6.24	5.61	5.88	6.24
6	3.75	3.93	4.17	3.75	3.93	4.17
10	2.23	2.33	2.48	2.23	2.33	2.48
16	1.40	1.47	1.56	1.40	1.47	1.56
25	0.884	0.927	0.984	0.884	0.927	0.984
35	0.638	0.668	0.710	0.638	0.669	0.710
50	0.471	0.494	0.524	0.471	0.494	0.524
70	0.327	0.342	0.363	0.327	0.343	0.364
95	0.236	0.247	0.262	0.236	0.248	0.262
120	0.188	0.197	0.208	0.188	0.197	0.209

* Values based on AS3008.1.1:2009 table 34 and 35. For the resistance of tinned copper, multiply values by 1.01

Three Phase Voltage Drop

Flexible Conductors (Class 5/6) at 50Hz, mV/A.m

CSA mm ²	Single Core Conductor Temperature, °C			Multi Core Conductor Temperature, °C		
	75	90	110	75	90	110
0.5	82.20	86.10	91.40	82.20	86.10	91.40
0.75	54.80	57.40	61.00	54.80	57.40	61.00
1	41.10	43.10	45.70	41.10	43.10	45.70
1.5	28.00	29.40	31.20	28.00	29.40	31.20
2.5	16.80	17.60	18.70	16.80	17.60	18.70
4	10.40	10.90	11.60	10.40	10.90	11.60
6	6.96	7.29	7.74	6.95	7.29	7.74
10	4.03	4.22	4.48	4.03	4.22	4.48
16	2.56	2.68	2.85	2.55	2.68	2.84
25	1.66	1.74	1.84	1.65	1.73	1.84
35	1.18	1.24	1.31	1.18	1.23	1.31
50	0.837	0.875	0.926	0.827	0.866	0.917
70	0.603	0.630	0.665	0.591	0.618	0.654
95	0.473	0.492	0.518	0.457	0.477	0.504
120	0.385	0.399	0.419	0.367	0.383	0.403

* Values based on AS3008.1.1:2009 table 41 and 42. To determine single phase voltage drop, the current in the neutral conductor needs to be considered by multiplying the three phase value by 1.155

Circular Conductors (Class 2) at 50Hz, mV/A.m

CSA mm ²	Single Core Conductor Temperature, °C			Multi Core Conductor Temperature, °C		
	75	90	110	75	90	110
1	44.7	46.8	49.7	44.7	46.8	49.7
1.5	28.6	30.0	31.9	28.6	30.0	31.9
2.5	15.6	16.4	17.4	15.6	16.4	17.4
4	9.71	10.2	10.8	9.71	10.2	10.8
6	6.49	6.81	7.23	6.49	6.80	7.22
10	3.86	4.05	4.30	3.86	4.05	4.29
16	2.43	2.55	2.71	2.43	2.55	2.70
25	1.55	1.62	1.72	1.54	1.61	1.71
35	1.12	1.18	1.25	1.11	1.17	1.24
50	0.840	0.878	0.929	0.829	0.868	0.920
70	0.597	0.623	0.657	0.583	0.609	0.645
95	0.449	0.467	0.491	0.431	0.450	0.475
120	0.371	0.385	0.403	0.351	0.366	0.385

* Values based on AS3008.1.1:2009 table 47 and 48. To determine single phase voltage drop, the current in the neutral conductor needs to be considered by multiplying the three phase value by 1.155

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