

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

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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

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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
Bend Radius Fixed 6 x OD

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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.

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

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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)

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