



Not Sure Which Cable You Need? Start Here!

Find your application below for a quick guide to the most commonly recommended cable sizes. All cables stocked are genuine Australian-made Tycab — consistent conductor size, quality insulation, and built to Australian standards.

Important: This table is intended as a quick guide only. The correct cable size depends on current draw, cable length, voltage drop and the equipment manufacturer's recommendations. If you're unsure which cable is right for your application, contact HS Auto Parts — we'll happily recommend the correct genuine Tycab cable for your installation. * Inverter cable sizing varies significantly with power output and cable length. Always refer to the inverter manufacturer's installation instructions.

I'm Wiring...	Recommended Starting Point
Driving lights or work lights	4 mm Single Core or 2 x 3 mm Twin Core
UHF radio or accessories	3 mm or 4 mm Single Core
Dual battery system	8 B&S or 6 B&S Battery Cable
DC-DC charger	6 B&S Battery Cable or 2 x 6 B&S Twin Core
Caravan battery charging	2 x 6 B&S Twin Core
Electric trailer brake controller	6 mm Single Core or suitable Multi-Core Cable
Anderson plug installation	8 B&S or 6 B&S Battery Cable
Portable fridge	2 x 4 mm or 2 x 5 mm Twin Core
Solar panel wiring	2 x 4 mm or 2 x 6 mm Twin Core
Inverter (up to ~1000 W)*	2 B&S or larger (depending on cable length)
Large inverter (2000 W+)*	00 B&S or 000 B&S (short cable runs recommended)
Winch	2 B&S, 1 B&S or larger (manufacturer's recommendation)

Important Notes

- › Cross-sectional area (mm²) is the best way to compare cable sizes
- › Longer cable runs often require a larger cable to reduce voltage drop
- › Current ratings vary with installation conditions
- › Genuine Australian-made Tycab cable provides consistent conductor size and quality
- › If you're unsure which cable to use, we're happy to give advice

Contact Us

- › **Shop online:** www.hsautoparts.com.au
- › **Phone:** (03) 9879-1412
- › **Email:** support@hsautoparts.com.au
- › **Hours:** Mon–Fri, business hours
- › Refer to pages 2–4 for full cable specifications and gauge sizing

Genuine Tycab Cable — Australian Made

All automotive cable stocked by HS Auto Parts is genuine Australian-made Tycab. Consistent conductor sizing, quality PVC insulation, and manufactured to Australian standards. Don't risk substandard imported cable — insist on genuine Tycab for reliable, safe installations.

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Legend: Lighting Accessories Battery/Charging High Current/Inverters Caravan Trailer Commercial UHF

Single Core Automotive Cable

hsautoparts.com.au/single-core-cable

Cable Size	Nom. Area mm²	Amp Rating	Typical Common Uses	Recommended Applications	Shop Online	Gauge Guide
3mm	1.13	20	Relays, gauges, LED lighting, trigger wires	Lighting • Control wiring	hsautoparts.com.au	
4mm	1.84	28	Driving lights, reverse lights, work lights	Lighting • Accessories	hsautoparts.com.au	
5mm	2.90	37	Compressors, charging circuits	Accessories • Power feeds	hsautoparts.com.au	
6mm	4.59	48	Brake controllers, power distribution	Brake controllers • Heavy accessories	hsautoparts.com.au	

Twin Core Automotive Cable

hsautoparts.com.au/twin-core-cable

Cable Size	Nom. Area mm² (ea)	Amp Rating	Typical Common Uses	Recommended Applications	Shop Online	Gauge Guide
2 x 2mm	0.56	8	LED lighting, pumps	Lighting • Camping	hsautoparts.com.au	
2 x 3mm	1.13	16	Driving lights, UHF	4WD accessories	hsautoparts.com.au	
2 x 4mm	1.84	22	Fridges, solar	Camping • DC charging	hsautoparts.com.au	
2 x 5mm	2.90	29	Large fridges, caravan accessories	Caravan power	hsautoparts.com.au	
2 x 6mm	4.59	38	Anderson plugs, inverters	Caravan charging	hsautoparts.com.au	
2 x 8 B&S	7.71	59	Trailer charging, brake controllers	Trailers • Dual batteries	hsautoparts.com.au	
2 x 6 B&S	13.5	82	Lithium, DC-DC chargers	High-performance charging	hsautoparts.com.au	
2 x 2 B&S	32.07	150	Winches, large inverters	Extreme current	hsautoparts.com.au	



Legend: Lighting Accessories Battery/Charging High Current/Inverters Caravan Trailer Commercial UHF

Multi-Core Automotive Cable

hsautoparts.com.au/multi-core-cable

Cable Size	Nom. Area mm² (ea)	Amp Rating	Typical Common Uses	Recommended Applications	Shop Online	Gauge Guide
3 x 3mm	1.13	14	Trailer wiring	Brake controllers	hsautoparts.com.au	
3 x 4mm	0.92	12	Electric brakes	Caravans	hsautoparts.com.au	
5 x 2mm	0.56	7	Trailer lighting	General trailers	hsautoparts.com.au	
5 x 3mm	1.13	11	Brake controllers	Trailers	hsautoparts.com.au	
5 x 4mm	1.84	15	Heavy-duty trailer wiring	Commercial trailers	hsautoparts.com.au	
7 x 2mm	0.56	5	Standard trailer wiring	Box trailers	hsautoparts.com.au	
7 x 3mm	1.13	10	Trailer + auxiliary	Caravans	hsautoparts.com.au	
7 x 4mm	1.84	14	Heavy-duty caravans	Commercial	hsautoparts.com.au	

Multi-Core Cable Notes: Multi-core cables are used where multiple circuits need to be run together — ideal for trailer lighting, brake controllers, and caravan wiring. Each core carries its own current; the amp rating listed is per-core. For trailer installations, confirm pin/connector compatibility with your towing vehicle.

HS Auto Parts — Your Genuine Tycab Cable Specialist

Browse our full range of single core, twin core, multi-core and battery cable online. Australia-wide delivery. If you're not sure, call us — we can help you choose the right cable for your specific installation.

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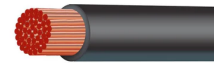
Legend: Lighting Accessories Battery/Charging High Current/Inverters Caravan Trailer Commercial UHF

Battery Automotive Cable (B&S)

hsautoparts.com.au/battery-cable

Cable Size	Nom. Area mm²	Amp Rating	Typical Common Uses	Recommended Applications	Shop Online	Gauge Guide
8 B&S	7.71	74	Dual batteries, Anderson plugs	Brake controllers • Caravan charging	hsautoparts.com.au	
6 B&S	13.5	103	Lithium charging, DC-DC chargers	4WDs • Caravans	hsautoparts.com.au	
4 B&S	20.26	135	Battery interconnects, inverters	Power distribution	hsautoparts.com.au	
3 B&S	26.45	168	Battery banks	High-current charging	hsautoparts.com.au	
2 B&S	32.07	188	Winches, large inverters	Off-road • Commercial	hsautoparts.com.au	
1 B&S	39.55	210	Large winches	Heavy battery connections	hsautoparts.com.au	
0 B&S	49.00	246	Starter motors	Battery-to-battery links	hsautoparts.com.au	
00 B&S	64.15	292	Large inverters (short runs), diesel starting	4WD • Caravan • Industrial	hsautoparts.com.au	
000 B&S	83.19	335	Very large inverters (short runs), trucks, marine	Industrial • Marine	hsautoparts.com.au	

Battery Cable Note: B&S (Brown & Sharpe / AWG) sizing is the standard for heavy-duty automotive battery cable in Australia. Always use appropriate lugs, correct cable management, and adequate fusing for all high-current installations. When in doubt, go up a size — especially for longer cable runs. Contact HS Auto Parts for termination advice.



The **Gauge Guide** shapes on pages 2–4 help you determine the overall size (including insulation) of an unmarked cable. If this guide is printed on an A4 sheet of paper at 100% scale, the Gauge Guide shapes will reflect the actual outside diameter of our cables. To measure your cable, find the chart for the type of cable you are searching, and press a cleanly-cut cable end against the guide until you find the appropriately-sized Gauge Guide shape.

****** Actual diameters may vary depending on the age, make and insulation thickness of your cable ******
 Always print this guide at 100% (actual size) — do NOT scale to fit or use “fit to page”. This is an A4-format document.

Step 1: Identify Your Cable Type

Determine whether your cable is single core, twin core, multi-core, or battery cable. This tells you which table (pages 2, 3, or 4) to use for the gauge guide.

If your cable is unmarked, the gauge guide shapes on the relevant page will help you identify the size by matching the cut end of your cable to the closest matching shape.

Tip: Make a clean, square cut for the most accurate comparison.

Step 2: Match to the Gauge Guide

With the guide printed at 100% on A4 paper, hold the cut end of your cable against the Gauge Guide shapes in the relevant table column. The shape that most closely matches the outside diameter of your cable indicates the cable size.

For twin core cables, the oval shape represents the flat cross-section profile of the cable.

Note: Gauge Guide sizes represent the outside diameter of HS Auto Parts / Tycab cable. Third-party cables may vary.

Step 3: Calculate Cable Area (if still unsure)

If you are still not sure, the most accurate way to measure your cable is to determine the area in mm² of the copper conductors. As an example, let's use 3mm auto cable:

Count the total number of strands: 14 Measure the diameter of one strand: 0.32mm

In this case: 14 strands × 0.32mm each

1. Square (multiply by itself) the diameter of each strand: $0.32 \times 0.32 = 0.1024$
2. Multiply this result by π (Pi = 3.14): $0.1024 \times 3.14 = 0.321536$
3. Divide this result by 4: $0.321536 \div 4 = 0.080384$
4. Multiply this result by the number of strands: $0.080384 \times 14 = 1.125376$

Therefore the approximate area for 3mm auto cable is: 1.13 mm² · matching the table on page 2. Hope this helps choose your cable!

This guide is provided for reference purposes only. Cable ratings are indicative for open-air, single-cable installations. Always consult a qualified auto electrician for safety-critical installations. HS Auto Parts accepts no liability for incorrect cable selection.

Need Help Choosing? Talk to an Expert.

Call us on (03) 9879-1412 or email support@hsautoparts.com.au — we'll help you identify the right genuine Tycab cable for your installation. Browse and order online 24/7 with Australia-wide delivery.

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