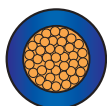


# STANDARD PVC AUTO CABLE

Standard PVC Auto Cable is a general purpose, low voltage cable, made up of flexible conductors of stranded copper wire which are PVC insulated. It is suitable for a variety of automotive and marine applications in working temperatures up to 70°C, and multi-core versions are commonly used in most British and European towing and trailer applications. Cable descriptions state the number and size of cable strands rather than the total cross-sectional area of the conductor. Typical uses might include: side/tail lamps, indicators, fog lamps, car alarms & stereos (9/0.30 and 14/0.30), head lamps, wipers, cigar lighters, screen heaters, fuel pumps (21/0.30 and 28/0.30), charging circuits, battery feeds (35/0.30 and 44/0.30), heavy duty charging circuits and alternator feeds (65/0.30 to 120/0.30).

## SINGLE CORE PVC AUTO



Semloh Code	Conductor Stranding (No. of Wires/ Diameter mm)	Nominal Conductor Area (mm <sup>2</sup> )	Reel Sizes Available						Maximum Overall Cable Diameter (mm)	Conductor Resistance at 20°C (Ω per Km)	Conductor Nominal Current Rating (Amps)
			Bulk	500m	250m	100m	50m	30m			
SE109	9/0.30	0.65	■	■	■	■	■	■	2.5	29.40	5.75
SE114	14/0.30	1.0	■	■	■	■	■	■	2.7	18.90	8.75
SE121	21/0.30	1.5	■	■	■	■	■	■	3.1	12.50	12.75
SE128	28/0.30	2.0	■	■	■	■	■	■	3.4	9.40	17.50
SE135	35/0.30	2.5	■	■	■	■	■	■	3.8	7.50	21.75
SE144	44/0.30	3.0	■	■	■	■	■	■	4.2	6.00	27.50
SE156	56/0.30	4.0	■	■	■	■	■	■	4.5	4.70	32.00
SE165	65/0.30	4.5	■	■	■	■	■	■	5.1	4.10	35.00
SE184	84/0.30	6.0	■		■	■	■	■	5.9	3.10	42.00
SE197	97/0.30	7.0	■			■	■	■	6.2	2.70	50.00
SE1120	120/0.30	8.5	■			■	■	■	7.0	2.20	60.00
SE180	80/0.40	10.0	■			■	■	■	7.5	1.80	70.00

- Individual conductors manufactured in compliance with BS EN60228:2005 and ISO 6722:2006 (Class B)
  - Cable manufactured in accordance with BS 6862 Part 1:1971 where applicable
- Working temperature -15°C to +70°C • Maximum Voltage 60v - Suitable for most 12v and 24v Systems
  - PVC Insulation resistant to petrol/diesel, oil and diluted acids
  - Plain copper stranded conductors - PVC sheathed
- Available in a wide range of plain and striped outer PVC sheathed colours - please speak to our Sales Dept

# TWO CORE (FLAT) PVC AUTO



Semloh Code	Conductor Stranding (No. of Wires/ Diameter mm)	Nominal Conductor Area (mm <sup>2</sup> )	Reel Sizes Available						Maximum Overall Cable Diameter (mm)	Conductor Resistance at 20°C (Ω per Km)	Conductor Nominal Current Rating (Amps)
			Bulk	500m	250m	100m	50m	30m			
SE209	2 x 9/0.3	2 x 0.65	■	■	■	■	■	■	6.1 x 3.8	29.4	5.75
SE214	2 x 14/0.3	2 x 1.0	■	■	■	■	■	■	6.5 x 4.0	18.9	8.75
SE221	2 x 21/0.3	2 x 1.5	■	■	■	■	■	■	7.3 x 4.5	12.6	12.75
SE228	2 x 28/0.3	2 x 2.0	■		■	■	■	■	7.9 x 4.8	9.4	17.50
SE235	2 x 35/0.3	2 x 2.5	■		■	■	■	■	9.1 x 5.6	7.5	21.75
SE244	2 x 44/0.3	2 x 3.0	■		■	■	■	■	9.5 x 5.8	6.0	27.50
SE256	2 x 56/0.3	2 x 4.0	■			■	■	■	10.4 x 6.3	4.7	32.00
SE265	2 x 65/0.3	2 x 4.5	■			■	■	■	11.5 x 7.3	4.1	35.00

- Individual conductors manufactured in compliance with BS EN60228:2005 and ISO 6722:2006 (Class B)
- Cable manufactured in accordance with BS 6862 Part 1:1971 where applicable
- Working temperature -15°C to +70°C • Maximum Voltage 60v - Suitable for most 12v and 24v Systems
- PVC Insulation resistant to petrol/diesel, oil and diluted acids • Plain copper stranded conductors - PVC sheathed
- Outer PVC Sheath and Core PVC Insulation Colours : As per table below

## TWO CORE (FLAT) PVC AUTO - STANDARD COLOURS AVAILABLE

Semloh Code	OUTER Sheath colour	INNER TWIN CORE Colours Available					
SE209	<b>B</b> lack	<b>R</b> <b>B</b>	<b>W</b> <b>B</b>	<b>N</b> <b>W</b>			
SE214	<b>B</b> lack	<b>R</b> <b>B</b>	<b>W</b> <b>B</b>	<b>N</b> <b>W</b>	<b>U</b> <b>W</b>	<b>R</b> <b>W</b> <b>B</b> <b>Y</b>	
	<b>G</b> reen	<b>R</b> <b>B</b>					
	<b>R</b> ed	<b>R</b> <b>B</b>					
	<b>W</b> hite	<b>R</b> <b>B</b>					
SE221	<b>B</b> lack	<b>R</b> <b>B</b>					
SE228	<b>B</b> lack	<b>R</b> <b>B</b>		<b>N</b> <b>W</b>	<b>U</b> <b>W</b>	<b>B</b> <b>Y</b>	
	<b>G</b> reen	<b>R</b> <b>B</b>					
	<b>W</b> hite	<b>R</b> <b>B</b>	<b>W</b> <b>B</b>		<b>U</b> <b>W</b>	<b>R</b> <b>W</b>	
SE235	<b>B</b> lack	<b>R</b> <b>B</b>					
SE244	<b>B</b> lack	<b>R</b> <b>B</b>					
	<b>W</b> hite	<b>R</b> <b>B</b>					
SE256	<b>B</b> lack	<b>R</b> <b>B</b>					
SE265	<b>B</b> lack	<b>R</b> <b>B</b>					

Other Sheath and Core Colour Combinations may be available - Please speak to our Sales Dept.










# MULTICORE PVC AUTO



Semloh Code	Conductor Stranding (No. of Wires/ Diameter mm)	Nominal Conductor Area (mm <sup>2</sup> )	Reel Sizes Available						Maximum Overall Cable Diameter (mm)	Conductor Resistance at 20°C (Ω per Km)	Conductor Nominal Current Rating (Amps)	Outer Sheath Colour	Inner Core Colour
			Bulk	500m	250m	100m	50m	30m					
SE209R	2 x 9/0.3	2 x 0.65	■	■	■	■	■	■	6.5	29.4	5.75	Black	Black Red
SE214R	2 x 14/0.3	2 x 1.0	■	■	■	■	■	■	7.1	18.9	8.75		
SE228R	2 x 28/0.3	2 x 2.0	■		■	■	■	■	8.3	9.4	17.5		
SE309	3 x 9/0.3	3 x 0.65	■		■	■	■	■	7.0	29.4	5.75	Black	Black Green Red
SE314	3 x 14/0.3	3 x 1.0	■		■	■	■	■	7.5	18.9	8.75		
SE328	3 x 28/0.3	3 x 2.0	■			■	■	■	8.7	9.4	17.5		
SE409	4 x 9/0.3	4 x 0.65	■		■	■	■	■	7.9	29.4	5.75	Black	Brown Green Red White
SE414	4 x 14/0.3	4 x 1.0	■			■	■	■	8.9	18.9	8.75		
SE509	5 x 9/0.3	5 x 0.65	■			■	■	■	9.0	29.4	5.75	Black	Brown Green Red White and Yellow
SE514	5 x 14/0.3	5 x 1.0	■			■	■	■	10.0	18.9	8.75		
SE521	5 x 21/0.3	5 x 1.5	■			■	■	■	10.7	12.5	12.75		
SE502S	4 x 35/0.3 & 1 x 21/0.3	4 x 2.5 & 1 x 1.5	■			■	■	■	12.2	7.5 & 12.5	21.75 & 12.75	Slate Grey	
SE716	7 x 16/0.2	7 x 0.5	■			■	■	■	8.5	36.9	4.25	Black	Black Red Green Yellow Brown Blue and White
SE709	7 x 9/0.3	7 x 0.65	■			■	■	■	9	29.4	5.75		
SE714	7 x 14/0.3	7 x 1.0	■			■	■	■	10.7	18.9	8.75		
SE700	6 x 9/0.3 & 1 x 14/0.3	6 x 0.65 & 1 x 1.0	■			■	■	■	9.2	29.4 & 18.9	5.75 & 8.75		
SE703	6 x 9/0.3 & 1 x 28/0.3	6 x 0.65 & 1 x 2.0	■			■	■	■	9.9	29.4 & 9.4	5.75 & 17.5		
SE701N	6 x 14/0.3 & 1 x 28/0.3	6 x 1.0 & 1 x 2.0	■			■	■	■	10.6	18.9 & 9.4	8.75 & 17.5		
SE702N	6 x 21/0.3 & 1 x 35/0.3	6 x 1.5 & 1 x 2.5	■			■	■	■	11.8	12.5 & 7.5	12.75 & 21.75		
SE702S	6 x 21/0.3 & 1 x 35/0.3	6 x 1.5 & 1 x 2.5	■			■	■	■	11.8	12.5 & 7.5	12.75 & 21.75	Slate Grey	
SE802	7 x 9/0.3 & 1 x 28/0.3	7 x 0.65 & 1 x 2.0	■			■	■	■	10.4	29.4 & 9.4	5.75 & 17.5	Black	BRGYNPW and W
SE801	7 x 14/0.3 & 1 x 28/0.3	7 x 1.0 & 1 x 2.0	■			■	■	■	10.8	18.9 & 9.4	8.75 & 17.5		
SE100	9 x 14/0.3 & 1 x 28/0.3	9 x 1.0 & 1 x 2.0	■			■	■	■	13.3	18.9 & 9.4	8.75 & 17.5	Black	BOUNSGPRY and W
SE1300	8 x 21/0.3 & 5 x 35/0.3	8 x 1.5 & 5 x 2.5	■			■	■	■	15.9	12.5 & 7.5	12.75 & 21.75	Black	RKNUGBY W/UOS W/R W/B & W

- Individual conductors manufactured in compliance with BS EN60228:2005 and ISO 6722:2006 (Class B)
  - Cable manufactured in accordance with BS 6862 Part 1:1971 where applicable
- Working temperature -15°C to +70°C • Maximum Voltage 60v - Suitable for most 12v and 24v Systems
  - Plain copper stranded conductors - PVC sheathed
  - PVC insulation resistant to petrol/diesel, oil and diluted acids
- Outer PVC Sheath Colour : Black or Slate Grey • Core PVC Insulation Colours : As Table Above

# FLAT TWIN & MULTICORE PVC AUTO - TYPICAL USES

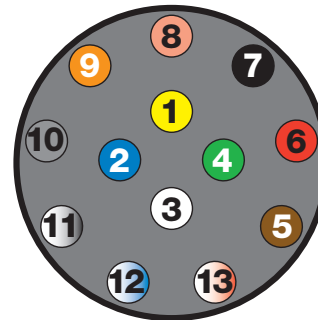
	Semloh Code	Cable Type	Nominal Wire X - Section	Continuous Current Rating	Typical Uses
	<b>SE214</b>	2 times 14/0.3	1mm <sup>2</sup>	8.75 amps	Lighter Duty low voltage use, such as Interior Lights, Tail/Side/No. Plate Lights, Alarms and Radio Cassette players.
	<b>SE228</b>	2 times 28/0.3	2mm <sup>2</sup>	17.5 amps	Medium Duty low voltage use, such as rear screen heaters, wiper motors, cigar lighter sockets and some water pumps.
	<b>SE235</b>	2 times 35/0.3	2.5mm <sup>2</sup>	21.75 amps	Heavy Duty low voltage use, such as charging cables for ammeter and battery feed circuits, and some marine use. Check the current rating required.
	<b>SE244</b>	2 times 44/0.3	3mm <sup>2</sup>	27.5 amps	Heavy Duty low voltage use, such as charging cables for ammeter and battery feed circuits, and some marine use. Check the current rating required.
	<b>SE502S</b>	12S 5 Core 4x35/0.3 1x21/0.3	4x2.5mm <sup>2</sup> 1x1.5mm <sup>2</sup>	4x21.75 amps 1x12.75 amps	The new heavy duty industry standard for 12S external connections, for caravans with heavier electrical needs.
	<b>SE709</b>	7 Core Cable 7x9/0.3	7x0.65mm <sup>2</sup>	5.75 amps	For light duty 12N Black exterior connection, for small trailers, standard lighting boards and some caravans.
	<b>SE701N</b>	12N 7 Core 6x14/0.3 1x28/0.3	6x1mm <sup>2</sup> 1x2mm <sup>2</sup>	6x8.75 amps 1x17.5 amps	For 12N Black exterior connection between car and caravan, to power the front and rear external running lights.
	<b>SE702S</b>	12S 7 Core 6x21/0.3 1x35/0.3	6x1.5mm <sup>2</sup> 1x2.5mm <sup>2</sup>	6x12.75 amps 1x21.75 amps	For 12S Grey external supplementary connection between car and caravan, to provide internal 12v power.
	<b>SE1300</b>	13 Core 8x21/0.3 5x35/0.3	8x1.5mm <sup>2</sup> 5x2.5mm <sup>2</sup>	8x12.75 amps 5x21.75 amps	The continental European standard 12N/12S single connection between car and caravan.

## 12N (Nominal) Black 7 Pin Socket Connections (Viewed from rear of socket)



Application	Socket Pin No.	Cable Core Colour
L.H. Indicator	1	Yellow
Rear Fog Lamp	2	BlUe
Earth	3	White
R.H. Indicator	4	Green
Right Tail/Side (& No. Plate)	5	BrowN
Stop Lights	6	Red
Left Tail/Side (& No. Plate)	7	Black

## Black 13 Pin Euro Socket Connections (Viewed from rear of socket)



Application	Socket Pin No.	Core Cross Section	Core Colour
L.H. Indicator	1	1.5mm <sup>2</sup>	Yellow
Rear Fog Lamp	2	1.5mm <sup>2</sup>	BlUe
Earth for contacts 1 to 8	3	2.5mm <sup>2</sup>	White
R.H. Indicator	4	1.5mm <sup>2</sup>	Green
Right Tail/Side (& No. Plate)	5	1.5mm <sup>2</sup>	BrowN
Stop Lights	6	1.5mm <sup>2</sup>	Red
Left Tail/Side (& No. Plate)	7	1.5mm <sup>2</sup>	Black
Reversing Lights	8	1.5mm <sup>2</sup>	PinK
+ 've Direct from Battery	9	2.5mm <sup>2</sup>	Orange
+ 've Ingintion Key On	10	2.5mm <sup>2</sup>	Slate Grey
Earth Return for Contact 10	11	2.5mm <sup>2</sup>	White/Black
Signalling Connection to Trailer	12	1.5mm <sup>2</sup>	White/BlUe
Earth Return for Contact 9	13	2.5mm <sup>2</sup>	White/Red

## 12S (Supplementary) Grey 7 Pin Socket Connections (Viewed from rear of socket)



Application	Socket Pin No.	Cable Core Colour
Reversing lights and/or Reversing Catch on Inertia Brakes	1	Yellow
NO ALLOCATION (may be used for auxillary battery charging)	2	BlUe
Earth (Common return)	3	White
Power Supply	4	Green
Sensing Device (i.e. warning light) with common return	5	BrowN
Power Supply for Refrigerator	6	Red
NO ALLOCATION (may be used spare earth for Refrigerator)	7	Black