



**Application**

- ✓ Low-tension electric wire for automobiles.
- ✓ Used in motorcycles and other motor vehicles for starting, charging, lighting, signal and instrument panel circuits.
- ✓ Especially used for circuits requiring heat resistance.

**Features**

- ✓ Excellent Flame retardant
- ✓ Highly resistant against acids, alkali, petrol and diesel
- ✓ Extra flexible conductors with Electron beam cross linked polyolefin thin wall insulation for smaller diameter and lesser weight
- ✓ Excellent flexibility
- ✓ Heat resistant
- ✓ Halogen free

**Product Construction**

- ✓ Conductor : Soft /annealed Plain Copper according to ISO 6722 (Symmetrical)
- ✓ Insulation : Electron beam cross linked Polyolefin Class C
- ✓ Colour : As per customer order
- ✓ Cable construction according to ISO 6722, Class C (Thin wall)
- ✓ Single core, Single layer insulation

Automotive Cables **Auto 125- TW**

**Technical Data**

- ✓ Temperature Range: -40°C to +125°C (3000 Hours)
- ✓ Standard : ISO 6722 Class C (Thin wall)
- ✓ Operating Voltage :
  - (i) (60 V DC (or) 25 V AC) (or)
  - (ii) (600V DC (or) 600 V AC)
- ✓ Test Voltage: 3kV (r.m.s.) for cables < 0.5 mm<sup>2</sup>  
5kV (r.m.s.) for cables ≥ 0.5 mm<sup>2</sup>

Approvals	Accreditations	Certifications

Part Number	Conductor Construction				Insulation Wall Thickness Nom.	Cable		Max. Conductor Resistance at 20°C	Current Carrying capacity	Standard Length*
	Nominal Cross-Section	No. of Strands	Diameter of Single wire Max.	Conductor Diameter Max.		Overall Diameter Max.	Weight Approx.			
	mm <sup>2</sup>	nos.	mm	mm	mm	mm	kg/km	Ω/km	Amps	mtrs
A81105XX*	0.35	7	0.27	0.90	0.25	1.30	5	54.4	12	2000
A81106XX	0.50	19	0.19	1.10	0.28	1.60	6	37.1	15	2000
A81108XX	0.75	19	0.24	1.30	0.30	1.90	9	24.7	19	2000
A81110XX	1	19	0.27	1.50	0.30	2.10	11	18.5	23	2000
A81113XX	1.5	19	0.33	1.80	0.30	2.40	17	12.7	30	2000
A81114XX	2	19	0.38	2.00	0.35	2.80	23	9.42	37	2000
A81116XX	2.5	37	0.28	2.20	0.35	3.00	26	7.60	42	2000
A81117XX	3	37	0.34	2.40	0.40	3.40	34	6.15	48	1000
A81119XX	4	37	0.38	2.80	0.40	3.70	42	4.71	57	1000
A81121XX	5	37	0.43	3.10	0.40	4.20	53	3.94	65	1000
A81123XX	6	37	0.45	3.40	0.40	4.30	60	3.14	71	1000
A81127XX	10	63	0.46	4.50	0.60	6.00	106	1.82	104	1000
A81128XX	16	105	0.46	5.80	0.65	7.20	177	1.16	140	1000
A81130XX	25	154	0.46	7.20	0.65	8.70	249	0.743	190	1000
A81132XX	35	551	0.30	8.50	0.80	10.40	350	0.527	230	1000
A81158XX	40	494	0.33	9.60	0.90	11.10	370	0.473	249	1000
A81134XX	50	798	0.30	10.50	0.90	12.20	455	0.368	285	1000

Class	A	B	C	D	E	F	G	H
Temperature from -40°C to	+85°C	+100°C	+125°C	+150°C	+175°C	+200°C	+225°C	+250°C

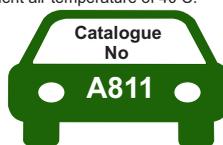
Cables conforming to the below categories are also available according to customer requirement  
 Conductor Configuration : Symmetrical, Asymmetrical, Flexible  
 Insulation thickness : Standard, Thin wall & Ultra thin wall  
 ISO 6722 Temperature Class Rating :

Note : XX\* : Please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	

\*\* We have obtained various approvals, accreditations, and certifications — some of which may not be relevant to this catalog.

- ✓ Current Carrying capacity given is for the maximum conductor operating of 125° C and ambient air temperature of 40°C.
- ✓ Cables are also available in dual colored insulation
- ✓ \* Other length as per Customer order.



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