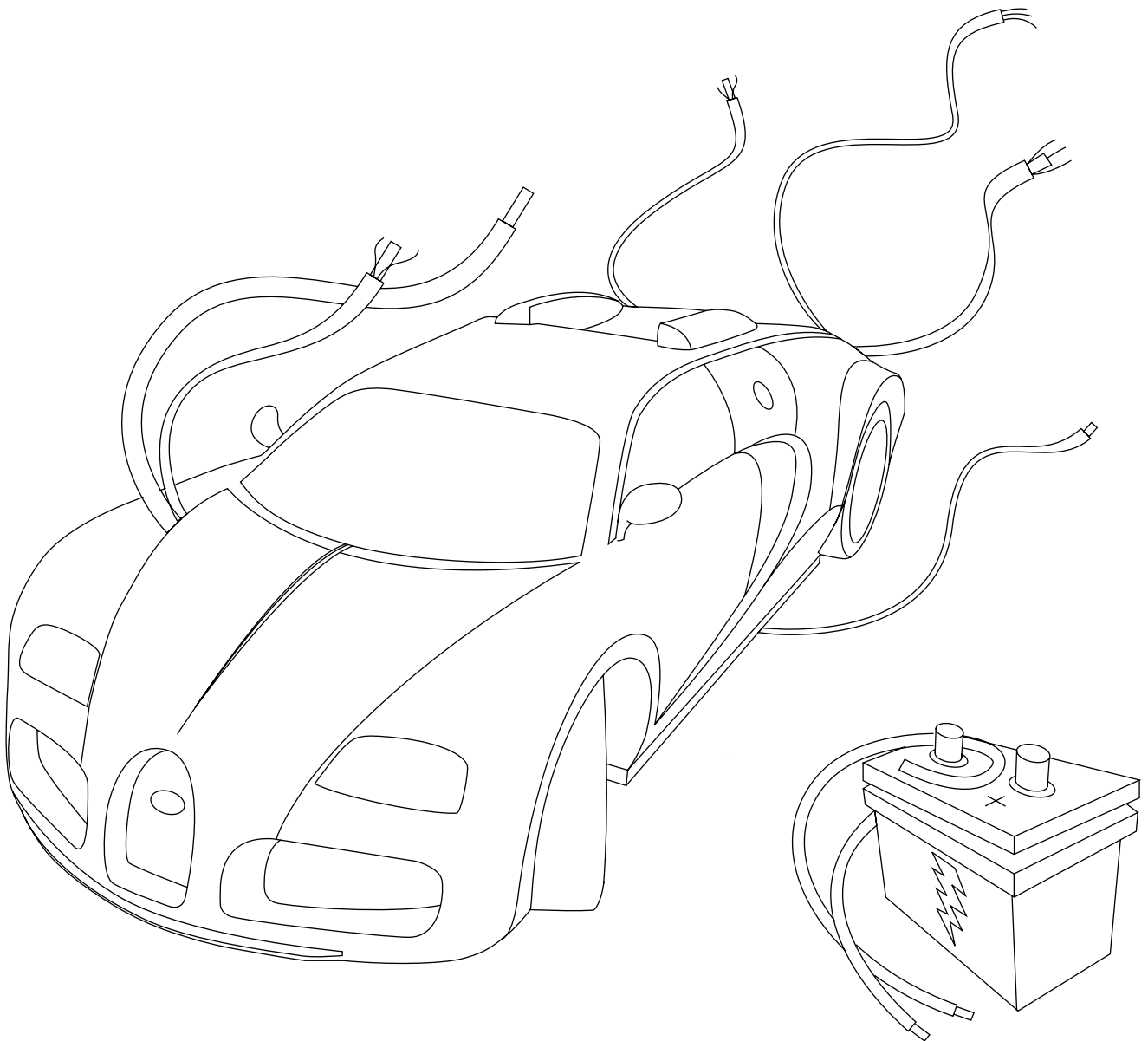


Auto & Battery Cables

MIRACLECABLESTM
Smart cable solutions

ISO
9001:2008
CERTIFIED COMPANY



Auto & Battery Cables - IS:2465

Applications

These cables are used as original equipments for wiring automobiles and in the auto harnesses. We also manufacture the Battery cable harnesses soldered/crimped for ready use by automobile manufacturer.

Single Core PVC Insulated Auto Cables as per IS : 2465/1984				
Conductor Nominal Area "sq. mm"	No.Of Wire/mm	Radial Thickness of Insulation (Nom.) "mm"	Overall Diameter (approx.) "mm"	Cables Parameters Current "Amp"
0.50	7/0.30	0.60	2.15	4
0.75	11/0.30	0.60	2.45	7
1.00	15/0.30	0.70	2.70	11
1.50	22/0.30	0.70	3.00	14
2.50	36/0.30	0.70	3.65	19
4.00	56/0.30	0.80	4.30	26
6.00	84/0.30	0.80	5.20	31
10.0	140/0.30	1.00	6.60	42

PVC Insulated Battery Cables as per IS : 2465/1984				
Conductor Nominal Area sq. "mm"	No.Of Wire/mm	Radial Thickness of Insulation (Nom.) "mm"	Overall Diameter (approx.) "mm"	Cables Parameters Current "Amp"
16	126/0.40	1.00	7.80	57
25	196/0.40	1.20	9.70	71
35	276/0.40	1.20	10.9	91
50	396/0.40	1.40	13.2	120
70	360/0.50	1.40	15.3	165
95	475/0.50	1.60	17.9	200
120	608/0.50	1.60	19.4	225
150	750/0.50	1.80	21.9	250
185	925/0.50	2.00	24.5	300
240	1221/0.50	2.20	28.0	425

Features

Manufactured from bright annealed 99.97% pure bare conductors, which offer low conductor resistance. These insulated with a special grade PVC compound formulate Manufactured in-house which is impervious to water, oil and acids etc.

Technical Data	
Temperature range	: -15°C + 70°C
Sizes	: 0.50 to 240 "sq.mm"

Auto & Battery Cables - DIN CABLES – FLRY-B

Applications

These wires used low voltage circuit in automobiles such a Vehicles and Motor cycles.

Features

These wires are concentric bunched copper conductor, Excellent Flexibility, ROHS compliance etc.



Specification Standard: DIN 72551 / 1996 FLRY-B					
Size	Conductor Strands	Conductor Diameter	Conductor Resistance 20°C(Max)	Insulation Thickness (Min)	Overall Diameter (Standard)
mm ²	No./mm	mm	Ω/km	mm	mm
0.35	12/0.21	0.90	52.0	0.20	1.40
0.50	16/0.21	1.00	37.10	0.22	1.60
0.75	24/0.21	1.20	24.7	0.24	1.90
1.00	32/0.21	1.35	18.5	0.24	2.10
1.50	30/0.26	1.70	12.7	0.24	2.40
2.50	50/0.26	2.20	7.6	0.28	3.00
4.00	56/0.31	2.75	4.7	0.32	3.70
6.00	84/0.31	3.30	3.10	0.32	4.30
10.0	80/0.41	4.55	1.82	0.60	6.00
15.0	182/0.32	-	1.30	0.80	7.40
16.0	126/0.41	-	1.16	0.80	7.70
20.0	248/0.32	-	0.887	1.10	8.80

Low Voltage Automobile Wires – AV (A=Low Voltage Automobile wire, V=Vinyl)

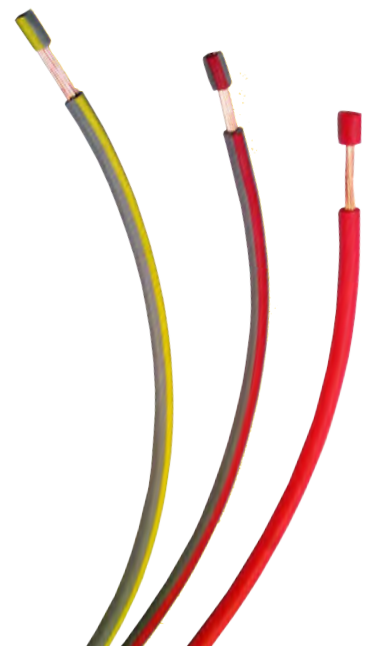
Applications: These wires used low voltage circuit in automobiles such a Vehicles and Motor cycles.

Features: As a Lighting, Signals, starting, charging etc. Where the high flexibility, Thermal and mechanical strength required.

Specification Standard: JIS C3406

Size	Conductor Strands	Conductor Diameter	Conductor Resistance 20°C(Max)	Insulation Thickness (Min)	Overall Diameter (Standard)	Current Limit
mm ²	No./mm	mm	Ω/km	mm	mm	Amps
0.5	7/0.32	1.0	32.7	0.6	2.2	12
0.85	11/0.32	1.2	20.8	0.6	2.4	16
1.25	16/0.32	1.5	14.3	0.6	2.7	21
2	26/0.32	1.9	8.81	0.6	3.1	28
3	41/0.32	2.4	5.59	0.7	3.8	38
5	65/0.32	3.0	3.52	0.8	4.6	51
8	50/0.45	3.7	2.32	0.9	5.5	66
0.5f	20/0.18	1.0	36.7	0.6	2.2	12
0.75f	30/0.18	1.2	24.4	0.6	2.4	15
1.25f	50/0.18	1.5	14.7	0.6	2.7	21
2f	37/0.26	1.8	9.50	0.6	3.0	28
3f	61/0.26	2.4	5.76	0.7	3.8	38

The "f" in the nominal size column indicates a flexible conductor with a finer wire diameter.
The current limit data is for conductor temperature of 80°C (maximum allowable temperature) and an ambient temperature of 40°C



Thin Low-Voltage Automobile Wires—AVS. (A=Low-Voltage Automobile wire, V=Vinyl S=Thin)

Applications

These wires used low voltage circuit in automobiles such a Vehicles and Motor cycles.

Features:

These wires constructed thinner than AV wires, for light weight and smaller space.



Specification Standard: JASO D611-94

Size	Conductor Strands	Conductor Diameter	Conductor Resistance 20°C	Insulation Thickness	Overall Diameter (Standard)	Current Limit
mm ²	No./mm	mm	Ω/km	mm	mm	Amps
0.3f	15/0.18	0.8	48.9	0.5	1.8	9
0.3	7/0.26	0.8	50.2	0.5	1.8	9
0.5	7/0.32	1.0	32.7	0.5	2.0	12
0.85	11/0.32	1.2	20.8	0.5	2.2	16
1.25	16/0.32	1.5	14.3	0.5	2.5	20
2	26/0.32	1.9	8.81	0.5	2.9	27
3	41/0.32	2.4	5.59	0.6	3.6	37
5	65/0.32	3.0	3.52	0.7	4.4	50

The "f" in the nominal size column indicates a flexible conductor with a finer wire diameter.
The current limit data is for conductor temperature of 80°C (maximum allowable temperature) and an ambient temperature of 40°C

Super Thin Low-Voltage Wires for Automobile—AVSS, (Thin type-2). (A=Low-Voltage Automobile wire, V=Vinyl SS=Super Thin)

Specification Standard: JASO D611-94

Size	Conductor Strands	Conductor Diameter	Conductor Resistance 20°C	Insulation Thickness	Overall Diameter (Standard)	Current Limit
mm ²	No./mm	mm	Ω/km	mm	mm	Amps
0.3	7/0.26	0.8	50.2	0.3	1.4	8
0.5	7/0.32	1.0	32.7	0.3	1.6	11
0.85	19/0.24	1.2	21.7	0.3	1.8	14
1.25	19/0.29	1.5	14.9	0.3	2.1	19
2.00	19/0.37	1.8	9.00	0.4	2.7	26
2(f)	37/0.26	1.8	9.50	0.4	2.7	26

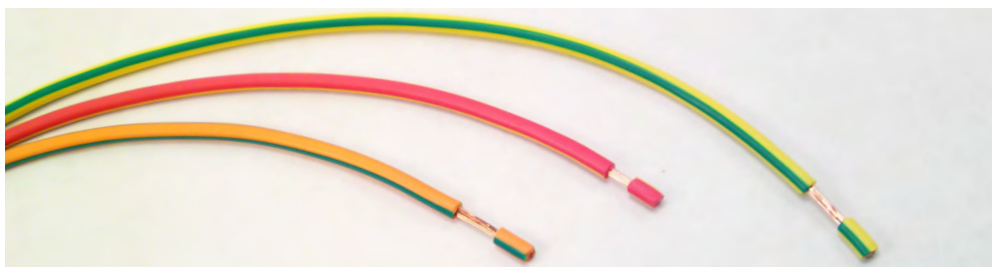
The "f" in the nominal size column indicates a flexible conductor with a finer wire diameter.
The current limit data is for conductor temperature of 80°C (maximum allowable temperature) and an ambient temperature of 40°C

Applications

These wires used low voltage circuit in automobiles such a Vehicles and Motor cycles.

Features:

These wires constructed still thinner than type AVS wires, for light weight and smaller diameter.



About us

Miracle Cables (I) Pvt. Ltd. is 16 years young company with aspirations to grow as a significant player in the cables industry. The company has an array of professionals dedicated to give the exceptional products and services to its customers. Situated in Mumbai, a strategic location of India, Miracle Cables currently caters to several world class organizations in India as well as abroad. Miracle Cables (I) Pvt. Ltd. has following achievements to its credit-

- ARAI(The automotive Research Association of India) test certificate
- ISO 9001-2008
- ISI Certification
- NTH (National Test House) test certificate
- CPRI test Certificate
- UL (Underwriters' Laboratories) Certification
- CVRDE (Combat Vehicles R & D Estt.) approval
- DGQA (Directorate General of Quality Association) approval
- ERTL (Electronics Regional Test Laboratory) certificate
- ERDA (Electrical Research & Development Association) test certificate
- ROHS Test certificate

Apart from Auto Cables, Miracle Cables (I) Pvt. Ltd. also manufactures cables for wide range of applications. These cables include Uninyvin Cable, Power cables, Control & instrumentation cable, Eco-friendly cable, and many more.

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