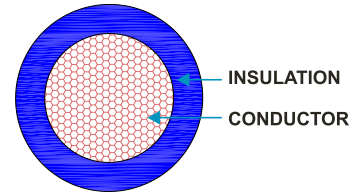
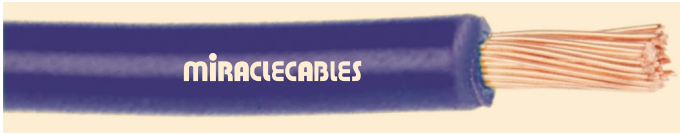




# Automotive Cables

DIN Cables - FLRY-A



1401 - Automotive Cables

### Application

Automotive PVC insulated single-core cable with symmetrical conductor structure (type A) and thin wall is used for automobiles, motorcycles electrical equipment in high temperature condition.

### Properties

- Self-extinguishing and flame retardant
- Ozone resistance
- Good abrasive resistance
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel

### Construction

- Conductor : Conductor construction according to DIN 72551, Part 6, type A and ISO 6722 (concentric construction-unilay)
- Insulation : Plasticized PVC with properties according to DIN 72551 and ISO 6722, Class B, Lead free

### Technical Parameter

- Temperature range : - 40°C to +105°C (3000 Hours)
- Standard compliance : ISO 6722 Class A
- 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>
- Type A : Concentric (Unilay) conductor



### Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Resistance at 20°C Bare/tinned max.	Thickness Wall min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	kg/km
1401B010002	1x0.22	7/0.21	0.7	84.80/86.50	0.20	1.2	3
1401B010003	1x0.35	7/0.26	0.8	52.00/54.50	0.20	1.3	5
1401B010005	1x0.50	19/0.19	1.0	37.10/38.20	0.22	1.6	7
1401B010007	1x0.75	19/0.23	1.2	24.70/25.40	0.24	1.9	9
1401B010010	1x1.00	19/0.26	1.35	18.50/19.10	0.24	2.1	11
1401B010015	1x1.50	19/0.32	1.7	12.70/13.00	0.24	2.4	16
1401B010020	1x2.00	19/0.37	2.0	9.42/9.69	0.24	2.6	23
1401B010025	1x2.50	19/0.41	2.2	7.60/7.80	0.28	3.0	26

Note-1 :

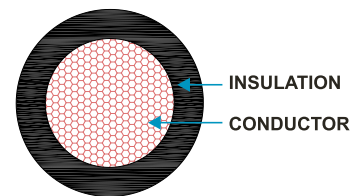
Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.





# Automotive Cables

DIN Cables - FLRY-B



## Application

Automotive PVC insulated single-core cable with symmetrical conductor structure (type B) and thin wall is used for automobiles, motorcycles electrical equipment in high temperature condition.

## Properties

- Self-extinguishing and flame retardant
- Ozone resistance
- Good abrasive resistance
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel

## Construction

- Conductor : Conductor construction according to DIN 72551, Part 6.
- Insulation : Plasticized PVC with properties according to DIN 72551 and ISO 6722, Class B, Lead free

## Technical Parameter

- Temperature range : - 40°C to +105°C (3000 Hours)
- Standard compliance : ISO 6722 Class B
- 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>
- Type B : Flexible conductor



## Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Resistance at 20°C Bare/tinned max.	Thickness Wall min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	kg/km
1402B010003	1x0.35	12/0.21	0.9	52.00/5.50	0.2	1.4	5
1402B010005	1x0.50	16/0.21	1.0	37.10/38.20	0.22	1.6	7
1402B010007	1x0.75	24/0.21	1.2	24.70/25.40	0.24	1.9	9
1402B010010	1x1.00	32/0.21	1.35	18.50/19.10	0.24	2.1	11
1402B010015	1x1.50	30/0.26	1.7	12.70/13.00	0.24	2.4	16
1402B010020	1x2.00	30/0.31	1.9	9.31/9.59	0.24	2.6	22
1402B010025	1x2.50	50/0.26	2.2	7.60/7.80	0.28	3	26
1402B010030	1x3.00	45/0.31	2.4	6.21/6.40	0.28	3.2	33
1402B010040	1x4.00	56/0.31	2.75	4.70/4.80	0.32	3.7	42
1402B010060	1x6.00	84/0.31	3.3	3.10/3.20	0.32	4.3	61
1402B010100	1x10.00	80/0.41	4.5	1.82/1.85	0.48	6	108
1402B010160	1x16.00	126/0.41	6.3	1.16/1.18	0.52	7.9	170
1402B010250	1x25.00	196/0.41	7.8	0.743/0.757	0.52	9.4	265

Note-1 : Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.

Note- 2 : FLRY --C (-40 to +125 °C) / W

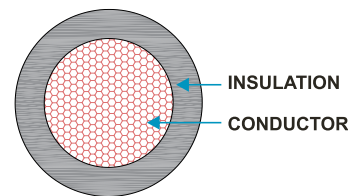


1402 - Automotive Cables



# Automotive Cables

## AV - Low Voltage Cables



### Application

Automotive PVC insulated single-core cable is used for low voltage circuits in automobiles, vehicles and motorcycles. These are standard wall auto cables for ideal use in automotive by harness manufacturers.

### Construction

- Conductor : Soft-annealed electrolytic Copper E-Cu ETP1 according to JIS C 3102.
- Insulation : Plasticized PVC lead free

### Properties

- Self-extinguishing and flame retardant.
- Ozone resistance
- Good abrasive resistance.
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel.

### Technical Parameter

- Temperature range : - 40°C to +80°C (3000 Hours)
- Standard compliance : JIS C 3406
- Test voltage : 1kV



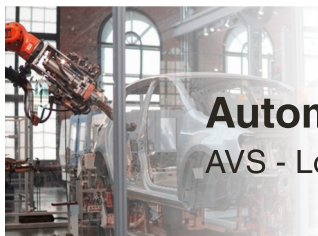
### Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Electrical Resistance at 20°C max.	Insulation Thickness Wall Nom.	Overall Diameter min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	mm	kg/km
1403B010005	1x0.50	7/0.32	1	32.7	0.6	2.2	2.4	10
1403B010008	1x0.85	11/0.32	1.2	20.8	0.6	2.4	2.6	13
1403B010012	1x1.25	16/0.32	1.5	14.3	0.6	2.7	2.9	17
1403B010020	1x2.00	26/0.32	1.9	8.81	0.6	3.1	3.4	26
1403B010030	1x3.00	41/0.32	2.4	5.59	0.7	3.8	4.1	40
1403B010050	1x5.00	65/0.32	3	3.52	0.8	4.6	4.9	62
1403B010080	1x8.00	50/0.45	3.7	2.32	0.9	5.5	5.8	92
1403B010100	1x10.00	63/0.45	4.5	1.84	1	6.5	6.9	120
1403B010150	1x15.00	84/0.45	4.8	1.38	1.1	7	7.4	160
1403B010200	1x20.00	41/0.80	6.1	0.89	1.1	8.2	8.8	226
1403B010300	1x30.00	70/0.80	8	0.52	1.4	10.8	11.5	384
1403B010400	1x40	85/0.80	8.6	0.43	1.4	11.4	12.1	462
1403B010500	1x50	108/0.80	9.8	0.34	1.6	13	13.8	583
1403B010600	1x60	127/0.80	10.4	0.29	1.6	13.6	14.4	678
1403B010850	1x85	169/0.80	12	0.22	2	16	17	924
1403B011000	1x100	217/0.80	13.6	0.17	2	17.6	18.6	1151
1403B010005	1x0.5f	20/0.18	1	36.7	0.6	2.2	2.4	9
1403B010007	1x0.75f	30/0.18	1.2	24.4	0.6	2.4	2.6	12
1403B010012	1x1.25f	50/0.18	1.5	14.7	0.6	2.7	2.9	18
1403B010020	1x2f	37/0.26	1.8	9.5	0.6	3	3.4	25
1403B010030	1x3f	61/0.26	2.4	5.76	0.7	3.8	4.1	40

The "f" in the nominal size column indicates a flexible conductor with a finer wire diameter. Note: Other configurations, sizes, colors and length not specified herein are available upon request.

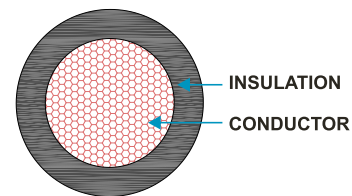
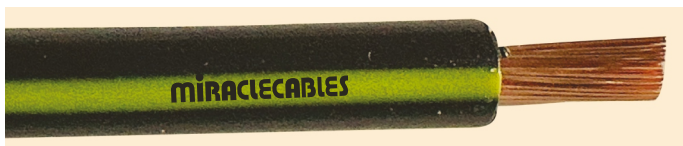
Note-1 :

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.



# Automotive Cables

## AVS - Low Voltage Cables



### Application

Automotive PVC insulated single-core cable is used for low voltage circuits in automobiles, vehicles and motorcycles. These are standard wall auto cables for ideal use in automotive by harness manufacturers.

### Construction

- Conductor : Soft-annealed electrolytic Copper E-Cu ETP1 according to JIS C 3102.
- Insulation : Plasticized PVC lead free

### Properties

- Self-extinguishing and flame retardant
- Ozone resistance
- Good abrasive resistance
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel

### Technical Parameter

- Temperature range : - 40°C to +80°C (3000 Hours)
- Intermittent temperature : 120°C (120h)
- Standard compliance : JIS C 3406 / JASO D 611-94
- Test voltage : 1kV



### Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Electrical Resistance at 20°C max.	Insulation Thickness Wall Nom.	Overall Diameter min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	mm	kg/km
1404B010003	1 x0.3	7/0.26	0.8	50.2	0.5	1.8	1.9	6
1404B010005	1 x0.5	7/0.32	1	32.7	0.6	2.1	2.4	7
1404B010008	1 x0.85	11/0.32	1.2	20.8	0.6	2.3	2.6	10
1404B010012	1 x1.25	16/0.32	1.5	14.3	0.6	2.6	2.9	15
1404B010020	1 x2	26/0.32	1.9	8.81	0.6	3	3.4	22
1404B010030	1 x3	41/0.32	2.4	5.59	0.7	3.5	3.9	42
1404B010050	1 x5	65/0.32	3	3.52	0.8	4.5	4.9	61
1404B010003	1 x0.3f	15/0.18	0.8	48.9	0.5	1.8	1.9	6
1404B010005	1 x0.5f	20/0.18	1	36.7	0.5	2	2.1	8
1404B010007	1 x0.75f	30/0.18	1.2	24.4	0.5	2.2	2.3	11
1404B010012	1 x1.25f	50/0.18	1.5	14.7	0.5	2.5	2.6	17
1404B010020	1 x2f	37/0.26	1.8	9.5	0.5	2.9	3.1	24

**Note-1 :**

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.

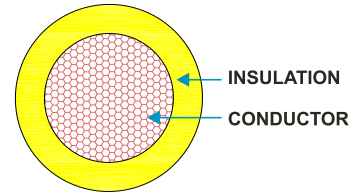


1404 - Automotive Cables



# Automotive Cables

## AVSS - Low Voltage Cables



1405 - Automotive Cables

### Application

Automotive PVC insulated single-core cable is used for low voltage circuits in automobiles, vehicles and motorcycles. These are Super Thin wall auto cables for ideal use in automotive by harness manufacturers

### Properties

- Self-extinguishing and flame retardant
- Ozone resistance
- Good abrasive resistance
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel

### Construction

- Conductor : Soft-annealed electrolytic Copper E-Cu ETP1 according to JIS C 3102
- Insulation : Plasticized PVC lead free

### Technical Parameter

- Temperature range : - 40°C to +80°C (3000 Hours)
- Intermittent temperature : 120°C (120h)
- Standard compliance : JIS C 3406 / JASO D 611-94
- Test voltage : 1kV



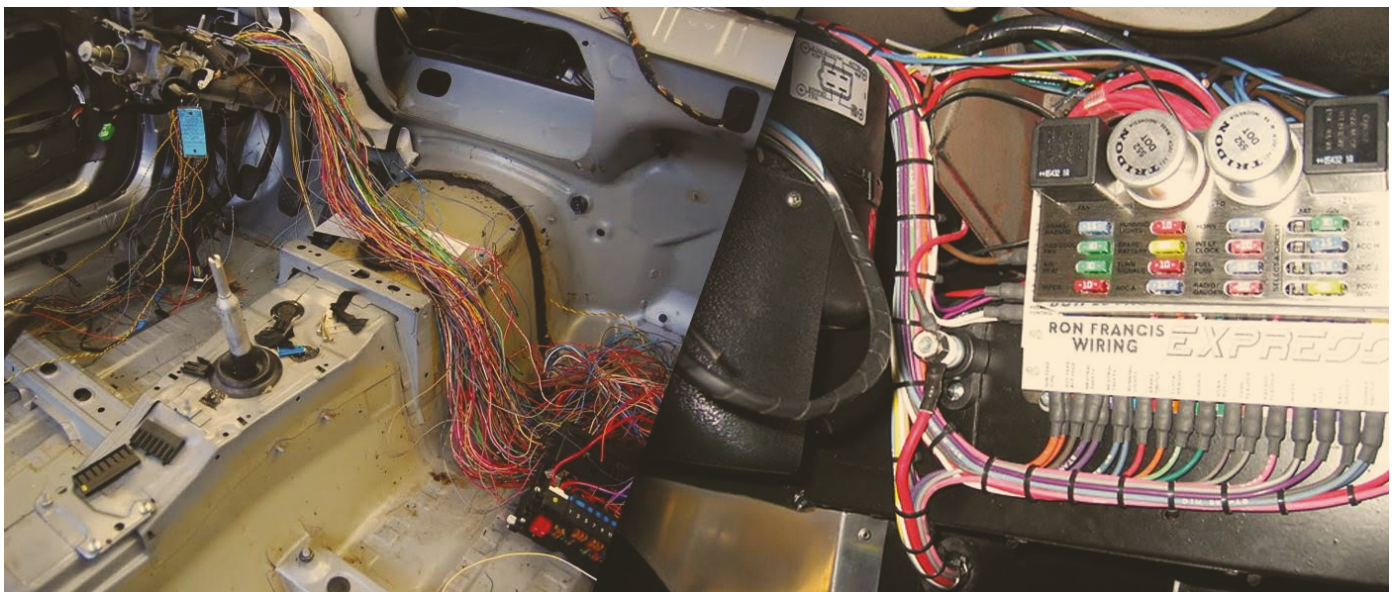
### Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Electrical Resistance at 20°C max.	Insulation Thickness Wall Nom.	Overall Diameter min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	mm	kg/km
1405B010003	1 x 0.30	7/0.26	0.8	50.2	0.3	1.4	1.5	5
1405B010005	1 x 0.50	7/0.32	1	32.7	0.3	1.6	1.7	7
1405B010008	1 x 0.85	19/0.24	1.2	21.7	0.3	1.8	1.9	10
1405B010012	1 x 1.25	19/0.29	1.5	14.9	0.3	2.1	2.2	14
1405B010003	1 x 0.3f	19/0.16	0.8	48.8	0.3	1.4	1.5	5
1405B010005	1 x 0.5f	19/0.19	1	34.6	0.3	1.6	1.7	7
1405B010007	1 x 0.75f	19/0.23	1.2	23.6	0.3	1.8	1.9	10
1405B010012	1 x 1.25f	37/0.21	1.5	14.6	0.3	2.1	2.2	14
1405B010020	1 x 2f	37/0.26	1.8	9.5	0.4	2.6	2.7	22

The "f" in the nominal size column indicates a flexible conductor with a finer wire diameter.

Note-1 :

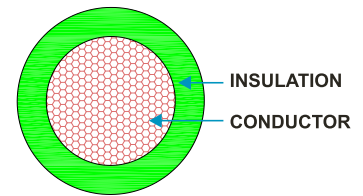
Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.





# Automotive Cables

## FLY Cables



### Application

Automotive PVC insulated single-core unshielded low-tension wire is used for automobiles.

### Construction

- Conductor : Soft-annealed electrolytic Copper E-Cu ETP1 according to DIN 13602
- Insulation : Plasticized PVC lead free

### Properties

- Self-extinguishing and flame retardant
- Ozone resistance
- Good abrasive resistance
- Good fuel /oil resistance
- RoHS compliance
- Highly resistant against acids, lyes, petrol and diesel

### Technical Parameter

- Operating temperature : - 40°C to +80°C (3000 Hours)
- Standard compliance : ISO 6722 Class B
- Test voltage : 1kV



### Dimension

Part code	Nominal Cross Section	No. and Dia. of Wires	Diameter max.	Electrical Resistance at 20°C max.	Insulation Thickness Wall Nom.	Overall Diameter min.	Overall Diameter max.	Approx Weight
	mm <sup>2</sup>	No./mm	mm	mΩ/m	mm	mm	mm	kg/km
1406B010005	1x0.50	16 /0.21	1.0	37.1	0.48	2	2.3	8
1406B010007	1x0.75	24/0.21	1.2	24.7	0.48	2.2	2.5	12
1406B010010	1x1.00	32/0.21	1.35	18.5	0.48	2.4	2.7	15
1406B010015	1x1.50	30/0.26	1.7	12.7	0.48	2.7	3	20
1406B010020	1x2.00	40/0.26	2.0	9.42	0.6	2.9	3.2	26
1406B010025	1x2.50	50/0.26	2.2	7.6	0.7	3.3	3.7	32
1406B010030	1x3.00	60/0.26	2.5	6.0	0.7	3.5	3.9	37
1406B010040	1x4.00	56/0.31	2.75	4.71	0.8	4	4.4	49
1406B010060	1x6.00	84/0.31	3.3	3.14	0.8	4.6	5	68
1406B010100	1x10	80 /0.41	4.5	1.82	0.8	6	6.5	117
1406B010160	1x16	126/0.41	6.3	1.16	0.8	7.5	8.3	193
1406B010250	1x25	196/0.41	7.8	0.74	1.04	9.5	10.4	274
1406B010350	1x35	276/0.41	9.0	0.53	1.04	10.6	11.6	397
1406B010500	1x50	400/0.41	10.5	0.37	1.2	12.9	13.5	547
1406B010700	1x70	555/0.41	12.5	0.26	1.2	14.8	15.5	769
1406B010950	1x95	740/0.41	14.8	0.20	1.28	17	18	990
1406B011200	1x120	960/0.41	16.5	0.15	1.6	18.7	19.7	1250

Note-1 :

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required: 01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Green/Yellow, 07 - White, 08 - Violet, 09 - Brown, 10 - Orange, 11 - Pink, 12 - grey.



1406 - Automotive Cables