

Automotive Wire

FLY – Standard Wall Insulation



Application

Standard wall automotive cables are ideal for use in automotive and marine. The wire's lead free, PVC polymer, offers excellent resistance to petrol, chemicals, and abrasion, and in addition is suitable for both low and high temperature applications. N.B. Flexible conductors with cross sections above 6mm² are also suitable as battery cables.

Specifications

- In accordance with ISO 6722 and meeting LV112, BMW 95007-2, VW 60306
- **Conductors:** Flexible Class 5 copper conductors to BS EN 60228 with wires conforming to EN 13602 for CU-ETP-1
- **Insulation:** PVC insulation Class B to ISO 6722 (lead free)
- Flame retardant to BS EN 60332-1-2
- **Temperature Rating:** -40°C to +105°C (3000 hours)
- **Voltage Rating:** 60 V d.c, 25 V a.c. (suitable for 12 Volt & 24 Volt systems)

Anixter Number	Nominal Conductor Area	Nominal Conductor Stranding	Insulation Thickness	Maximum O/D	Approximate Weight	Maximum d.c. Conductor Resistance @ 20°C
	mm ²	#/mm	mm	mm	kg/km	ohm/km
AUTO-005MM-###	0.5	16/0.2	0.6	2.3	9	37.1
AUTO-075 MM-###	0.75	24/0.2	0.6	2.5	12	24.7
AUTO-010MM-###	1.0	32/0.2	0.6	2.7	15	18.5
AUTO-015MM-###	1.5	30/0.25	0.6	3.0	19	12.7
AUTO-020MM-###	2.0	28/0.3	0.6	3.3	26	9.42
AUTO-025MM-###	2.5	50/0.25	0.7	3.6	32	7.60
AUTO-030MM-###	3.0	45/0.3	0.7	3.9	38	6.15

Technical current ratings see page 2.43.

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FLY – Standard Wall Insulation (continued)

Anixter Number	Nominal Conductor Area	Nominal Conductor Stranding	Insulation Thickness	Maximum O/D	Approximate Weight	Maximum d.c. Conductor Resistance @ 20°C
	mm ²	#/mm	mm	mm	kg/km	ohm/km
AUTO-045MM-##	4.0	56/0.3	0.8	3.4	49	4.71
AUTO-060MM-##	6.0	84/0.3	0.8	5.0	69	3.14
AUTO-100MM-##	10	180/0.4	1.0	6.5	113	1.82
AUTO-160MM-##	16	126/0.4	1.0	8.3	181	1.16
AUTO-250MM-##	25	196/0.4	1.3	10.2	288	0.743
AUTO-350MM-##	35	276/0.4	1.3	10.7	361	0.527
AUTO-500MM-##	50	396/0.4	1.5	13.0	521	0.368
AUTO-700MM-##	70	560/0.4	1.5	15.0	716	0.259
AUTO-950MM-##	95	740/0.4	1.6	16.2	918	0.196
AUTO-120MM-##	120	960/0.4	1.6	19.7	1220	0.153

= colour:

01 = White 02 = Black 03 = Red 04 = Green 05 = Yellow 06 = Blue
 07 = Brown 08 = Orange 09 = Grey 10 = Violet 12 = Pink 60 = Green/Yellow

Other colours available upon request.

Technical current ratings see page 2.43.

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Current Ratings for Automotive Cables

Ratings for other types of automotive wires should be based on the following table:

Nominal Conductor Size mm ²	Ambient Air Temperature °C	Approximate Current Rating (90°C Conductor Temp)	Approximate Current Rating (105°C Conductor Temp)
		A	A
0.22	40	8	9.1
0.35	40	10	11.6
0.5	40	13	14.7
0.75	40	16.5	18.8
1.0	40	19.5	22.3
1.5	40	24.5	28.1
2.0	40	30	35
2.5	40	34	38.8
3.0	40	35	40
4.0	40	42	48
4.5	40	44	51
6.0	40	51	58
8.5	40	63	72
10	40	68	78
16	40	88	100
20	40	102	116
25	40	114	130
35	40	136	155
40	40	149	170
50	40	158	180
70	40	184	210
95	40	202	230
120	40	237	270

N.B. Ratings are for guidance only, and assume single cable isolated in free air. If wires are to be grouped and touching, the following rating factors should be applied:

No. cables in group	2	3	4	5	6	7	8
Rating factor	0.80	0.70	0.65	0.60	0.56	0.53	0.50