

# FLR2X & FL2X Automotive Lead Wire

Thin Wall or Thick Wall

60 VDC and 25 VAC

125°C , -40°C



Image not to scale. See Table 1 for Dimensions

## CONSTRUCTION:

**Conductors:** Bare or Tinned Copper

Type A Symmetrical, Type B Asymmetrical, or Type C Flexible

Thin Wall: 0.22 mm<sup>2</sup> through 95 mm<sup>2</sup>

Thick Wall: 0.35 mm<sup>2</sup> through 120.0 mm<sup>2</sup>

**Insulation:** Crosslinked Polyethylene (XLPE) or Irradiated Crosslinked Polyethylene (IRXLPE)

## APPLICATIONS AND FEATURES:

Southwire FLR2X and FL2X Automotive Lead Wires are 60 VDC and 25 VAC cables that can be used in harnesses made for all types of land vehicles. 600 V rated designs may be available on special order. Contact sales.

This construction meets 3000 hour long-term aging. Resistant to flame, ozone, hot water, abrasion, automotive fluids, temperature, and humidity cycling.

## SPECIFICATIONS:

- FORD: ES-AU5T-1A348-AA Class 3 XLPE
- GM: GMW 15626 Class C IRXLPE
- FIAT/CHRYSLER: MS.90034 Class C XLPE
- INTERNATIONAL STANDARDS: ISO14572, ISO 6722-1 Class C XLPE
- RoHS Compliant



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**TABLE 1 - MEASUREMENTS**

Cond. Size	CONDUCTOR CONSTRUCTION (mm)			MAXIMUM CONDUCTOR	THIN WALL				THICK WALL			
	TYPE A	TYPE B	TYPE C	OD	Insulation Thickness		Outside Diameter		Insulation Thickness		Outside Diameter	
	Symmetrical	Asymmetrical	Flexible	mm	nom (mm)	max (mm)	nom (mm)	max (mm)	nom (mm)	max (mm)	nom (mm)	max (mm)
0.35	7/0.27	12/0.21	19/0.16	0.90	0.20	0.25	1.20	1.40	---	---	---	---
0.5	19/0.19	16/0.21	38/0.14	1.10	0.22	0.28	1.40	1.60	0.48	0.60	2.00	2.30
0.75	19/0.24	24/0.21	38/0.16	1.30	0.24	0.30	1.70	1.90	0.48	0.60	2.20	2.50
1.00	19/0.27	32/0.21	54/0.16	1.50	0.24	0.30	1.90	2.10	0.48	0.60	2.40	2.70
1.50	19/.033	30/0.26	79/0.16	1.80	0.24	0.30	2.20	2.40	0.48	0.60	2.70	3.00
2.00	19/0.38	28/0.31	105/0.16	2.00	0.28	0.35	2.50	2.80	0.48	0.60	3.00	3.30
2.50	37/0.29	50/0.26	140/0.16	2.20	0.28	0.35	2.70	3.00	0.56	0.70	3.30	3.60
3.00	37/0.34	44/0.31	160/0.16	2.40	0.32	0.40	3.10	3.40	0.56	0.70	3.80	4.10
4.00	37/0.38	56/0.31	224/0.16	2.80	0.32	0.40	3.40	3.70	0.64	0.80	4.00	4.40
5.00	37/0.43	65/0.33	250/0.16	3.10	0.32	0.40	3.90	4.20	0.64	0.80	4.50	4.90
6.00	37/0.45	84/0.31	320/0.16	3.40	0.32	0.40	4.00	4.30	0.64	0.80	4.60	5.00
8.00	98/0.33	62/0.41	240/.021	4.30	0.32	0.40	4.60	5.00	0.64	0.80	5.00	5.90
10.00	63/0.46	80/0.41	320/0.21	4.50	0.48	0.60	5.30	6.00	0.80	1.00	5.90	6.50
12.00	154/0.33	96/0.41	380/0.21	5.40	0.48	0.60	5.80	6.50	0.80	1.00	6.60	7.40
16.00	105/0.46	126/0.41	512/0.21	6.30	0.52	0.65	6.40	7.20	0.80	1.00	7.70	8.30
20.00	247/0.33	152/0.41	610/0.21	6.90	0.52	0.65	7.00	7.80	0.88	1.10	8.10	9.10
25.00	154/0.46	196/0.41	790/0.21	7.60	0.52	0.65	7.90	8.70	1.04	1.30	9.40	10.40
30.00	361/0.33	224/0.41	900/0.21	8.30	0.64	0.80	8.70	9.60	1.04	1.30	9.70	10.90
35.00	551/0.30	276/0.41	1070/0.21	9.00	0.64	0.80	9.40	10.40	1.04	1.30	9.60	11.60
40.00	494/0.33	308/0.41	1200/0.21	9.60	---	---	---	---	1.12	1.40	11.20	12.40
50.00	798/0.33	396/0.41	1600/0.21	10.50	---	---	---	---	1.20	1.50	11.50	13.50
60.00	741/0.33	296/0.41	1200/0.26	11.60	---	---	---	---	1.20	1.50	13.40	14.60
70.00	1140/0.30	360/0.51	1427/0.26	12.50	---	---	---	---	1.20	1.50	13.50	15.50
95.00	836/0.40	475/0.51	1936/0.26	14.80	---	---	---	---	1.28	1.60	16.00	18.00
120.00	1064/.040	608/.051	2450/0.26	16.50	---	---	---	---	1.28	1.60	17.70	19.70

