

# RIGID Fill Chart

| TYPE of WIRE         | Cond. Size (AWG/kcmil) | Trade Sizes in Inches |      |    |        |        |    |        |     |        |     |     |     |
|----------------------|------------------------|-----------------------|------|----|--------|--------|----|--------|-----|--------|-----|-----|-----|
|                      |                        | 1/2"                  | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3"  | 3-1/2" | 4"  | 5"  | 6"  |
| RHH, RHW, RHW-2      | 14                     | 4                     | 7    | 12 | 21     | 28     | 46 | 66     | 102 | 136    | 176 | 276 | 398 |
|                      | 12                     | 3                     | 6    | 10 | 17     | 23     | 38 | 55     | 85  | 113    | 146 | 229 | 330 |
|                      | 10                     | 3                     | 5    | 8  | 14     | 19     | 31 | 44     | 68  | 91     | 118 | 185 | 267 |
|                      | 8                      | 1                     | 2    | 4  | 7      | 10     | 16 | 23     | 36  | 48     | 61  | 97  | 139 |
|                      | 6                      | 1                     | 1    | 3  | 6      | 8      | 13 | 18     | 29  | 38     | 49  | 77  | 112 |
|                      | 4                      | 1                     | 1    | 2  | 4      | 6      | 10 | 14     | 22  | 30     | 38  | 60  | 87  |
|                      | 3                      | 1                     | 1    | 2  | 4      | 5      | 9  | 12     | 19  | 26     | 34  | 53  | 76  |
|                      | 2                      | 1                     | 1    | 1  | 3      | 4      | 7  | 11     | 17  | 23     | 29  | 46  | 66  |
|                      | 1                      | 0                     | 1    | 1  | 1      | 3      | 5  | 7      | 11  | 15     | 19  | 30  | 44  |
|                      | 1/0                    | 0                     | 1    | 1  | 1      | 2      | 4  | 6      | 10  | 13     | 17  | 26  | 38  |
|                      | 2/0                    | 0                     | 1    | 1  | 1      | 2      | 4  | 5      | 8   | 11     | 14  | 23  | 33  |
|                      | 3/0                    | 0                     | 0    | 1  | 1      | 1      | 3  | 4      | 7   | 10     | 12  | 20  | 28  |
|                      | 4/0                    | 0                     | 0    | 1  | 1      | 1      | 3  | 4      | 6   | 8      | 11  | 17  | 24  |
|                      | 250                    | 0                     | 0    | 0  | 1      | 1      | 1  | 3      | 4   | 6      | 8   | 13  | 18  |
|                      | 300                    | 0                     | 0    | 0  | 1      | 1      | 1  | 2      | 4   | 5      | 7   | 11  | 16  |
|                      | 350                    | 0                     | 0    | 0  | 1      | 1      | 1  | 2      | 4   | 5      | 6   | 10  | 15  |
|                      | 400                    | 0                     | 0    | 0  | 1      | 1      | 1  | 1      | 3   | 4      | 6   | 9   | 13  |
|                      | 500                    | 0                     | 0    | 0  | 1      | 1      | 1  | 1      | 3   | 4      | 5   | 8   | 11  |
|                      | 600                    | 0                     | 0    | 0  | 0      | 1      | 1  | 1      | 2   | 3      | 4   | 6   | 9   |
|                      | 700                    | 0                     | 0    | 0  | 0      | 1      | 1  | 1      | 1   | 3      | 3   | 6   | 8   |
| 750                  | 0                      | 0                     | 0    | 0  | 0      | 1      | 1  | 1      | 3   | 3      | 5   | 8   |     |
| TW, THHW, THW, THW-2 | 14                     | 9                     | 15   | 25 | 44     | 59     | 98 | 140    | 215 | 288    | 370 | 581 | 839 |
|                      | 12                     | 7                     | 12   | 19 | 33     | 45     | 75 | 107    | 165 | 221    | 284 | 446 | 644 |
|                      | 10                     | 5                     | 9    | 14 | 25     | 34     | 56 | 80     | 123 | 164    | 212 | 332 | 480 |
|                      | 8                      | 3                     | 5    | 8  | 14     | 19     | 31 | 44     | 68  | 91     | 118 | 185 | 267 |
|                      | 6                      | 1                     | 3    | 5  | 8      | 11     | 18 | 27     | 41  | 55     | 71  | 111 | 160 |
|                      | 4                      | 1                     | 1    | 3  | 6      | 8      | 14 | 20     | 31  | 41     | 53  | 83  | 120 |
|                      | 3                      | 1                     | 1    | 3  | 5      | 7      | 12 | 17     | 26  | 35     | 45  | 71  | 103 |
|                      | 2                      | 1                     | 1    | 2  | 4      | 6      | 10 | 14     | 22  | 30     | 38  | 60  | 87  |
|                      | 1                      | 1                     | 1    | 1  | 3      | 4      | 7  | 10     | 15  | 21     | 27  | 42  | 61  |
|                      | 1/0                    | 0                     | 1    | 1  | 2      | 3      | 6  | 8      | 13  | 18     | 23  | 36  | 52  |
|                      | 2/0                    | 0                     | 1    | 1  | 2      | 3      | 5  | 7      | 11  | 15     | 19  | 31  | 44  |
|                      | 3/0                    | 0                     | 1    | 1  | 1      | 2      | 4  | 6      | 9   | 13     | 16  | 26  | 37  |
|                      | 4/0                    | 0                     | 0    | 1  | 1      | 1      | 3  | 5      | 8   | 10     | 14  | 21  | 31  |
|                      | 250                    | 0                     | 0    | 1  | 1      | 1      | 3  | 4      | 6   | 8      | 11  | 17  | 25  |
|                      | 300                    | 0                     | 0    | 1  | 1      | 1      | 2  | 3      | 5   | 7      | 9   | 15  | 22  |
|                      | 350                    | 0                     | 0    | 0  | 1      | 1      | 1  | 3      | 5   | 6      | 8   | 13  | 19  |
|                      | 400                    | 0                     | 0    | 0  | 1      | 1      | 1  | 3      | 4   | 6      | 7   | 12  | 17  |
|                      | 500                    | 0                     | 0    | 0  | 1      | 1      | 1  | 2      | 3   | 5      | 6   | 10  | 14  |
|                      | 600                    | 0                     | 0    | 0  | 1      | 1      | 1  | 1      | 3   | 4      | 5   | 8   | 12  |
|                      | 700                    | 0                     | 0    | 0  | 0      | 1      | 1  | 1      | 2   | 3      | 4   | 7   | 10  |
| 750                  | 0                      | 0                     | 0    | 0  | 1      | 1      | 1  | 2      | 3   | 4      | 7   | 10  |     |

Automated Controls and Electrical Supply, LLC

“ELECTRICAL ACE” 

# RIGID Fill Chart

| TYPE of WIRE       | Cond. Size (AWG/kcmil) | Trade Sizes in Inches |      |    |        |        |     |        |     |        |     |     |      |
|--------------------|------------------------|-----------------------|------|----|--------|--------|-----|--------|-----|--------|-----|-----|------|
|                    |                        | 1/2"                  | 3/4" | 1" | 1-1/4" | 1-1/2" | 2"  | 2-1/2" | 3"  | 3-1/2" | 4"  | 5"  | 6"   |
| THHN, THWN, THWN-2 | 14                     | 13                    | 22   | 36 | 63     | 85     | 140 | 200    | 309 | 412    | 531 | 833 | 1202 |
|                    | 12                     | 9                     | 16   | 26 | 46     | 62     | 102 | 146    | 22  | 301    | 387 | 608 | 877  |
|                    | 10                     | 6                     | 10   | 17 | 29     | 39     | 64  | 92     | 142 | 189    | 244 | 383 | 552  |
|                    | 8                      | 3                     | 6    | 9  | 16     | 22     | 37  | 53     | 82  | 109    | 140 | 221 | 318  |
|                    | 6                      | 2                     | 4    | 7  | 12     | 16     | 27  | 38     | 59  | 79     | 101 | 159 | 230  |
|                    | 4                      | 1                     | 2    | 4  | 7      | 10     | 16  | 23     | 36  | 48     | 62  | 98  | 141  |
|                    | 3                      | 1                     | 1    | 3  | 6      | 8      | 14  | 20     | 31  | 41     | 53  | 83  | 120  |
|                    | 2                      | 1                     | 1    | 3  | 5      | 7      | 11  | 17     | 26  | 34     | 44  | 70  | 100  |
|                    | 1                      | 1                     | 1    | 1  | 4      | 5      | 8   | 12     | 19  | 25     | 33  | 51  | 74   |
|                    | 1/0                    | 1                     | 1    | 1  | 3      | 4      | 7   | 10     | 16  | 21     | 27  | 43  | 63   |
|                    | 2/0                    | 0                     | 1    | 1  | 2      | 3      | 6   | 8      | 13  | 18     | 23  | 36  | 52   |
|                    | 3/0                    | 0                     | 1    | 1  | 1      | 3      | 5   | 7      | 11  | 15     | 19  | 30  | 43   |
|                    | 4/0                    | 0                     | 1    | 1  | 1      | 2      | 4   | 6      | 9   | 12     | 16  | 25  | 36   |
|                    | 250                    | 0                     | 0    | 1  | 1      | 1      | 3   | 5      | 7   | 10     | 13  | 20  | 29   |
|                    | 300                    | 0                     | 0    | 1  | 1      | 1      | 3   | 4      | 6   | 8      | 11  | 17  | 25   |
|                    | 350                    | 0                     | 0    | 1  | 1      | 1      | 2   | 3      | 5   | 7      | 10  | 15  | 22   |
|                    | 400                    | 0                     | 0    | 1  | 1      | 1      | 2   | 3      | 5   | 7      | 8   | 13  | 20   |
|                    | 500                    | 0                     | 0    | 0  | 1      | 1      | 1   | 2      | 4   | 5      | 7   | 11  | 16   |
|                    | 600                    | 0                     | 0    | 0  | 1      | 1      | 1   | 1      | 3   | 4      | 6   | 9   | 13   |
| 700                | 0                      | 0                     | 0    | 1  | 1      | 1      | 1   | 3      | 4   | 5      | 8   | 11  |      |
| 750                | 0                      | 0                     | 0    | 0  | 1      | 1      | 1   | 3      | 4   | 5      | 7   | 11  |      |
| XHH, XHHW, XHHW-2  | 14                     | 9                     | 15   | 25 | 44     | 59     | 98  | 140    | 215 | 288    | 370 | 581 | 839  |
|                    | 12                     | 7                     | 12   | 19 | 33     | 45     | 75  | 107    | 165 | 221    | 284 | 446 | 644  |
|                    | 10                     | 5                     | 9    | 14 | 25     | 34     | 56  | 80     | 123 | 164    | 212 | 332 | 480  |
|                    | 8                      | 3                     | 5    | 8  | 14     | 19     | 31  | 44     | 68  | 91     | 118 | 185 | 267  |
|                    | 6                      | 1                     | 3    | 6  | 10     | 14     | 23  | 33     | 51  | 68     | 87  | 137 | 197  |
|                    | 4                      | 1                     | 2    | 4  | 7      | 10     | 16  | 24     | 37  | 49     | 63  | 99  | 143  |
|                    | 3                      | 1                     | 1    | 3  | 6      | 8      | 14  | 20     | 31  | 41     | 53  | 84  | 121  |
|                    | 2                      | 1                     | 1    | 3  | 5      | 7      | 12  | 17     | 26  | 35     | 45  | 70  | 101  |
|                    | 1                      | 1                     | 1    | 1  | 4      | 5      | 9   | 12     | 19  | 26     | 33  | 52  | 76   |
|                    | 1/0                    | 1                     | 1    | 1  | 3      | 4      | 7   | 10     | 16  | 22     | 28  | 44  | 64   |
|                    | 2/0                    | 0                     | 1    | 1  | 2      | 3      | 6   | 9      | 13  | 18     | 23  | 37  | 53   |
|                    | 3/0                    | 0                     | 1    | 1  | 1      | 3      | 5   | 7      | 11  | 15     | 19  | 30  | 44   |
|                    | 4/0                    | 0                     | 1    | 1  | 1      | 2      | 4   | 6      | 9   | 12     | 16  | 25  | 36   |
|                    | 250                    | 0                     | 0    | 1  | 1      | 1      | 3   | 5      | 7   | 10     | 13  | 20  | 30   |
|                    | 300                    | 0                     | 0    | 1  | 1      | 1      | 3   | 4      | 6   | 9      | 11  | 18  | 25   |
|                    | 350                    | 0                     | 0    | 1  | 1      | 1      | 2   | 3      | 6   | 7      | 10  | 15  | 22   |
|                    | 400                    | 0                     | 0    | 1  | 1      | 1      | 2   | 3      | 5   | 7      | 9   | 14  | 20   |
|                    | 500                    | 0                     | 0    | 0  | 1      | 1      | 1   | 2      | 4   | 5      | 7   | 11  | 16   |
|                    | 600                    | 0                     | 0    | 0  | 1      | 1      | 1   | 1      | 3   | 4      | 6   | 9   | 13   |
| 700                | 0                      | 0                     | 0    | 1  | 1      | 1      | 1   | 3      | 4   | 5      | 8   | 11  |      |
| 750                | 0                      | 0                     | 0    | 0  | 1      | 1      | 1   | 3      | 4   | 5      | 7   | 11  |      |

Automated Controls and Electrical Supply, LLC  
 “ELECTRICAL ACES”