

# Royal® EXCELENE® NON-UL WELDING CABLE

600 Volt 105°C Flexible Cord. Heat, Abrasion, Tear Resistant, Moisture and Oil Resistant Flexible EPDM Jacket.

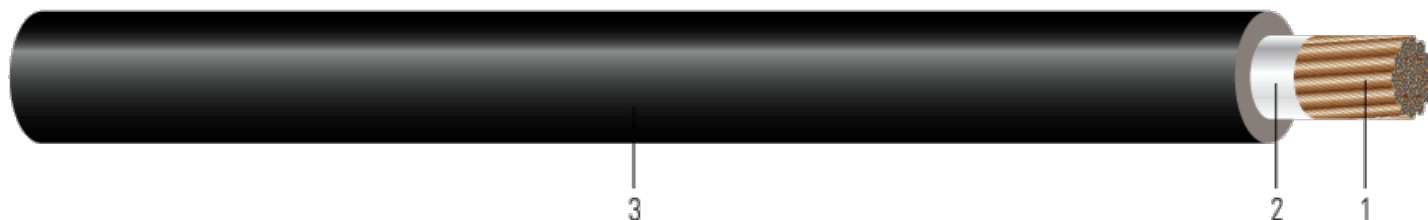


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Annealed rope-stranded Class M, bare copper conductor as per ASTM B-3. 34 AWG rope lay strand per ASTM B-172.
2. **Separator:** Paper separator for ease of stripability
3. **Insulation:** EPDM, Black (Other colors available upon request)

## APPLICATIONS AND FEATURES:

Southwire Excelene Welding cable, Extra Flexible, rated for -50°C to 105°C temperatures. This cable used for secondary voltage resistance welding cable leads, National electrical code Article 630 electric welders and for temporary power industrial applications.

## SPECIFICATIONS:

- RoHS Complaint , Lead-Free, Silicone-Free

## SAMPLE PRINT LEGEND:

SOUTHWIRE® ROYAL® EXCELENE® XXX KCMIL (XXXmm<sup>2</sup>) WELDING CABLE 600V -50C TO +105C MADE IN USA--  
Sequential Footage Marking--

## PACKAGING:

Standard lengths: 250', 500' and 1,000' reels. Other lengths available upon request.



**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Insul. Thickness | Approx. OD | Approx. Weight | Ampacity * |
|--------------|------------|--------------|---------------|------------------|------------|----------------|------------|
|              | AWG/Kcmil  | Count        | # x AWG       | mil              | inch       | lb/1000ft      | Amp        |
| 10410        | 8          | 1            | 168           | 70               | 0.285      | 86             | 80         |
| 10411        | 6          | 1            | 259           | 65               | 0.305      | 120            | 105        |
| 10412        | 4          | 1            | 385           | 60               | 0.340      | 167            | 140        |
| 10413        | 2          | 1            | 651           | 70               | 0.420      | 259            | 190        |
| 10414        | 1          | 1            | 798           | 84               | 0.498      | 331            | 220        |
| 10415        | 1/0        | 1            | 1026          | 85               | 0.525      | 410            | 260        |
| 10416        | 2/0        | 1            | 1254          | 84               | 0.570      | 467            | 300        |
| 10417        | 3/0        | 1            | 1615          | 93               | 0.635      | 620            | 350        |
| 10418        | 4/0        | 1            | 2052          | 83               | 0.695      | 773            | 405        |
| F25001       | 250        | 1            | 2451          | 148              | 0.875      | 1014           | 455        |
| F35003       | 350        | 1            | 3458          | 137              | 0.975      | 1308           | 570        |
| F50001       | 500        | 1            | 4921          | 160              | 1.150      | 1876           | 700        |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\* Ampacities are based on TABLE 400.5(A) of the 2017 National Electrical Code and CEC Table 12.

**Table 2 – Weights and Measurements (Metric)**

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Insul. Thickness | Approx. OD | Approx. Weight | Ampacity * |
|--------------|------------|--------------|---------------|------------------|------------|----------------|------------|
|              | AWG/Kcmil  | Count        | # x AWG       | mm               | mm         | kg/km          | Amp        |
| 10410        | 8          | 1            | 168           | 1.78             | 7.24       | 128            | 80         |
| 10411        | 6          | 1            | 259           | 1.65             | 7.75       | 179            | 105        |
| 10412        | 4          | 1            | 385           | 1.52             | 8.64       | 249            | 140        |
| 10413        | 2          | 1            | 651           | 1.78             | 10.67      | 385            | 190        |
| 10414        | 1          | 1            | 798           | 2.13             | 12.65      | 493            | 220        |
| 10415        | 1/0        | 1            | 1026          | 2.16             | 13.33      | 610            | 260        |
| 10416        | 2/0        | 1            | 1254          | 2.13             | 14.48      | 695            | 300        |
| 10417        | 3/0        | 1            | 1615          | 2.36             | 16.13      | 923            | 350        |
| 10418        | 4/0        | 1            | 2052          | 2.11             | 17.65      | 1150           | 405        |
| F25001       | 250        | 1            | 2451          | 3.76             | 22.22      | 1509           | 455        |
| F35003       | 350        | 1            | 3458          | 3.48             | 24.76      | 1947           | 570        |
| F50001       | 500        | 1            | 4921          | 4.06             | 29.21      | 2792           | 700        |

**Colors and Stock Code**

| Size     | GREEN   |
|----------|---------|
| #6 (259) | 1041105 |

