

| REVISIONS |                        |          |      |
|-----------|------------------------|----------|------|
| LTR       | DESCRIPTION            | DATE     | APVD |
| A         | RU7206 – Miscellaneous | 03-07-14 | JMD  |

Statement A, Unlimited

1.0 Scope: This drawing details the requirements for insulated solid conductor wire at various sizes.

- The part number is the seven (7) digit drawing number plus the applicable dash number as specified in Table I.
- Paragraph(s), table(s) and/or figure(s) followed by "■" indicate a change by the latest revision.
- All Sheets are the Same Revision Status.

Authorized Vendors, Vendor Part Numbers, CAL Status, and CAGE or FSCM are as defined in the Rockwell Collins, Inc. database(s).

|   |  |   |                       |                           |                     |
|---|--|---|-----------------------|---------------------------|---------------------|
| UM Feet (FT)  |  | VENDOR ITEM DRAWING   |                       |                           |                     |
| CONTRACT NO   |  | Rockwell Collins, Inc.<br>400 Collins Rd NE<br>Cedar Rapids, IA 52498 |                       |                           |                     |
| PREP CA Schulz<br>02-07-10                                      |  | Wire, Insulated   |                       |                           |                     |
| CHK JM Dolan<br>02-07-10  |  |   |                       |                           |                     |
| ENGR BL James<br>APVD 02-07-10                                  |  | SIZE<br><b>A</b>  | CAGEC<br><b>13499</b> | DWG NO<br><b>421-0784</b> | REV<br>LTR <b>A</b> |
| DOCUMENT GENERATED<br>USING INTERLEAF<br>DO NOT REVISE MANUALLY |  | SCALE NONE  |                       | SHEET 1 OF 5              |                     |

2.0 Applicable Documents: The following documents of the issue in effect on the date of invitation for bids form a part of this drawing to the extent specified herein.

Military Specification

MIL-W-16878/6 Wire, Electrical, Polytetrafluoroethylene (PTFE)  
Insulated, 200 Deg. C, 250 Volts, Extruded Insulation

3.0 Requirements:

3.1 Electrical: As specified in Table II herein.

3.2 Mechanical/Environmental: As specified in Table III herein.

4.0 Quality Assurance Provisions:

4.1 Qualification Requirements: Qualification shall consist of the necessary tests and inspections required to verify conformance to section 3.0 herein.

4.2 Quality Conformance Inspection: The suppliers shall be responsible for those in-process controls and inspections necessary to supply a product consistently conforming to the requirements of this drawing.

The procuring activity reserves the right to inspect for any of the requirements of this drawing to determine the acceptability of a lot and to reject nonconforming parts or lots containing nonconforming parts, on the basis of the test results so obtained.

4.3 Design Change Approval: Any changes in form, fit, function, materials, or performance that affect the part or materials defined by this drawing, must be approved by the cognizant procuring activity prior to the incorporation of the proposed changes.

5.0 Preparation For Delivery:

5.1 The parts shall be packaged in a manner that will afford adequate protection against contamination, corrosion, deterioration and physical damage during shipment and storage. Parts shall be packaged so they will be easily accessible without damaging the parts.

6.0 Notes: This section is not applicable to this drawing.

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**TABLE I**

Rockwell Collins Dash Number(s), Size, Conductor Outside Diameter,  
Insulation Outside Diameter and Color

| <b>Dash No</b> | <b>Size (AWG)</b> | <b>Conductor Outside Diameter (Inch, Nominal)</b> | <b>Insulation Outside Diameter (Inch, Min/Max)</b> | <b>Color</b> |
|----------------|-------------------|---|--|--------------|
| 010            | 38                | .004  | .012/.018  | Black        |
| 020            | 38                | .004  | .012/.018  | Brown        |
| 030            | 38                | .004  | .012/.018  | Red          |
| 040            | 38                | .004  | .012/.018  | Orange       |
| 050            | 38                | .004  | .012/.018  | Yellow       |
| 060            | 38                | .004  | .012/.018  | Green        |
| 070            | 38                | .004  | .012/.018  | Blue         |
| 080            | 38                | .004  | .012/.018  | Violet       |
| 090            | 38                | .004  | .012/.018  | Gray         |
| 100            | 38                | .004  | .012/.018  | White        |
| 110            | 34                | .006  | .014/.020  | Black        |
| 120            | 34                | .006  | .014/.020  | Brown        |
| 130            | 34                | .006  | .014/.020  | Red          |
| 140            | 34                | .006  | .014/.020  | Orange       |
| 150            | 34                | .006  | .014/.020  | Yellow       |
| 160            | 34                | .006  | .014/.020  | Green        |
| 170            | 34                | .006  | .014/.020  | Blue         |
| 180            | 34                | .006  | .014/.020  | Violet       |
| 190            | 34                | .006  | .014/.020  | Gray         |
| 200            | 34                | .006  | .014/.020  | White        |

|                  |                      |                           |                     |
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**TABLE II**

Electrical Specifications

Unless Otherwise Indicated, All Electrical Measurements Are Taken At 25°C

| Description                     | Requirement  |
|---------------------------------|--|
| Voltage Rating                  | 250 V  |
| DC Resistance at 20°C (Maximum) | 38 AWG: 684 ohms/1000 feet<br>34 AWG: 270 ohms/1000 feet |

|                  |                      |                           |                     |
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**TABLE III**

Mechanical/Environmental Specifications

| Description       | Requirements  |
|-------------------|---|
| Conductor         | Solid Conductor, Copper, Silver Plated in accordance with (IAW) MIL-W-16878/6   |
| Insulation        | Extruded Polytetrafluoroethylene (PTFE) IAW MIL-W-16878/6   |
| Insulation Color  | See Table I herein  |
| Dimensions        | See Table I herein  |
| Temperature Range | -55°C to +200°C   |
| Marking           | As a minimum, marking shall include the manufacturer's name or cage code, and the manufacturers part number. Where unit size precludes marking, markings may be on the unit or the smallest unit container. |

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