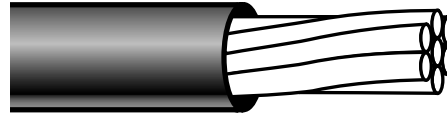


# MIL-DTL-16878/2



Thermoplastic  
Insulation

Tinned Copper  
Stranded

For internal wiring of meters, panels and electronic equipment. Formerly "Type C."

## Electronic Hookup Wire

- Vinyl Primary Insulation
- Nominal .015" Wall  
(No Outer Covering)
- -54°C to +105°C
- 1000 Volts. R.M.S. (working)

Meets UL Styles 1007, 1569 and CSA TR-64 except where noted.

|                                   |   |
|-----------------------------------|---|
| Military Voltage Rating           | 1000 volts.   |
| Sine-wave Spark-Test Voltage      | 5000 VAC.   |
| Impulse Spark Test Voltage        | 10000 V pulse-peak, or 7100 V @3 kHz                  |
| Insulation Breakdown Voltage      | > 7000 volts, peak.                                   |
| IR: Insulation Resistance, wet    | > 2000 megohm/100 meter, metal to water bath at +20°C |
| Nominal Dielectric Constant value | 4.  |
| Flame Properties                  | Self extinguishing. Meets UL VW-1                     |
| Cold Bending for gauges 16 to 26  | Bends over 2 inch mandrel while at -54°C.             |
| Cold Bending for gauges 12 to 14  | Bends over 3 inch mandrel while at -54°C.             |
| Fungus                            | Fungus Resistant                                      |

| GAUGE (AWG) | PART NO.  | MIL-SPEC PART NO. | NUMBER OF STRANDS (AWG) | GAUGE OF STRANDS (AWG) | NOM. DIAM. OF STRANDED CONDUCTOR |      | NOM. FIN. WIRE DIAM. |      | MAX. RESISTANCE (dc at 20° C) Ω /per |     | NOM. WT.        |       |
|-------------|-----------|-------------------|-------------------------|------------------------|----------------------------------|------|----------------------|------|--------------------------------------|-----|-----------------|-------|
|             |           |                   |                         |                        | IN.                              | mm   | IN.                  | mm   | 1000-ft                              | Km  | LBS per 1000-ft | Kg/Km |
| 26          | NC126U*   | M16878/2 BDA      | 1                       | 26                     | .0159                            | .404 | .050                 | 1.27 | 44.50                                | 146 | 2.00            | 3.0   |
| 26          | NC734U*   | M16878/2 BDB      | 7                       | 34                     | .0190                            | .483 | .053                 | 1.35 | 42.60                                | 140 | 2.10            | 3.1   |
| 26          | NC1938U*  | M16878/2 BDE      | 19                      | 38                     | .0190                            | .483 | .053                 | 1.35 | 40.10                                | 132 | 2.20            | 3.3   |
| 24          | NC124U    | M16878/2 BEA      | 1                       | 24                     | .0201                            | .511 | .054                 | 1.97 | 27.50                                | 89  | 2.50            | 3.7   |
| 24          | NC732U    | M16878/2 BEB      | 7                       | 32                     | .0240                            | .610 | .058                 | 1.47 | 26.20                                | 82  | 2.60            | 3.9   |
| 24          | NC1936U   | M16878/2 BEE      | 19                      | 36                     | .0240                            | .610 | .058                 | 1.47 | 25.40                                | 73  | 2.75            | 4.1   |
| 22          | NC122U    | M16878/2 BFA      | 1                       | 22                     | .0253                            | .643 | .059                 | 1.50 | 17.20                                | 56  | 3.50            | 5.2   |
| 22          | NC730U    | M16878/2 BFB      | 7                       | 30                     | .0300                            | .762 | .064                 | 1.63 | 16.70                                | 55  | 3.65            | 5.4   |
| 22          | NC1934U   | M16878/2 BFE      | 19                      | 34                     | .0300                            | .762 | .064                 | 1.63 | 15.90                                | 52  | 3.75            | 5.6   |
| 20          | NC120U    | M16878/2 BGA      | 1                       | 20                     | .0320                            | .813 | .066                 | 1.68 | 10.70                                | 35  | 5.30            | 7.9   |
| 20          | NC728U    | M16878/2 BGB      | 7                       | 28                     | .0380                            | .965 | .072                 | 1.83 | 10.40                                | 34  | 5.40            | 8.0   |
| 20          | NC1030U   | M16878/2 BGC      | 10                      | 30                     | .0380                            | .965 | .072                 | 1.83 | 11.80                                | 39  | 5.45            | 8.1   |
| 20          | NC1932U   | M16878/2 BGE      | 19                      | 32                     | .0380                            | .965 | .072                 | 1.83 | 9.76                                 | 32  | 5.50            | 8.2   |
| 18          | NC118U    | M16878/2 BHA      | 1                       | 18                     | .0403                            | 1.02 | .075                 | 1.91 | 6.78                                 | 22  | 7.80            | 11.6  |
| 18          | NC726U    | M16878/2 BHB      | 7                       | 26                     | .0480                            | 1.22 | .082                 | 2.08 | 6.54                                 | 21  | 7.90            | 11.8  |
| 18          | NC1930U   | M16878/2 BHE      | 19                      | 30                     | .0480                            | 1.22 | .082                 | 2.08 | 6.22                                 | 20  | 8.00            | 11.9  |
| 16          | NC116U    | M16878/2 BJA      | 1                       | 16                     | .0508                            | 1.29 | .085                 | 2.16 | 4.26                                 | 14  | 8.50            | 12.7  |
| 16          | NC1929U*  | M16878/2 BJE      | 19                      | 26                     | .0540                            | 1.37 | .091                 | 2.31 | 4.82                                 | 16  | 10.00           | 14.9  |
| 16          | NC2630U   | M16878/2 BJF      | 26                      | 30                     | .0550                            | 1.40 | .094                 | 2.39 | 4.59                                 | 15  | 10.50           | 15.6  |
| 14          | NC114U†   | M16878/2 BKA      | 1                       | 14                     | .0641                            | 1.63 | .098                 | 2.49 | 2.68                                 | 9   | 15.50           | 23.1  |
| 14          | NC1927U†* | M16878/2 BKE      | 19                      | 27                     | .0690                            | 1.75 | .105                 | 2.67 | 3.05                                 | 10  | 15.00           | 22.3  |
| 14          | NC4130U†  | M16878/2 BKH      | 41                      | 30                     | .0710                            | 1.80 | .112                 | 2.84 | 2.94                                 | 9.7 | 14.50           | 21.5  |
| 12          | NC1925U†* | M16878/2 BLE      | 19                      | 25                     | .0890                            | 2.26 | .124                 | 3.15 | 1.92                                 | 6.3 | 24.00           | 35.7  |
| 12          | NC3728U†* | M16878/2 BLG      | 37                      | 28                     | .0890                            | 2.26 | .124                 | 3.15 | 2.01                                 | 6.6 | 25.00           | 37.2  |

Standard basic insulation color numbers are: Black: 0, Brown: 1, Red: 2, Orange: 3, Yellow: 4, Green: 5, Blue: 6, Violet: 7, Gray: 8, White: 9. The insulation color code number, per MIL-STD-681, may be 1, 2 or 3 digits depending on the number or absence of stripes. The 1st number is color of Insulation, 2nd number is color of first stripe; 3rd number is color of the second stripe. Example: White wire(9) + Red stripe(2) + Black stripe(0) makes a color code number of "920". That color number, "920" is appended to the part number. Sample part number might be "xxxxxx-xxx-920"

\* Not C.S.A. Certified  
† Not U.L. Recognized