

## Military Hook-up Wire

# LGM22759/43

- Rating : 200 °C conductor temperature, 600 volt, Normal Weight Wall
- Standard : MIL-W-22759/43

### Application

These normal weight, high temperature airframe and avionics wire utilize a dual layer insulation of cross-linked, modified ETFE. The contrasting colors provide a visual indication of possible abrasion or other mechanical damage due to physical abuse during service or installation. The insulation resists high PH cleaning fluids, fuels, lubricating oils and many other chemicals. These wires can withstand temperature extremes ranging from cold bend at -65 °C through aging at 300 °C for 7 hours. These wires are mechanically tough, flame retardant and weight saving solution to many electronic solutions.

### Construction and characteristics



- Conductor** Soft annealed silver plated copper
- Insulation** Dual Layer of irradiation cross-linked extruded ETFE. The primary insulation shall be of contrasting pigmentation to that of the outer insulation

### Wire Description

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↑ ↑  
Conductor Size Color

0=black, 1=brown, 2=red, 3=orange, 4=yellow,  
5=green, 6=blue, 7=violet, 8=gray, 9=white

|                  | Conductor |           |                      |       | Finished Wire                      |                     |                 |
|------------------|-----------|-----------|----------------------|-------|------------------------------------|---------------------|-----------------|
|                  | Size      | Stranding | Strand Diameter (mm) |       | Max. Conductor Resistance (ohm/km) | Outer Diameter (mm) | Max. wt (kg/km) |
| LSC Part Number  | AWG       | No. x AWG | Min.                 | Max.  |                                    |                     |                 |
| LGM22759/43-26-* | 26        | 19 x 38   | 0.458                | 0.508 | 125.98                             | 0.97 ~ 1.06         | 2.53            |
| LGM22759/43-24-* | 24        | 19 x 36   | 0.585                | 0.635 | 79.72                              | 1.10 ~ 1.19         | 3.42            |
| LGM22759/43-22-* | 22        | 19 x 34   | 0.737                | 0.787 | 49.54                              | 1.22 ~ 1.32         | 4.76            |
| LGM22759/43-20-* | 20        | 19 x 32   | 0.940                | 0.990 | 30.15                              | 1.43 ~ 1.52         | 6.99            |
| LGM22759/43-18-* | 18        | 19 x 30   | 1.169                | 1.244 | 19.00                              | 1.71 ~ 1.85         | 10.71           |
| LGM22759/43-16-* | 16        | 19 x 29   | 1.321                | 1.397 | 14.83                              | 1.88 ~ 2.03         | 13.39           |
| LGM22759/43-14-* | 14        | 19 x 27   | 1.651                | 1.752 | 9.45                               | 2.32 ~ 2.46         | 20.53           |
| LGM22759/43-12-* | 12        | 37 x 28   | 2.134                | 2.260 | 6.23                               | 2.75 ~ 2.89         | 30.50           |
| LGM22759/43-10-* | 10        | 37 x 26   | 2.693                | 2.870 | 3.90                               | 3.31 ~ 3.50         | 48.21           |
| LGM22759/43-8-*  | 8         | 133 x 29  | 4.014                | 4.394 | 2.16                               | 4.75 ~ 5.15         | 95.53           |
| LGM22759/43-6-*  | 6         | 133 x 27  | 5.030                | 5.511 | 1.37                               | 5.87 ~ 6.37         | 144.04          |
| LGM22759/43-4-*  | 4         | 133 x 25  | 6.350                | 6.959 | 0.87                               | 7.62 ~ 8.12         | 242.54          |

#### ► Remarks

Cables may be assembled using the requirements of MIL-C-27500, using Type SR components.