



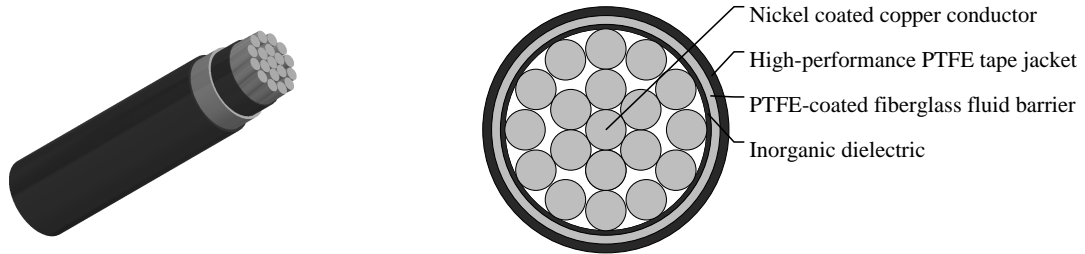
# Caledonian

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## MIL-W-25038/3 Thermazone IIIG 1C12AWG



### APPLICATIONS

These PTFE insulated single-core MIL-W-25038/3 cables are used in such aerospace applications as engine compartments, fire detection circuits, flight-critical circuits, and fly-by-wire systems. MIL-W-25038/3(Thermazone IIIG)wires also meet or exceed the requirements of MIL-W-25083/3, but provide this performance at a lower cost through the use of an innovative insulation system.

### VOLTAGE RATING

600V

### CABLE CONSTRUCTION

Conductor: Stranded 27% Nickel coated copper conductor

Insulation:

Outer: PTFE-coated fiberglass fluid barrier

Inner: Inorganic dielectric

Jacket: Fused high-performance polytetrafluoroethylene (PTFE) tape jacket

Identification: Surface printed per MIL-W-25038

### COLOUR CODE

Color coded: MIL-STD-104

### PHYSICAL AND THERMAL PROPERTIES

Temperature Range: -55°C to +260°C

### DIMENSION AND PARAMETERS

| AWG Size | Conductor Stranding | Conductor Diameter | Conductor Diameter | Overall Diameter (min.) | Overall Diameter (min.) | Overall Diameter (max.) | Overall Diameter (max.) | Approx. Weight | Max. Resistance at 20°C |
|----------|---------------------|--------------------|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------|-------------------------|
|          |                     | in                 | mm                 | in                      | mm                      | in                      | mm                      | LBS/MFT        | OHMS/MFT                |
| 12       | 19/25               | 0.09               | 2.286              | 0.1                     | 2.54                    | 0.142                   | 3.607                   | 28             | 2.78                    |