

DATE: 18/07/2007  
ORIGINATOR: A.J.R.  
CHECKED:

## **BELDEN - SPECIFICATION DATA SHEET**

### **CABLE TYPE**

ETFE INSULATED EQUIPMENT WIRE

### **GENERAL DESCRIPTION**

TIN PLATED COPPER CONDUCTOR, ETFE EXTRUDED  
TYPE 2 – MEDIUM WALL INSULATION.

### **RELEVANT STANDARDS**

DEF STAN 61-12 PART 29 TYPE 2

#### **Wires - ETFE**

| Conductor Details |                |          | Insulation Thickness | Overall Diameter |           | Conductor Resistance              | Mass         | Nato Stock Number* |
|-------------------|----------------|----------|----------------------|------------------|-----------|-----------------------------------|--------------|--------------------|
| Size AWG          | Stranding (mm) | O/D (mm) | Nom. (mm)            | Min. (mm)        | Max. (mm) | Max. ( $\Omega/\text{km}$ @ 20°C) | Max. (kg/km) |                    |
| 24                | 19/0.120       | 0.60     | 0.25                 | 1.05             | 1.15      | 94.80                             | 3.44         | 6145-99-724-9739   |
| 22                | 19/0.150       | 0.75     | 0.25                 | 1.20             | 1.30      | 61.30                             | 4.89         | 6145-99-648-3672   |
| 20                | 19/0.200       | 1.00     | 0.25                 | 1.45             | 1.55      | 33.60                             | 7.73         | 6145-99-724-9742   |
| 18                | 19/0.250       | 1.25     | 0.30                 | 1.80             | 1.90      | 21.20                             | 11.78        | 6145-99-727-3608   |
| 16                | 19/0.300       | 1.50     | 0.30                 | 2.05             | 2.15      | 14.60                             | 16.10        | 6145-99-724-9744   |
| 14                | 37/0.250       | 1.75     | 0.30                 | 2.30             | 2.46      | 10.70                             | 21.50        | 6145-99-724-9747   |
| 12                | 37/0.320       | 2.24     | 0.30                 | 2.71             | 2.99      | 6.44                              | 33.70        | 6145-99-724-9749   |

\*NSN is only applicable to a wire that has white insulation

#### **Cables – ETFMETSHEATH (above core screened and sheathed)**

| ETFE Core | Diameter of Braid Strands | Diameter over Braid | Jacket Thickness | ETFMETSHEATH Cable Diameter |           | Cable Resistance                  | Mass         |
|-----------|---------------------------|---------------------|------------------|-----------------------------|-----------|-----------------------------------|--------------|
| Size AWG  | Nom. (mm)                 | Nom. (mm)           | Min. (mm)        | Min. (mm)                   | Max. (mm) | Max. ( $\Omega/\text{km}$ @ 20°C) | Max. (Kg/Km) |
| 24        | 0.100                     | 1.55                | 0.15             | 1.80                        | 2.00      | 98.60                             | 10.54        |
| 22        | 0.100                     | 1.70                | 0.15             | 1.95                        | 2.15      | 63.70                             | 12.29        |
| 20        | 0.100                     | 1.95                | 0.15             | 2.20                        | 2.40      | 35.00                             | 16.50        |
| 18        | 0.100                     | 2.30                | 0.15             | 2.55                        | 2.85      | 22.10                             | 23.11        |
| 16        | 0.100                     | 2.55                | 0.15             | 2.80                        | 3.10      | 15.20                             | 28.54        |
| 14        | 0.100                     | 2.80                | 0.15             | 3.05                        | 3.41      | 11.10                             | 36.53        |
| 12        | 0.100                     | 3.29                | 0.15             | 3.46                        | 3.94      | 6.70                              | 51.70        |

### **CABLE CHARACTERISTICS**

**VOLTAGE RATING:** 600 V rms Maximum

**TEMPERATURE RATING:** -40°C (flexed) or -75°C (fixed) to +135°C

Available in 11 basic colours Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink (plus natural) along with bi- colour combinations.

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