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1-800-Belden1



## General Description:

Thinnet 10Base2, 20 AWG stranded (19x32) .037" tinned copper conductor, plenum Ethernet, FPFA insulation, Duobond® II + overall TC braid shield (93% coverage), Flamarrest® jacket.

## Usage (Overall)

Suitable Applications: Thin Ethernet

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | 19x32     | TC - Tinned Copper | .037       |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material         | Dia. (in.) |
|-----------------------------|------------|
| FPFA - Foam Perfluoroalkoxy | .095       |

### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                             | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1       | Bonded Duofoil®         | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                                | 93           |

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

### Overall Cable

Overall Nominal Diameter: 0.160 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 22 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                   |
|---------------------------------------|-------------------|
| NEC/(UL) Specification:               | CL2P, CMP         |
| CEC/C(UL) Specification:              | CMP               |
| EU Directive 2011/65/EU (ROHS II):    | Yes               |
| IEEE Specification:                   | IEEE802.3 10Base2 |
| EU CE Mark:                           | Yes               |
| EU Directive 2000/53/EC (ELV):        | Yes               |
| EU Directive 2002/95/EC (RoHS):       | Yes               |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2006        |
| EU Directive 2002/96/EC (WEEE):       | Yes               |
| EU Directive 2003/11/EC (BFR):        | Yes               |

|                                   |       |
|-----------------------------------|-------|
| CA Prop 65 (CJ for Wire & Cable): | Yes   |
| MIL Order #39 (China RoHS):       | Yes   |
| RG Type:                          | 58A/U |

**Flame Test**

|                 |          |
|-----------------|----------|
| UL Flame Test:  | NFPA 262 |
| CSA Flame Test: | FT6      |

**Plenum/Non-Plenum**

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 9907 |

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

| Impedance (Ohm) | Tolerance (Ohms) |
|-----------------|------------------|
| 50              | +/- 2            |

**Nom. Inductance:**

| Inductance (µH/ft) |
|--------------------|
| .0635              |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/ft) |
|---------------------|
| 25.4                |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 80     |

**Nominal Delay:**

| Delay (ns/ft) |
|---------------|
| 1.27          |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 8.8                      |

**Maximum Loop Resistance:**

| Resistance (Ohm/1000 ft) |
|--------------------------|
| 15.24                    |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.8                      |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .43                      |
| 10          | 1.3                      |
| 50          | 2.91                     |
| 100         | 4.18                     |
| 200         | 6.1                      |
| 400         | 9.2                      |
| 700         | 12.9                     |
| 900         | 15.0                     |
| 1000        | 16.0                     |

**Max. Operating Voltage - UL:**

| Voltage   |
|-----------|
| 300 V RMS |

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color   | Notes | Item Desc           |
|----------------|----------|-------------|---------|-------|---------------------|
| 82907 877U1000 | 1,000 FT | 23.000 LB   | NATURAL | O     | #20 FPFA BRD FLMRST |
| 82907 8771000  | 1,000 FT | 23.000 LB   | NATURAL | C Z   | #20 FPFA BRD FLMRST |
| 82907 8772500  | 2,500 FT | 57.500 LB   | NATURAL | C Z   | #20 FPFA BRD FLMRST |
| 82907 877500   | 500 FT   | 12.500 LB   | NATURAL | C Z   | #20 FPFA BRD FLMRST |

**Notes:**

C = CRATE REEL PUT-UP.  
 O = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR UNREEL CARTONS FROM LENGTH SHOWN.  
 Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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