



**Part Number:** 82761

Single-Pair, (1 pr) 22 AWG (7x30) TC, FEP/LS PVC, Foil Shld, CMP

## Product Description

One 22 AWG pair stranded (7x30) tinned copper conductors, twisted pair, FEP insulation, overall Beldfoil® shield (100% coverage), Flamarrest® jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 22  | 7x30      | TC - Tinned Copper | 1            |

|                        |   |
|------------------------|---|
| Conductor Count:       | 2 |
| Total Number of Pairs: | 1 |

#### Insulation

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.0065 in              |

#### Color Chart

| Number | Color       |
|--------|-------------|
| 1      | Black & Red |

#### Outer Shield Material

| Type | Material                     | Material Trade Name          | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|------------------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® with shorting fold | 100 %        | TC - Tinned Copper | 22            | Stranded mm                  |

#### Outer Jacket Material

| Material                              | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------------------|---------------------|------------------|------------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flamarrest®         | 0.118 in         | 0.015 in               |

### Construction and Dimensions

#### Stranding

| Lay Length | Lay Direction | Twists     |
|------------|---------------|------------|
| 1.5 in     | Left Hand     | 8 twist/ft |

#### Cabling

| Lay Length |
|------------|
| 1.5 in     |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 15 Ohm/1000ft         | 12 Ohm/1000ft            |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 35 pF/ft                                | 67 pF/ft                                                |

## Inductance

| Nominal Inductance |
|--------------------|
| 0.16 $\mu$ H/ft    |

## Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 42 Ohm                           |

## Current

| Element              | Max. Recommended Current [A]          |
|----------------------|---------------------------------------|
| 10C Temperature Rise | 2.8 Amps per conductor @ 25°C ambient |

## Voltage

| UL Voltage Rating |
|-------------------|
| 300V RMS          |

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +75°C |
|-----------------------|----------------|

## Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 11 lbs/1000ft |
| Max Recommended Pulling Tension: | 27 lbs        |
| Min Bend Radius/Minor Axis:      | 1.25 in       |

## Standards

|                          |     |
|--------------------------|-----|
| NEC Articles:            | 800 |
| NEC/(UL) Specification:  | CMP |
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass:           | Eca |

## Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

## Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

## Flammability, LS0H, Toxicity Testing

|                   |          |
|-------------------|----------|
| UL Flammability:  | NFPA 262 |
| CSA Flammability: | FT6      |

## Part Number

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 8761 |

**Variants**

| Item #         | Color   |
|----------------|---------|
| 82761 8771000  | NATURAL |
| 82761 8775000  | NATURAL |
| 82761 877U1000 | NATURAL |
| 82761 877U500  | NATURAL |

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