



**Part Number:** 82740

Audio/Control/Instrumentation, (1 pr) 18 AWG (19x30)  
TC, FEP/LS PVC, CMP

## Product Description

One 18 AWG pair stranded (19x30) tinned copper conductors, plenum, twisted pairs, Teflon® (FEP) insulation, Flamarrest® jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| AWG                                | Stranding | Material           | No. of Pairs |
|------------------------------------|-----------|--------------------|--------------|
| 18                                 | 19x30     | TC - Tinned Copper | 1            |
| <b>Total Number of Conductors:</b> |           |                    | 2            |

#### Insulation:

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.007 in               |

#### Color Chart 1:

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

#### Outersheild 1:

| Material   |
|------------|
| Unshielded |

## Outerjacket 1:

| Material                              | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------------------|---------------------|------------------|------------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flamarrest®         | 0.143 in         | 0.015 in               |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 5.5 Ohm/1000ft        |

### Capacitance:

| Nom. Capacitance Conductor to Conductor |
|---|
| 20 pF/ft                                |

### Impedance:

| Nominal Characteristic Impedance |
|----------------------------------|
| 72 Ohm                           |

### Current:

| Max. Recommended Current [A]  |
|-------------------------------|
| 5.4 Amps per conductor @ 25°C |

### Inductance:

| Nominal Inductance |
|--------------------|
| 0.14 µH/ft         |

### Voltage:

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

## Use

|                                  |        |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 50 lbs |
|----------------------------------|--------|

## Safety

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

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +60°C |
|-----------------------|----------------|

## Mechanical Characteristics

|                             |        |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 1.5 in |
|-----------------------------|--------|

## Part Number

|                |      |
|----------------|------|
| Plenum (Y/N):  | Yes  |
| Plenum Number: | 9740 |

## Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification:          | CEC/C(UL) Specification          |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| NEC/(UL) Specification:           | NEC/(UL) Specification           |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |
| EU CE Mark:                       | EU CE Mark                       |

## History

## Product Variants

| Part Number    | Color   | Put-Up Type | Length  |
|----------------|---------|-------------|---------|
| 82740 8771000  | NATURAL | Reel        | 1000 ft |
| 82740 8775000  | NATURAL | Reel        | 5000 ft |
| 82740 877U1000 | NATURAL | UnReel      | 1000 ft |

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