



Part Number: 87761

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

Product Description

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

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Pairs |
|------------------------------------|-----------|--------------------|--------------|
| 22 | 7x30 | TC - Tinned Copper | 1 |
| Total Number of Conductors: | | | 2 |

Insulation:

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

Color Chart 1:

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

Outershield 1:

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

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness |
|------------------------|------------------|------------------------|
| PVDF - Fluorocopolymer | 0.116 in | 0.014 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 16 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 |

Impedance:

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

Current:

| Max. Recommended Current [A] |
|-------------------------------|
| 2.8 Amps per conductor @ 25°C |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.16 µH/ft |

Voltage:

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

Use

| | |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 27 lbs |
|----------------------------------|--------|

Safety

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

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -70°C To +150°C |
|-----------------------|-----------------|

Mechanical Characteristics

| | |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 1.25 in |
|-----------------------------|---------|

Part Number

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

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 |
|---------------|-------|-------------|---------|
| 87761 0021000 | RED | Reel | 1000 ft |
| 87761 0025000 | RED | Reel | 5000 ft |
| 87761 002500 | RED | Reel | 500 ft |

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