



Part Number: 83512

Control/Instrumentation, (12) 24 AWG (7x32) TC,
FEP/FEP, Foil+TC Braid Shld, CMP

Product Description

Twelve 24 AWG stranded (7x32) tinned copper conductors, plenum, Teflon® (FEP) insulation, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (85% coverage), Teflon® (FEP) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Conductors |
|------------------------------------|-----------|--------------------|-------------------|
| 24 | 7x32 | TC - Tinned Copper | 12 |
| Total Number of Conductors: | | | 12 |

Insulation:

| Material | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.006 in |

Color Chart 1:

| Number | Color |
|--------|--------------|
| 1 | Black |
| 2 | White |
| 3 | Red |
| 4 | Green |
| 5 | Orange |
| 6 | Blue |
| 7 | White/Black |
| 8 | Red/Black |
| 9 | Green/Black |
| 10 | Orange/Black |
| 11 | Blue/Black |
| 12 | Black/White |

Outershield 1:

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|------------------------------|---------------------|--------------|
| Tape | 1 | Aluminum Foil-Polyester Tape | Beldfoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 85 % |

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.207 in | 0.014 in |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24 Ohm/1000ft | 3.6 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 20 pF/ft | 36 pF/ft |

Current:

| Max. Recommended Current [A] |
|-------------------------------|
| 1.4 Amps per conductor @ 25°C |

Voltage:

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

Use

| | |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 74 lbs |
|----------------------------------|--------|

Safety

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

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -70°C To +200°C |
|-----------------------|-----------------|

Mechanical Characteristics

| | |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 2.25 in |
|-----------------------------|---------|

Part Number

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

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

| | |
|--------|---|
| Notes: | Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application. |
|--------|---|

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|-------|-------------|---------|
| 83512 0021000 | RED | Reel | 1000 ft |

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