



Part Number: 1090A

600V Tray, (50 pr) 16 AWG (7x24) BC, PVC-NYL/PVC, Foil Shld, TC-ER

[Request Sample](#)

Product Description

Fifty 16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, PVC/Nylon insulation, individually shielded plus an overall Beldfoil® shield (100% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------|--------------|
| 16 | 7x24 | BC - Bare Copper | 50 |

| | |
|-------------------------|--------|
| Conductor Count: | 100 |
| Total Number of Pairs: | 50 |
| Total Number of Triads: | N/A |
| Conductor Size: | 16 AWG |

Insulation

| Material | Nominal Diameter |
|--------------------------------------|------------------|
| PVC/Nylon - Polyvinyl Chloride/Nylon | 0.101 in |

Color Chart

| Number | Color |
|--------|-------------------------------|
| 1 | Black & White and Numbered 1 |
| 2 | Black & White and Numbered 2 |
| 3 | Black & White and Numbered 3 |
| 4 | Black & White and Numbered 4 |
| 5 | Black & White and Numbered 5 |
| 6 | Black & White and Numbered 6 |
| 7 | Black & White and Numbered 7 |
| 8 | Black & White and Numbered 8 |
| 9 | Black & White and Numbered 9 |
| 10 | Black & White and Numbered 10 |
| 11 | Black & White and Numbered 11 |
| 12 | Black & White and Numbered 12 |
| 13 | Black & White and Numbered 13 |
| 14 | Black & White and Numbered 14 |
| 15 | Black & White and Numbered 15 |
| 16 | Black & White and Numbered 16 |
| 17 | Black & White and Numbered 17 |
| 18 | Black & White and Numbered 18 |
| 19 | Black & White and Numbered 19 |
| 20 | Black & White and Numbered 20 |
| 21 | Black & White and Numbered 21 |
| 22 | Black & White and Numbered 22 |
| 23 | Black & White and Numbered 23 |
| 24 | Black & White and Numbered 24 |
| 25 | Black & White and Numbered 25 |
| 26 | Black & White and Numbered 26 |

| | |
|----|-------------------------------|
| 27 | Black & White and Numbered 27 |
| 28 | Black & White and Numbered 28 |
| 29 | Black & White and Numbered 29 |
| 30 | Black & White and Numbered 30 |
| 31 | Black & White and Numbered 31 |
| 32 | Black & White and Numbered 32 |
| 33 | Black & White and Numbered 33 |
| 34 | Black & White and Numbered 34 |
| 35 | Black & White and Numbered 35 |
| 36 | Black & White and Numbered 36 |
| 37 | Black & White and Numbered 37 |
| 38 | Black & White and Numbered 38 |
| 39 | Black & White and Numbered 39 |
| 40 | Black & White and Numbered 40 |
| 41 | Black & White and Numbered 41 |
| 42 | Black & White and Numbered 42 |
| 43 | Black & White and Numbered 43 |
| 44 | Black & White and Numbered 44 |
| 45 | Black & White and Numbered 45 |
| 46 | Black & White and Numbered 46 |
| 47 | Black & White and Numbered 47 |
| 48 | Black & White and Numbered 48 |
| 49 | Black & White and Numbered 49 |
| 50 | Black & White and Numbered 50 |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum/Polyester | Beldfoil® | 100 % | TC - Tinned Copper | 16 | 7x24 mm |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 1.588 in | 0.084 in | Yes |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 3.67 Ohm/1000ft | 2.84 Ohm/1000ft |

Voltage

| UL Voltage Rating |
|-------------------|
| 600 V RMS |
| 150 V RMS |

Temperature Range

| | |
|-----------------|--------------------|
| UL Temp Rating: | 75°C Dry, 90°C Wet |
| Wet Temp Range: | -30°C To +75 °C |
| Dry Temp Range: | -30°C To +90 °C |

Mechanical Characteristics

| | |
|----------------------------------|-----------------|
| Bulk Cable Weight: | 1380 lbs/1000ft |
| Max Recommended Pulling Tension: | 3606 lbs |
| Min Bend Radius/Minor Axis: | 15.5 in |

Standards

| | |
|-------------------------|----------|
| NEC/(UL) Specification: | NPLF, TC |
|-------------------------|----------|

Applicable Environmental and Other Programs

| | |
|------------------------------------|-----|
| EU Directive 2000/53/EC (ELV): | 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 - Burial: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|---------------------|-------------------|
| C(UL) Flammability: | FT4 |
| UL Flammability: | UL1685 UL Loading |
| IEEE Flammability: | 1202 |
| UL voltage rating: | 600 V RMS |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

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