



Product: [1086A](#)

Inst, 24 Tri #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

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Product Description

UL Instrumentation, 24 Triad 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors | No. of Triads |
|-----|-----------|------------------|-------------------|---------------|
| 20 | 7x28 | BC - Bare Copper | | 24 |
| 22 | 7x30 | BC - Bare Copper | 1 | |

Conductor Count: 73

Insulation

| Material | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.0175 in |
| PVC - Polyvinyl Chloride | 0.019 in |

Color Chart

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

Color Chart 2

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

Inner Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil® | 100 % | TC - Tinned Copper | 22 | 7x30 |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil® | 100 % | TC - Tinned Copper | 20 | 7x28 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 1.079 in | 0.074 in | Yes |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 9.5 Ohm/1000ft | 16 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 30 pF/ft | 55 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.19 µH/ft |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 3 Amps per conductor @ 25°C |

Voltage

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

Temperature Range

| | |
|-----------------------|-----------------|
| UL Temp Rating: | 105°C |
| Operating Temp Range: | -30°C To +105°C |

Mechanical Characteristics

| | |
|----------------------------------|----------------|
| Bulk Cable Weight: | 607 lbs/1000ft |
| Max Recommended Pulling Tension: | 1250 lbs |
| Min Bend Radius/Minor Axis: | 9.9 in |

Standards

| | |
|--------------------------|----------------------|
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMG, ITC-ER, PLTC-ER |
| CEC/C(UL) Specification: | CMG |
| UL AWM Style: | 2464 |

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 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|---------------------|-------------------|
| C(UL) Flammability: | FT4 |
| UL Flammability: | UL1685 UL Loading |
| ICEA Flammability: | T-29-520 |
| IEEE Flammability: | 1202 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 1086A 0102500 | Black | Reel | 2,500 ft | 612825106159 |

| | |
|-----------|--|
| Footnote: | C - CRATE REEL PUT-UP. |
| Footnote: | Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.327 Revision Date: 04-28-2020 |
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