



Product: [1079A](#)

Inst, 16 Pr #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, 16 Pair 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 Pairs |
|-----|-----------|------------------|-------------------|--------------|
| 20 | 7x28 | BC - Bare Copper | | 16 |
| 22 | 7x30 | BC - Bare Copper | 1 | |

| | |
|------------------------|----|
| Conductor Count: | 33 |
| Total Number of Pairs: | 16 |

Insulation

| Material | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.0175 in |
| PVC - Polyvinyl Chloride | 0.019 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 | 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 | 0.704 in | 0.063 in | Yes |

Construction and Dimensions

Cabling

Lay Direction

Left Hand

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 9.5 Ohm/1000ft | 6.5 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

150 V RMS (ITC)

Temperature Range

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

Mechanical Characteristics

| | |
|----------------------------------|----------------|
| Bulk Cable Weight: | 307 lbs/1000ft |
| Max Recommended Pulling Tension: | 617 lbs |
| Min Bend Radius/Minor Axis: | 7.5 in |

Standards

| | |
|--------------------------|----------------|
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMG, ITC, PLTC |
| 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 - 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 |
|---------------|-------|------------|----------|--------------|
| 1079A 0105000 | Black | Reel | 5,000 ft | 612825106005 |

| | |
|-----------|------------------------|
| 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: 0.332 Revision Date: 04-28-2020 |
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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9