



Product: <u>1040A</u> ☑

Inst, 6 Pr #16 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry/Wet

Product Description

UL Instrumentation, 6 Pair 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications: Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|---------|-------------------|--------|-----------|------------------|
| Pair(s) | 6 | 16 AWG | 7x24 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|--|--------------------|--------------------------|---------------|
| Pair(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | 0.101 in (2.57 mm) | ICEA Chart E1 |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type | Notes |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Таре | Bi-Laminate (Alum+Poly) | 100% | 18 AWG (7x26) TC | each pair |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 16 AWG (7x24) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|-----------------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.064 in (1.6 mm) | 0.670 in (17.0 mm) | Yes |
| Overall Cable Diameter (Nominal): | 0.670 in (17.0 m | nm) | |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Inner Shield DCR | Max. Current |
|---------|--------------------|-------------------------------|-----------------------------|
| Pair(s) | 4.2 Ohm/1000ft | 5.49 Ohm/1000ft (18.0 Ohm/km) | 9 Amps per conductor @ 30°C |

Voltage

UL Voltage Rating 600 V (TC-ER), 150 V (NPLF)

Mechanical Characteristics

Temperature

UL Temperature Operating

90°C Dry, 90°C Wet | -30°C to 90°C Dry/Wet

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 8.0 in (200 mm) | 8.0 in (200 mm) |

| Max. Pull Tension: | 486 lbs (220 kg) |
|--------------------|------------------|
| Bulk Cable Weight: | 264 lbs/1000ft |

Standards and Compliance

| Environmental Suitability: | Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial |
|-----------------------------------|---|
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4, IEEE 1202 FT4 |
| NEC / UL Compliance: | Article 336, Article 760, NPLF, TC-ER |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | 07-KA080011-MSHA, ICEA S-73-532, S-61-402 |

History

| Update and Revision: | Revision Number: 0.555 Revision Date: 04-14-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 1040A 0105000 | Black | Reel | 5,000 ft | 612825105213 |

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