



Product: <u>1041A</u> 2

Inst, 8 Pr #16 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry/Wet

😭 Request Sample

Product Description

UL Instrumentation, 8 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 | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|------------------|
| Pair(s) | 8 | 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 |
|-------------|-------------------------|----------|------------------|
| Таре | Bi-Laminate (Alum+Poly) | 100% | 16 AWG (7x24) TC |

Outer Jacket

| Material | Nom. Thickness No | Nom. Diameter | Ripcord |
|--------------------------------------|------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.064 in (1.6 mm) 0.72 | 725 in (18.4 mm) | Yes |
| Overall Cable Diameter (Nominal): | 0.725 in (18.4 mm) | | |

Electrical Characteristics

Electricals

| Eleme | nt 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

Bend Radius

| Stationary Min. Installation | on Min. |
|------------------------------|------------------|
| 8.7 in (220 mm) 8.7 in (22 | 0 mm) |
| Max. Pull Tension: | 629 lbs (285 kg) |
| Bulk Cable Weight: | 323 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 |
| History | |

History

Verlente

| Update and Revision: | Revision Number: 0.616 Revision Date: 01-04-2024 |
|----------------------|--|
|----------------------|--|

Part Numbers

| valialits | | | | | | | |
|-----------|---------------|-------|------------|----------|--------------|----------|--|
| | Item # | Color | Putup Type | Length | UPC | Footnote | |
| | 1041A 0105000 | Black | Reel | 5,000 ft | 612825105237 | CZ | |

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