



**Product:** [27109A](#)

TC VN/PVC, 2 C #12 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 150V  
NPLF 90C Wet/Dry SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2 Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Wet/Dry 90C SUN RES DIR BUR

Technical Specifications

Product Overview

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| Suitable Applications: | Power and Control Applications up to 600V; Class 1 Division 2 Hazardous Locations |
|------------------------|-----------------------------------------------------------------------------------|

Construction Details

| Conductor    |                 |        |           |                  |
|--------------|-----------------|--------|-----------|------------------|
| Element      | No. of Elements | Size   | Stranding | Material         |
| Conductor(s) | 2               | 12 AWG | 7x20      | BC - Bare Copper |

| Insulation   |                                        |                    |                          |            |
|--------------|----------------------------------------|--------------------|--------------------------|------------|
| Element      | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code |
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.021 in (0.53 mm) | 0.134 in (3.40 mm)       | Black, Red |

| Outer Shield |           |
|--------------|-----------|
| Material     | No Shield |

| Outer Jacket                                       |                   |                  |         |
|----------------------------------------------------|-------------------|------------------|---------|
| Material                                           | Nom. Thickness    | Nom. Diameter    | Ripcord |
| PVC - Polyvinyl Chloride                           | 0.048 in (1.2 mm) | 0.234 x 0.372 in | Yes     |
| Overall Cable Diameter (Nominal): 0.234 x 0.372 in |                   |                  |         |

Electrical Characteristics

| Electricals        |                               |
|--------------------|-------------------------------|
| Nom. Conductor DCR | Max. Current                  |
| 1.68 Ohm/1000ft    | 30 Amps per Conductor at 30°C |

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

Mechanical Characteristics

| Temperature        |                        |
|--------------------|------------------------|
| UL Temperature     | Operating              |
| 90°C Dry, 90°C Wet | Wet/Dry: -30°C to 90°C |

| Bend Radius         |                   |
|---------------------|-------------------|
| Stationary Min.     | Installation Min. |
| 1.488 in (37.80 mm) | 1.86 in (47.2 mm) |

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 174 lbs (78.9 kg) |
| Bulk Cable Weight: | 74 lbs/1000ft     |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, Burial                                                                              |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEEE 1202 FT4                                                                                          |
| NEC / UL Compliance:             | Article 336, NPLF, TC, THWN-2                                                                                             |
| 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)                                                                                           |

Product Notes

|        |                   |
|--------|-------------------|
| Notes: | Flat construction |
|--------|-------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.607 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type | Length    | UPC          | Footnote |
|-----------------|-------|------------|-----------|--------------|----------|
| 27109A 01025000 |       | Reel       |           |              |          |
| 27109A 0105000  | Black | Reel       | 5,000 ft  | 612825132974 |          |
| 27109A 01010000 | Black | Reel       | 10,000 ft | 612825132967 | C        |

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