Atkore – Talon® Cable Cleats

This product specification is written according to the Construction Specifications Institute *MasterFormat*, 2018 Update.

**SECTION 26 05 36**

**CABLE TRAY ACCESSORIES**

PART 1 – GENERAL

* 1. SUMMARY
     1. This section Includes the following products for bundling or harnessing wire and cables:
        1. Atkore - Talon® Cable Cleats
     2. Related Sections
        1. 26 05 36 (Cable Trays)
        2. 26 05 13 (MV Cables)
        3. 26 05 19 (LV Cables)
        4. 26 05 29 (Hangers and Supports)
  2. REFERENCES
     1. International Electrotechnical Commission- IEC 61914 - Cable cleats for electrical installations.
     2. NEMA BI50018-2024 Cable Cleats
     3. CSA C22.2 No. 61914-2023 Cable Cleats for Electrical Installations
  3. SUBMITTALS
     1. Comply with Section 01 33 00 – Submittal Procedures.
     2. Product Data:
        1. Submit manufacturer’s descriptive literature and product specifications for each product.
        2. Manufacturer’s product drawings.
     3. Manufacturer’s installation instructions.
     4. Certifications to applicable standards.
     5. Domestic certifications: When required to Buy American Act or Buy America Act, comply with the provisions of Section 01 33 13.
  4. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Products shall be free of defects in material and workmanship.
     2. Furnished products are listed, recognized, or classified by third party agencies as being suitable for the intended purpose.
  5. DELIVERY, STORAGE AND HANDLING
     1. Store cable cleats in their original packaging in a covered, dry storage area until ready for installation.
     2. Prior to installation, avoid contaminating threaded hardware with dust, oil, etc.

PART 2 – PRODUCTS

* 1. GENERAL
     1. Cable Cleats may be NEMA BI50018/IEC 61914 Compliant and/or CSA C22.2 No. 61914 Certified.
  2. MANUFACTURERS
     1. Atkore - Talon® Cable Cleats 11539 N Houston Rosslyn Rd Houston, TX 77088

[TALON® Cable Cleats](https://www.atkore.com/products/cable-tray-systems/talon(r)-cable-cleats)

* 1. DESIGN AND PERFORMANCE REQUIREMENTS
     1. Basis-of-Design Product: Subject to compliance with requirements for protection of wires and cables from mechanical damage due to short circuit faults as provided by Atkore Cope cable tray systems.
     2. Composite – non-metallic frame with austenitic stainless steel gripping bolts and flange nuts.
     3. Minimum temperature = -60 °C (-76 °F);
     4. Maximum temperature = +85 °C (+185 °F) and suitable for 250 °C momentary conductor

temperature.

* + 1. Resistant to impact = Very Heavy, 20.0 J Impact Energy @ -60 °C (-76 °F) — Performed on UV test specimens.
    2. Resistant to lateral forces > 15,000 N (3,373 lbf) @ +60 °C (+140 °F) — Parallel or perpendicular to mounting surface.
    3. Resistant to axial forces = 5,000 N (1,124 lbf) for T3 cleats with 3 mandrels; 4,448 N (1,000 lbf) for T1 cleats with 4 mandrels; 3,336 N (750 lbf) for T1 cleats with 1 mandrel — @ +60 °C (+140 °F) Performed on lateral test specimens, as well as short circuit test specimens.
    4. Resistant to electromechanical forces — withstanding more than one short circuit.
       1. Flat: 105 kA PEAK (Ø37 mm cables @ 300 mm spacing) Specimens subsequently tested for axial retention.
       2. Trefoil: 123 kA PEAK (Ø37 mm cables @ 300 mm lineal and 105 mm phase spacing) — Specimens subsequently tested for axial retention.
       3. Quad: 86 kA PEAK (Ø37 mm cables @ 300 mm spacing) — Specimens subsequently tested for axial retention.
       4. DLO: 68 kA PEAK (Ø35 mm cables @ 18” spacing)
       5. Multiconductor: 70kA PEAK (Ø35 mm cables @ 9” spacing)
       6. Cable cleats, cables and cable tray are intact and reusable after multiple short circuit tests.
    5. Resistant to ultraviolet light — Specimens subsequently tested for impact resistance.
    6. Resistant to corrosion — Outdoor classification, suitable for wet locations.
    7. Resistant to flame propagation – No flaming, no dripping, and no ignition of paper.
    8. Low Smoke Emission – Low smoke zero halogen (LSZH) thermoplastic resin; and
    9. Electromagnetic compatibility – Zero electromagnetic emission; not liable to inductive eddy current heating.

PART 3 – EXECUTION

3.01 INSTALLATION

* + 1. Installation shall be in accordance with the NEC and CEC requirements where applicable, and the manufacturer’s instructions.

END OF SECTION