



# Talon<sup>®</sup> Cable Cleats

Data Sheet

# Talon® Cable Cleats



Talon® cable cleats utilize a high strength interlocking frame that simultaneously encloses cables and a cable tray rung or attaches to a channel strut or structural mounting substrate. In addition to securing cables subject to axial, lateral and torsional forces, Talon® cable cleats provide superior strain relief for vertical cables.

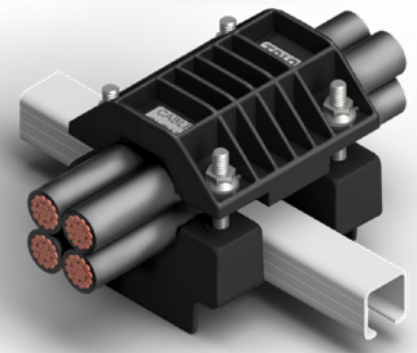
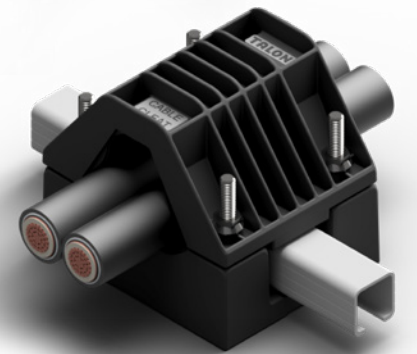
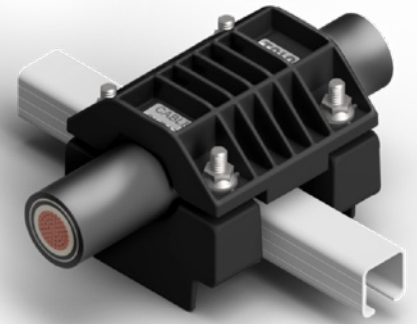
Talon® cable cleats are designed and tested to protect high voltage, medium voltage and low voltage cables from mechanical damage resulting from short circuits. You can trust Talon® cable cleats to maintain constant vigilance over your cables and support system.



Staggered Rung Application



Common Rung Application



# Talon® Cable Cleats

Table 1 – Classifications And Testing<sup>1,2</sup>

Category	Classification and Test Results
<b>Color</b>	Permanent Black
<b>Strength Classification (ISO 527-1 §3.12)</b>	Rigid — Cable cleats intact and reusable; no deformation after lateral retention or short circuit tests <sup>3</sup>
<b>Material Classification (IEC 61914:2021 §6.1.3)</b>	Composite — Nonmetallic frame with austenitic stainless steel gripping bolts and flange nuts
<b>Ambient Application Temperature (IEC 61914:2021 §6.2)</b>	-60 °C to +85 °C (-76 °F to +185 °F) — Suitable for direct sunlight and 250 °C momentary conductor temperature
<b>Resistant to Impact (IEC 61914:2021 §6.3.5, §9.1.b, §9.2)</b>	Very Heavy, 20.0 J Impact Energy @ -60 °C (-76 °F) — Performed on UV test specimens
<b>Lateral Retention (IEC 61914:2021 §6.4.2, §9.1.c, §9.3.1, §9.3.2)</b>	> 17,000 N (3,822 lbf) @ +60 °C (140 °F) — Parallel or Perpendicular to mounting surface <sup>3</sup>
<b>Axial Retention (IEC 61914:2021 §6.4.3, §9.1.d, §9.4)</b>	T1 & T3: 5,000 N (1,124 lbf) @ +60 °C (140 °F) — Performed on lateral test and short circuit test specimens <sup>3</sup>
<b>Resistant to Electromechanical Forces (IEC 61914:2021 §6.4.4, §6.4.5, §9.1. e, §9.5.2, §9.5.3)</b>	Trefoil: 154 kA PEAK (Ø33 mm cables) — Specimens subsequently tested for axial retention Cables, cable cleats and cable tray are intact and reusable after multiple short circuit tests <sup>3</sup>
<b>Resistant to Environmental Influences (IEC 61914:2021 §6.5.1.2, CSA C22.2 No. 18.4-15/ UL 2239:2015 §6.8)</b>	Pass – Resistant to Ultraviolet Light (§11.1) — Specimens subsequently tested for impact resistance Pass – Resistant to Ultraviolet Light (CSA C22.2 No. 18.4-15/ UL 2239:2015 §6.8) — Suitable for wet locations Pass – Exceeds Classification “Outdoor” Corrosion Resistance (§6.5.2.2, §6.5.2.3, §11.2.2, §11.2.3) — Suitable for wet locations
<b>Resistant to Flame Propagation (IEC 61914:2021 §10.1)</b>	Pass – Exceeds Test Criteria – No flaming, no dripping, and no ignition of paper
<b>Low Smoke Emission (IEC 61914:2021 §10.2, §10.3)</b>	Pass – Low Smoke Zero Halogen (LSZH) resin
<b>Electromagnetic Compatibility (IEC 61914:2021 §6.6.2, §12)</b>	Pass – Zero electromagnetic emission (§12.1) Pass – Not susceptible to inductive eddy current heating (§6.6.2, §12.2)

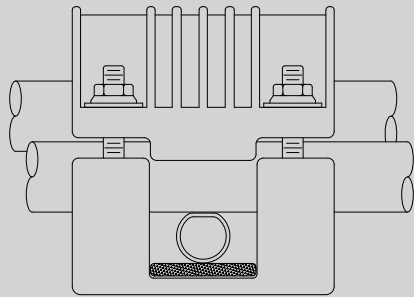
Notes to Table 1:

1. Unless otherwise noted, section numbers refer to the international cable cleat standard IEC 61914:2021, Cable cleats for electrical installations.
2. Talon® cable cleats are tested to applicable US and Canadian safety standards.
3. To prove suitability for continued use after exposure to dynamic electromechanical forces, Talon® cable cleats are tested for axial resistance after lateral resistance and short circuit testing. Any and all business undertaken with Atkore is subject to the latest revision of the Atkore Sales Terms and Conditions as stated therein.

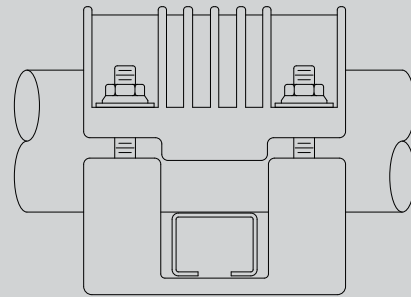


# Talon® Cable Cleats

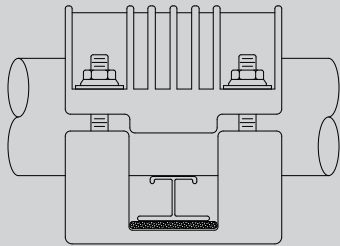
Figure 1 - Talon® Cable Cleats On Common Ladder-Type Cable Tray Rungs and Channel Strut



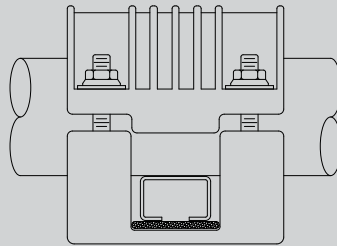
CABLE TRAY MOUNTING  
ATKORE SWAGE RUNG



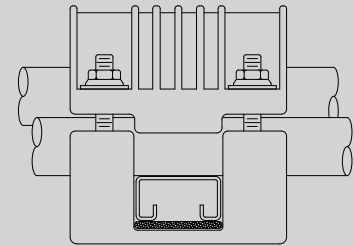
CABLE TRAY MOUNTING  
ATKORE WELDED RUNG



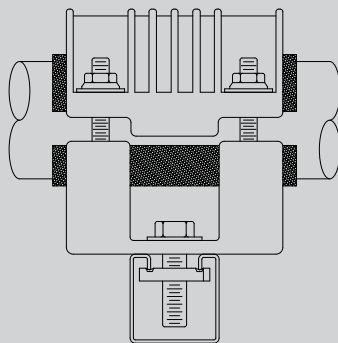
CABLE TRAY MOUNTING  
I-BEAM RUNG



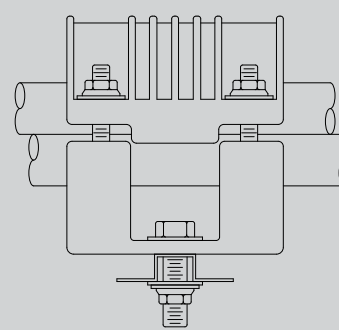
CABLE TRAY MOUNTING  
BOX RUNG



CABLE TRAY MOUNTING  
STRUT RUNG



CHANNEL STRUT MOUNTING  
w/ OPTIONAL LINER



CABLE TRAY MOUNTING  
HAT RUNG



# Talon® Cable Cleats

Table 2 - Talon® Cable Cleat Part Numbers<sup>1</sup>

Frame Size <sup>2,3,4</sup>	Dash	Frame Type <sup>5,6</sup>	Integral Gripping Hardware	Rung Spacer	Dash	Custom Features
T1 04* T1 05* T1 06 T3 03* T3 04* T3 05* T3 06*	-	F1 = Heavy Duty	H4 = 304 Stainless Steel Hex Bolts and Flange Nuts  H6 = 316 Stainless Steel Hex Bolts and Flange Nuts	R00 R10 R15 R20 R30 R40	-	00 = Type tested to IEC 61914 CI = Rung Channel Insert

Notes to Table 2:

- For assistance in specifying Talon® cable cleat part numbers, refer to Talon Cable Cleat Sell Sheet.
- \* = Talon® cable cleat frame sizes normally in stock
- Talon® cable cleats are molded from high-strength polyamide that is electrically insulating, flame resistant, UV resistant, weather resistant, low smoke, zero halogen and resistant to drilling mud, gaseous atmospheres, salts, and many other chemicals.
- Talon® cable cleats are tested to US and Canadian safety standards, are suitable for wet locations and have passed rigorous testing in accordance with ASTM B117, D256, D570, D638, D789, D790, D792, D3418 & D5630, CSA C22.2 No. 18.4-15, IEC 60695 & 61914, ISO 75, 178, 179, 180, 527-1, 1183, 3146, 3451, 4892-2, 15512 & 60695-11, and UL 94, 746, 969 & 2239. Refer to Table 1 for classifications and testing.
- Talon® cable cleats comprising F1 heavy duty frames are designed and tested to protect cables from mechanical damage resulting from short circuits, secure cables subject to axial, lateral and torsional forces and provide superior strain relief for vertical cables. Talon® cable cleats may be used with high voltage, medium voltage, and low voltage cables.
- Talon® cable cleats include integral stainless steel gripping bolts that are held captive in the base for ease of installation. Talon® cable cleats do not require additional mounting hardware when simultaneously enclosing cable(s) and a ladder-type cable tray rung. Auxiliary mounting holes are included in cable cleat bases for attaching to a channel strut or structural mounting substrate. Mounting hardware kits are normally in stock.



T1 Profile



T3 Profile



Talon Cable Cleats  
Quotation Checklist



Talon Cable Cleats  
in Atkore Virtual Solutions Center



# Talon® Cable Cleats

Figure 2 - Talon® Cable Cleat Dimensional Profiles

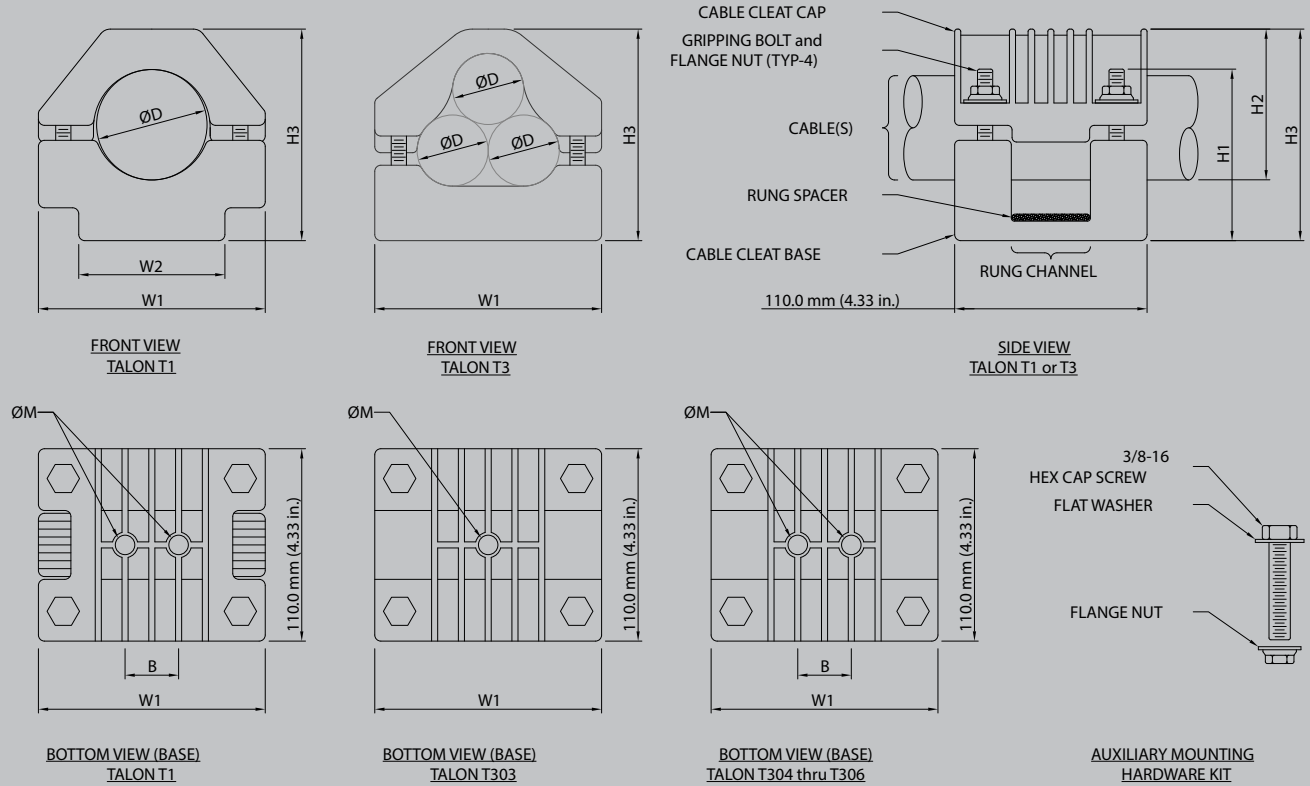


Table 3 - Physical Specifications<sup>1</sup>

Frame Size	H1 Overall Base Height	H2 Height Above Rung <sup>2</sup> [Min - Max]	H3 Overall Height <sup>2</sup> [Min - Max]	W1 Overall Width	W2 Lower Width	$\varnothing M$ Auxiliary Mounting Holes Quantity and Bolt Diameter	B Mounting Hole Spacing	Weight
T1 04	100.1 mm (3.94 in.)	59.6 – 69.3 mm (2.35 – 2.73 in.)	100.1 – 109.8 mm (3.94 – 4.32 in.)	101.6 mm (4.00 in.)	68.1 mm (2.68 in.)	Qty-2 3/8 in. (M10)	23.8 mm (0.94 in.)	0.46 kg (1.02 lbm)
T1 05	119.9 mm (4.72 in.)	69.3 – 97.9 mm (2.73 – 3.85 in.)	119.9 – 138.4 mm (4.72 – 5.45 in.)	126.7 mm (4.99 in.)	79.0 mm (3.11 in.)		30.0 mm (1.18 in.)	0.58 kg (1.27 lbm)
T1 06	133.4 mm (5.25 in.)	92.9 – 126.5 mm (3.66 – 4.98 in.)	133.4 – 167.0 mm (5.25 – 6.57 in.)	156.2 mm (6.15 in.)	110.7 mm (4.36 in.)		30.0 mm (1.18 in.)	0.81 kg (1.79 lbm)
T3 03	90.9 mm (3.58 in.)	75.1 – 91.9 mm (2.96 – 3.62 in.)	116.1 – 132.9 mm (4.57 – 5.23 in.)	130.5 mm (5.14 in.)	n/a	Qty-1 3/8 in. (M10)	n/a	0.54 kg (1.19 lbm)
T3 04	105.1 mm (4.14 in.)	86.3 – 107.8 mm (3.40 – 4.24 in.)	127.3 – 148.9 mm (5.01 – 5.86 in.)	147.8 mm (5.82 in.)	n/a	Qty-2 3/8 in. (M10)	34.0 mm (1.34 in.)	0.64 kg (1.42 lbm)
T3 05	108.0 mm (4.25 in.)	101.4 – 127.9 mm (3.99 – 5.03 in.)	142.4 – 168.9 mm (5.61 – 6.65 in.)	168.4 mm (6.63 in.)	n/a		40.0 mm (1.57 in.)	0.72 kg (1.59 lbm)
T3 06	123.5 mm (4.86 in.)	120.1 – 152.6 mm (4.73 – 6.01 in.)	161.1 – 193.6 mm (6.34 – 7.62 in.)	197.4 mm (7.77 in.)	n/a		36.0 mm (1.42 in.)	0.95 kg (2.09 lbm)

Notes to Table 3:

- For nominal cable cleat dimensions H1, H2, etc., refer to Figure 2.
- "Min" represents the nominal dimension of a Talon® cable cleat (no liner) securing the smallest cable(s) in the cable range. "Max" represents the nominal dimension of a Talon® cable cleat (no liner) securing the largest cable(s) in the cable range. For other dimensions, contact Atkore - Talon.

