



TALON® T3 CABLE CLEAT INSTALLATION GUIDE

HOLD THE CABLES. HUG THE RUNG.®

US Patent 8,757,560 CA Patent 2,806,535 Other Patents Pending

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BEFORE BEGINNING. Read all instructions prior to installation and contact Talon Products with any questions.

Follow all safety measures required for electrical installation. Deenergize cables before installing, maintaining or removing cable cleats.

Recommended tools include work gloves, ratcheting socket wrench and 1/2 in. 6-point socket for Ø5/16 in. hardware, 9/16 in. 6-point socket for Ø3/8 in. hardware, or 3/4 in. 6-point socket for Ø1/2 in. hardware. A tappet wrench, calibrated torque wrench and long sockets may be required.

STEP 1 – INSTALL RUNG SPACER. For installation in ladder-type cable tray, refer to Figure 1. For alternate mounting without ladder-type cable tray (e.g. wall mounting), skip Step 1 since rung spacers are not required. Talon cable cleats accommodate box, elliptical, hat, I-beam, oval, rectangular, round, square and channel strut rung profiles from most cable tray manufacturers. Confirm the combined depth of the rung and rung spacer is 27.4 – 30.0 mm (1.08 – 1.18 in). Refer to Page 2 for rung spacer selection. When using a rung spacer, the rung channel surface should be clean and dry. Remove the adhesive backing and place the neoprene rung spacer in the center of the rung channel area of the cable cleat base. The rung spacer may cover the mounting hole(s) in the rung channel.

STEP 2 – POSITION BASE. Position the cable cleat base below the rung as pictured in Figure 2 such that the rung spacer contacts the rung, and the cable surfaces contact the bottom of the cable(s). If the cable cleat will be used as an intermediate restraint (i.e. not attached to a rung), position the cable cleat base below the bottom of the cables. Rung spacers are not required for intermediate restraints.

For alternate mounting without ladder-type cable tray (e.g. wall mounting), rung spacers are not required. Place customer furnished flat washer inside the base, aligned with the mounting hole. Install customer furnished mounting bolt through washer and mounting hole. Finger-tighten until the bolt head contacts the flat washer; then tighten another ¼ to ½ turn. Repeat bolt installation process for cable cleats with two mounting holes. **DO NOT OVER-TIGHTEN MOUNTING HARDWARE.**

STEP 3 – POSITION CAP AND TIGHTEN. Place the cable cleat cap above the cable(s) and align with the integral gripping bolts as pictured in Figure 3. The gap between the base and cap should remain equal on all corners during installation. If the cables are straight (i.e. aligned with the longitudinal cable cleat axis), finger-tighten each flanged locknut after it engages the surface of the bolt pedestal on the cable cleat cap; then tighten another ½ turn using socket wrench. If cables are bent, additional turns may be required to straighten the cables. **DO NOT OVER-TIGHTEN GRIPPING HARDWARE.** The cables should not be deformed or bulge at either end of the cleat.

- If gripping hardware includes flanged lock nuts, the serrations may slightly impress the surface of the bolt pedestal after tightening.
- If gripping hardware includes flat washers and nylon insert lock nuts, place flat washers on the bolts before installing the locknuts.
- If required for additional vibration resistance, a suitable thread locking compound or hex jam nuts may be used. When using jam nuts, a tappet wrench and torque wrench is required. Hold the previously-tightened flanged locknut in position using a tappet wrench and tighten the jam nut against the flange nut until the desired torque value is reached. The following general guidelines for clean dry threads are provided for reference.
 - Ø5/16 in. → Maximum Torque = 132 in - lbs
 - Ø3/8 in. → Maximum Torque = 236 in - lbs

Notes:

1. Thread galling is a condition that sometimes affects threaded stainless steel hardware. To mitigate the risk of thread galling, **TURN NUT SLOWLY. DO NOT APPLY EXCESSIVE PRESSURE TO NUT. DO NOT USE IMPACT WRENCH. USE SUITABLE THREAD LUBRICANT.** For additional information on thread galling, contact Talon Products.
2. Customer furnished 8mm wide metallic banding may be fastened around Talon T3 cable cleats, if required. **DO NOT OVER-TIGHTEN BANDING.**



Figure 1
Cable Cleat Base with Rung Spacer

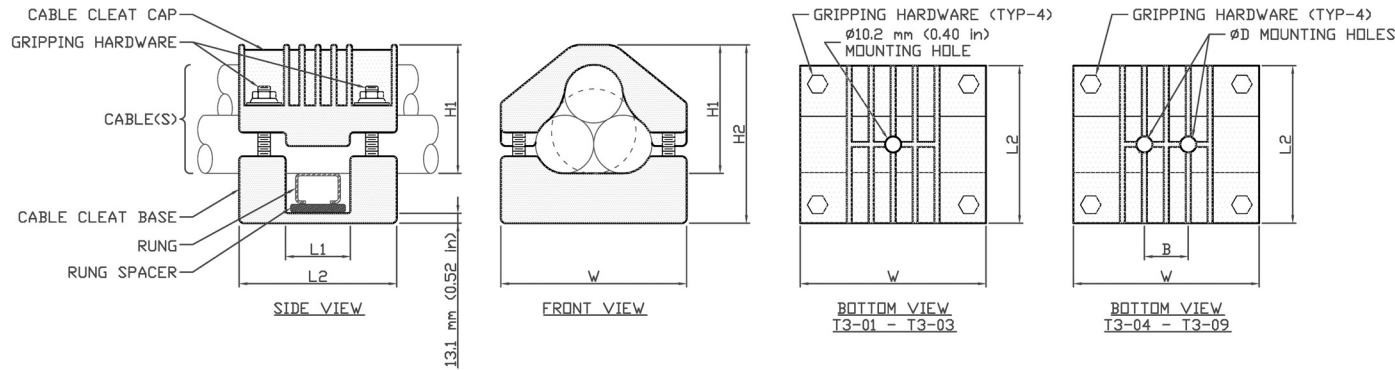


Figure 2
Cable Cleat Base Below Rung



Figure 3
Cable Cleat on Cables and Rung

TALON® T3 CABLE CLEAT INSTALLATION GUIDE (CONTINUED)



Rung or Strut Depth mm (in)	Rung Spacer Thickness mm (in)	Rung Spacer P/N
> 27.4 (1.08)	N/A	R00
26.0 – 27.4 (1.02 – 1.08)	1.6 (0.06)	R05
24.6 – 25.9 (0.97 – 1.02)	3.2 (0.13)	R10
21.7 – 24.5 (0.85 – 0.96)	6.4 (0.25)	R20
18.9 – 21.6 (0.74 – 0.85)	9.5 (0.38)	R30
16.0 – 18.8 (0.63 – 0.74)	12.7 (0.50)	R22
10.2 – 15.9 (0.40 – 0.63)	19.1 (0.75)	R33

Model – Frame Size	Nominal Cable Acceptance Range ¹				Nominal Dimensions							
	Two or Three Cables		Single Cable		H1 Min/ Max ² mm (in)	H2 (Min/ Max) ² mm (in)	W mm (in)	L1 mm (in)	L2 mm (in)	ØD Mounting Bolt Holes mm (in)	B mm (in)	Gripping Bolt Size
	Minimum Cable OD mm (in)	Maximum Cable OD mm (in)	Minimum Cable OD mm (in)	Maximum Cable OD mm (in)								
T3-03	30.0 (1.18)	39.0 (1.54)	47.0 (1.85)	57.0 (2.24)	75.1 (2.96)/ 91.9 (3.62)	116.1 (4.57)/ 132.9 (5.23)	130.5 (5.14)	43.0 (1.69)	110.0 (4.33)	Qty-1 10.2 (0.40)	N/A	Ø5/16-18
T3-04	37.0 (1.46)	47.0 (1.85)	57.0 (2.24)	70.0 (2.76)	86.3 (3.40)/ 107.8 (4.24)	127.3 (5.01)/ 148.9 (5.86)	147.8 (5.82)			Qty-2 10.2 (0.40)	34.0 (1.34)	
T3-05	45.0 (1.77)	58.0 (2.28)	70.0 (2.76)	86.0 (3.39)	101.4 (3.99)/ 127.9 (5.03)	142.4 (5.60)/ 168.9 (6.65)	168.4 (6.63)			40.0 (1.57)		
T3-06	56.0 (2.20)	71.0 (2.80)	86.0 (3.39)	106.0 (4.17)	120.1 (4.73)/ 152.6 (6.01)	161.1 (6.34)/ 193.6 (7.62)	197.4 (7.77)			Qty-2 13.3 (0.52)	36.0 (1.42)	

Notes:

1. Talon T3 cable cleats secure one, two or three cables where all cables have similar outer dimensions. Cable sizes indicate the diameter across the outermost layer of each cable (e.g. over the outer jacket).
2. "Min" represents the nominal dimension of a Talon T3 cable cleat securing two or three of the smallest cables in the cable acceptance range. "Max" represents the nominal dimension of a Talon T3 cable cleat securing two or three of the largest cables in the cable acceptance range. "H1" represents the nominal dimension between bottom of cables (i.e. top of rung) and top of cleat. For dimensions of Talon T3 cable cleats securing single cables, contact Talon Products.