

Rod and Fiber T-Terminal Application Notice

Rod T-terminals are a different design than wire T-terminals. They look similar but they are designed to be used in rod and Kevlar applications which demand higher max working loads. To help identify them they are stamped with a “1” or “2” on the head and have a 01 or 02 in the part number.

Lifespan and Inspection

The Rod T-terminals have a **one year or 10,000 mile lifespan whichever comes first.**

When doing rig inspections terminals require diligent surveying of the sharp bend. Due to its design, they are typically one of the few fittings with a life expectancy dramatically less than the Kevlar, rod or wire. When inspecting the terminals, look for cracks on the inside of the sharp bend as this is a typical spot for fatigue cracking. This is shown in the picture to the right.



Max Working Load

Terminals have the following max working loads and can be used with a 10-20 deg cable angle to the backing plate:

Part Number	Typical use	Max Working Load (lbs)
N741-01-M0412	-4 Rod	1,600
N741-01-M0512	-4 Rod and 3T Kevlar	1,800
N741-01-M0616	-6, -8, -10 Rod	4,200
N741-01-M0718	3.8T,5T Kevlar	4,200
N741-01-M0820	-12, -15, -17 Rod and 7T Kevlar	6,000
N741-01-M1024	9T Kevlar	6,000
N741-02-M1024	-22 Rod and 12T,15T Kevlar	9,100

Warning! Custom Grip Lengths Reduce the Max Working Load

Using a longer custom grip length and our standard N740 backing plate will reduce the max working load from our standard terminals and is **not recommended**. This can be a significant **reduction in strength of 50% or more** depending on the application.

If a custom grip length can't be avoided. The grip length should be minimized as much as possible and custom backing plates made to improve the support of the custom terminals out to the mast wall. When replacing custom terminals check the clearance of the shroud or runner to the mast wall in the loaded position. If it is over 3mm reduce the new grip length to improve the strength and working loads. Call Navtec for max working loads on custom grip terminals.

Runner Application and Winch Sizing

In some cases it is possible to over load the terminals in a runner application. Check the max pull force on the winch used to load the runners. If the winch pull force can exceed the terminals working load a limit for the winch pull force and/or a visual stop on the runners should be added to prevent overloading.

Modification to the T-terminal or backing plate

Modification to the T-terminal and/or backing plate voids the warranty. The Rod or Fiber T-terminal should always be used with the correct size Norseman Gibb backing plate.