

475 CLAIMS

Having described my invention, I claim:

- Claim 1. A method for producing a synthetic cable assembly having a precise and stable length for application across a known distance, comprising:
- a. providing a synthetic tensile member having a first end and a second end;
 - 480 b. providing a first termination on said first end, said first termination having a first attachment reference;
 - c. providing a second termination on said second end, said second termination having a second attachment reference;
 - d. whereby said synthetic tensile member, said first termination, and said second
 - 485 termination are united to form said synthetic cable assembly;
 - e. applying a predetermined tension profile to said synthetic cable assembly in order to set a stable overall length between said first and second attachment references;
 - f. determining said stable overall length between said first and second
 - 490 attachment references; and
 - g. adding a length-adjustment component to said second termination in order to create a third attachment reference so that a length between said first and third attachment references matches said known distance.
- 495 Claim 2. The method for producing a synthetic cable assembly as recited in claim 1, wherein said length-adjustment component comprises an extension link added to said second termination.
- Claim 3. The method for producing a synthetic cable assembly as recited in claim 1,
- 500 wherein said length-adjustment component comprises:
 - a. providing an extended tang on said second termination; and
 - b. providing said third attachment reference on said extended tang.
- 505 Claim 4. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes a thimble with an open center; and
- b. said length-adjustment component comprises a thimble block with a cross bore.

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Claim 5. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes a threaded shaft; and
- b. said length-adjustment component comprises an extension bushing placed on said threaded shaft, with said extension bushing including a bearing surface.

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Claim 6. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes an eye with a first cross bore; and
- b. said length-adjustment component comprises a plug configured to fit in said first cross bore, said plug including an offset second cross bore.

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Claim 7. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes a thimble with an open center; and
- b. said length-adjustment component comprises an extension link connected to said thimble.

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Claim 8. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes a posterior bearing surface; and
- b. said length-adjustment component comprises a bushing installed against said posterior bearing surface.

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Claim 9. The method for producing a synthetic cable assembly as recited in claim 1, wherein:

- a. said second termination includes a posterior bearing surface; and

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540 b. said length-adjustment component comprises a correction block having
an overhang configured to bear against said posterior bearing surface.

Claim 10. The method for producing a synthetic cable assembly as recited in claim 1,
further comprising:
545 a. providing a third and fourth termination between said first and second
terminations; and
 b. attaching said length-adjustment component between said third and
fourth terminations.

Claim 11. A method for producing a synthetic cable assembly having a precise and stable
550 length for application across a known distance, comprising:
 a. providing a synthetic tensile member having a first end and a second
end;
 b. providing a first termination on said first end, said first termination
having a first attachment reference;
555 c. providing a second termination on said second end, said second
termination having a second attachment reference;
 d. whereby said synthetic tensile member, said first termination, and said
second termination are united to form said synthetic cable assembly;
 e. applying multiple pulls to said synthetic cable assembly in order to set
560 a stable overall length between said first and second attachment
references;
 f. determining said stable overall length between said first and second
attachment references; and
 g. adding a length-adjustment component to said second termination in
565 order to create a third attachment reference so that a length between
said first and third attachment references matches said known distance.

Claim 12. The method for producing a synthetic cable assembly as recited in claim 11,
wherein said length-adjustment component comprises an extension link added
570 to said second termination.

- Claim 13. The method for producing a synthetic cable assembly as recited in claim 11,
wherein said length-adjustment component comprises:
- 575 a. providing an extended tang on said second termination; and
b. providing said second attachment reference on said extended tang.
- Claim 14. The method for producing a synthetic cable assembly as recited in claim 11,
wherein:
- 580 a. said second termination includes a thimble with an open center; and
b. said length-adjustment component comprises a thimble block with a
cross bore.
- Claim 15. The method for producing a synthetic cable assembly as recited in claim 11,
wherein:
- 585 a. said second termination includes a threaded shaft; and
b. said length-adjustment component comprises an extension bushing
placed on said threaded shaft, with said extension bushing including a
bearing surface.
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- Claim 16. The method for producing a synthetic cable assembly as recited in claim 11,
wherein:
- a. said second termination includes an eye with a first cross bore; and
b. said length-adjustment component comprises a plug configured to fit in
595 said first cross bore, said plug including an offset second cross bore.
- Claim 17. The method for producing a synthetic cable assembly as recited in claim 11,
wherein:
- a. said second termination includes a thimble with an open center; and
600 b. said length-adjustment component comprises an extension link
connected to said thimble.

- Claim 18. The method for producing a synthetic cable assembly as recited in claim 11,
wherein:
- 605 a. said second termination includes a posterior bearing surface; and
b. said length-adjustment component comprises a bushing installed
against said posterior bearing surface.
- Claim 19. The method for producing a synthetic cable assembly as recited in claim 11,
610 wherein:
- a. said second termination includes a posterior bearing surface; and
b. said length-adjustment component comprises a correction block having
an overhang configured to bear against said posterior bearing surface.
- 615 Claim 20. The method for producing a synthetic cable assembly as recited in claim 11,
further comprising:
- a. providing a third and fourth termination between said first and second
terminations; and
b. attaching said length-adjustment component between said third and
620 fourth terminations.

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