



A Furukawa Company

M-Pack® Cable Installation

1. General Information

- 1.1 This document provides recommendations for M-Pack® cable installation and pulling applications. While every effort has been made to provide a useful installation guide, each installation environment is different and may require procedures not covered in this document. If you have questions or concerns about a particular application, please contact OFS for further information.
- 1.2 While unique properties of the EZ-Bend® Ultra-Bend Insensitive Optical Fiber allow for installation procedures similar to those used for CAT-5 wiring (pulled into conduit, routed through interior walls, and installed around corners without using bend limiters), proper handling is required.
- 1.3 ***M-Pack cordage has a maximum pulling tension of 50 lbs [220N]. Exceeding the maximum load rating may damage the cable.***

2 Attaching a Pull Line to M-Pack Cable

- 2.1 The following procedure should be used to attach M-Pack cable to a hand line or pulling line when installing the cable through interior walls or conduit.

Step 1. Strip off about 12 inches of outer jacket from the M-Pack cable. The outer jacket can be removed using conventional wire strippers (16 AWG for 3.0 mm cable and 12 AWG for the 3.8mm cable), or it can be scored and removed using a buffer tube scoring tool. Cut and remove the exposed 250 µm colored fiber.



Step 2. Twist the aramid strands together into a single bundle, then wrap the aramid around the cordage as shown.



Step 3. Secure the aramid to the cordage with vinyl tape. The cable is now ready for installation.

Step 4. After pulling, cut off the first five (5) feet of cordage. The strain of the pulling may have damaged the fibers. The cable is now ready for termination.



3 Pulling Information

3.1 M-Pack cable should not be pulled around wall studs or floor joists. Instead, slack cable should be pulled forward to that point and fed by hand around the stud or joist.

3.2 Slack cable should be pulled forward by hand starting at the cable reel. Grip the cable(s) by hand and pull slack cable from the reel while laying it on the floor. If the cable pull becomes difficult, or if there is noticeable stretch or deformation of the cable jacket, return to the cable reel and pull additional slack cable from the reel. After laying out the required slack, pull the cable end forward while feeding slack.

Exercise caution if slack cable must be pulled by gripping the outer cable jacket rather than pulling on the aramid strength members. If excessive tension is applied to the outer jacket, the jacket may elongate causing fiber buckling and damage.

3.3 To prevent cable damage, it is recommended that two craftsmen be used to install long lengths of cable – one to pull the cable and one to feed slack cable and tend the cable reels (or Reel-In-Box).

For additional information please contact your sales representative. You can also visit our website at www.ofsoptics.com or call 1-888-FIBER-HELP (1-888-342-3743) from inside the USA or 1-770-798-5555 from outside the USA.

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