EasyRestore Description:

The EasyRestore module disc is constructed from high impact material. The two larger holes on the outer portion of the disc are used for stacking and/or mounting to either the cabinet wall rail or to the concrete cabinet pedestal / pad. All mounting hardware is included for any mounting configuration. Contact us for spare parts.

Specifications

Cable Specification:

1. for Single-mode standard SMF28e G652.D Compliant = 0.01 dB @ 1310 nm for each 100 feet of drop and cabinet interface cable
2. for Single-mode bend insensitive G657.A2&B2 compliant = 0.006 dB @1310 nm for each 100 feet of drop and cabinet interface cable

UPC Connector specification:

ST = 0.35 dB per connector
SC = 0.35 dB per connector
LC = 0.19 dB per connector

Splice Specification:

Splicing drop cable into backbone (recommended 0.03 dB)

No other splicing is initially required. Emergency restoration splicing after an impact event (recommended 0.1 dB) See back of pamphlet for instructions.

INSTRUCTIONS: Emergency splicing of fiber that has been sheared due to a cabinet impact:

1. After cabinet is reset or a new cabinet is installed. Line test the sheared fiber from the connector end(s) to ensure that continuity is still intact.
2. Remove the EasyRestore disc from the old cabinet or its concrete pad location.
3. Place the EasyRestore disc on a flat surface for performing splice operation
4. Resize fiber lead lengths as necessary and re-insert sheared fiber end, back into the EasyRestore unit.
5. Carefully dress the 250 um or 900 um bare fiber, first into the shear blade area of the unit, wrapping it finger tight around the fiber management spool and temporarily secure with a piece of tape.

6. Feed the wound fibers through the shear blade by lifting the blade out of its retainer groove and dressing the fiber into the U-shaped cutting area of the blade. Reset the blade in its retainer groove and while holding the blade coupled fibers with enough tension to ensure that they do not slip out of the blade chamber, secure the fibers in a single layer row. Ensure that all fibers lay flat under the retaining washer as you tighten the screw finger tight so that fibers are snugly secured.
7. Dress the balance of the fibers through the disc chamber.
8. Perform emergency splicing using a fusion splicer or high grade mechanical splice.
9. The emergency splice chamber will hold up to 36 individual fusion splices.
10. Once splicing is complete and fiber is dressed, align holes of the cover to those of the unit and tighten screws to complete the seal.
11. Re-attach the round fan-out block to the cabinet rail system at approximately the same height of the electronics location. Use the ¾" rubber lined clamp, P6013 mounting clamp and ¾" long mounting bolt. Tighten the mounting bolt until the fan-out block is tightly secured to the rail.
12. Re-attach the EasyRestore disc as it was previously mounted (cabinet wall mount or concrete slab mount).
13. If testing is required, test through the unit from the fanned-out connector end, back through the drop cable and through backbone splice. Conduct all testing in accordance with project specifications. **Note:** it may be necessary to have an IT technician disconnect fibers at transmitting locations in order to conduct testing.
14. Plug the fanned out 3.0 mm individual fibers direct into equipment (labeled in pairs – TX1 – TX2 = BL/OR, TX2 – RX2 = GR/BR and so on). With EasyRestore shear protection activated, there is no need for secondary patch cables. If patch cables are desired or required by the project specification, dress the fanned-out fiber into the cross-connect box and plug connectors into the backside of the cross-connect box using industry standard port layout.

Once all has been tested and plugged in, the system should be operational and fully protected against a cabinet strike.

EtherWAN Systems Inc.

Contact:

support@etherwan.com

1-714-779-3800

Installation Guide

CAUTION: WHILE WORKING IN OR AROUND ELECTRICAL EQUIPMENT, OBEY ALL ELECTRICAL SAFETY RULES AT ALL TIMES!

EasyRestore for Fiber System Overview: EasyRestore is a packaged fiber optic shear and cross-connect assembly that protects critical cabling infrastructure from damage due to catastrophic events and eliminates the need for termination bars, patch cables and cross-connect boxes.

Specified Configurations include:

1. Complete kit including: EasyRestore device, pre-attached cabinet interface cable with fiber connectors, and a drop cable for splicing to the infrastructure
2. EasyRestore device with pre-attached cabinet interface cable, for replacement installations

Mounting Configurations:

1. Cabinet Wall Rail Mount (with supplied rail mount bolts and clamps)
2. Cabinet Concrete Pad Mount (with supplied CEAs)

INSTRUCTIONS: EasyRestore System with drop and cabinet interface cable

1. If you have purchased the EasyRestore system as an entire assembly, complete with drop cable and cabinet interface cable, do not take the unit apart for installation.

2. Remove the unit and pre-packaged components.

3. Inventory all parts.

4. Pull the drop cable from the cabinet location to the backbone interface location.

5. Splice the drop cable fiber into the backbone cable in accordance with project specifications and DOT supplied splice details.

6. Mount the EasyRestore disc inside the cabinet according to purchased mounting configuration (wall or concrete pad mount configurations available) ensuring that all bolted down components are tightly secured. No torqueing is necessary.

7. Attach the round fan out block to the cabinet rail system at approximately the same height of the electronics location. Use the ¾" rubber lined clamp, P6013 mounting clamp and ¾" long mounting bolt. Tighten the mounting bolt until the fan out block is tightly secured to the rail. If pad mounting, use rubberized steel "C" clamp to secure cable to pad or incoming conduit.

8. If testing is required, test through the unit from the fanned-out connector end, back through the drop cable and through backbone splice. Conduct all testing in accordance with project specifications.

9. Plug the fanned out 3.0 mm individual fibers direct into equipment (labeled in pairs – TX1 – TX2 = BL/OR, TX2 – RX2 = GR/BR and so on). With EasyRestore shear protection activated, there is no need for secondary patch cables. If patch cables are desired or required by the project specification, dress the fanned out fiber into the cross-connect box and plug connectors into the backside of the cross-connect box using industry standard port layout.

Once all has been tested and plugged in, the system should be operational and fully protected against a cabinet strike.

INSTRUCTIONS: EasyRestore System where drop cable has been installed previously/separately

If you have purchased the EasyRestore device as an independent unit, to be spliced into pre-existing or pre-pulled drop cable:

1. Remove the unit and pre-packaged components.

2. Inventory all parts.

3. Make sure that the drop-cable splicing into the infrastructure is still intact.

4. Connect the cable coming from the EasyRestore into the drop cable through the adapter (the cable adapter should already be in place from the initial installation. If the adapter is damaged or missing, please contact EtherWAN support).

5. Dress the slack fiber in the unit splice chamber fiber management area.

6. Attach the round fan-out block to the cabinet rail system at approximately the same height of the electronics location. With label side facing you, use the ¾" rubber lined clamp, P6013 mounting clamp and ¾" long mounting bolt. Tighten the mounting bolt until the fan-out block is tightly secured to the rail. For pad mount application, add rubberized steel "C" clamp to secure cable to pad or incoming conduit.

7. If testing is required, test through the unit from the fanned-out connector end, back through the drop cable and through backbone splice. Conduct all testing in accordance with project specifications.

8. Plug the fanned out 3.0 mm individual fibers direct into equipment (labeled in pairs – TX1 – TX2 = BL/OR, TX2 – RX2 = GR/BR and so on). With EasyRestore shear protection activated, there is no need for secondary patch cables. If patch cables are desired or required by the project specification, dress the fanned out fiber into a cross-connect box and plug connectors into the backside of the cross-connect box using industry standard port layout.

Once all has been tested and plugged in, the system should be operational and fully protected against a cabinet strike.