CLAIMS:

1. A quick disconnect system for an accessory electrically coupled to a component of an amusement attraction, the quick disconnect system comprising:

a multi-part electrical enclosure comprising a first side, a second side opposite the first side, a relief pass through having a first opening located on the first side, wherein the multi-part electrical enclosure is configured to:

have a first electrical cable coupled to the accessory pass into the multi-part electrical enclosure via the first opening of the relief pass through; and

have a second electrical cable pass into the second side of the multi-part electrical enclosure to enable the first and second cables to be coupled together within the multi-part electrical enclosure,

wherein the relief pass through is configured to provide strain relief to both the first electrical cable and the second electrical cable and to prevent inadvertent disconnection of the accessory from the multi-part electrical enclosure;

wherein the multi-part electrical enclosure comprises a first enclosure comprising a back wall, and a first wall extending away from the back wall, and a second opening located on the back wall for receiving the second electrical cable;

wherein the multi-part electrical enclosure comprises a second enclosure coupled to the first enclosure, the second enclosure comprising a second wall coupled to the first enclosure, wherein the first opening is located on the second enclosure;

wherein the multi-part electrical enclosure comprises a lid coupled to the second wall;

wherein the second enclosure comprises a first flange, and the multi-part electrical enclosure comprises a second flange disposed between the first enclosure and the second enclosure, and the second enclosure is coupled to the first enclosure via a plurality of fasteners disposed through the first and second flanges.

2. The quick disconnect system of claim 1, wherein the first opening is defined by the lid and the second wall and is located on an end of the second enclosure.

3. The quick disconnect system of claim 1, wherein the multi-part electrical enclosure comprises an additional strain relief pass through configured to provide strain relief for an additional cable coupled to an additional accessory.

4. The quick disconnect system of claim 1, wherein the lid is securely coupled to the second enclosure via one or more locking pins to prevent opening of the multi-part electrical enclosure.

5. The quick disconnect system of claim 4, comprising a release tool configured to be inserted into the lid to release the one or more locking pins to enable the lid to be removed from the second enclosure.

6. The quick disconnect system of claim 5, wherein lid is configured to be removed from the second enclosure by sliding it in a first direction.

7. The quick disconnect system of claim 1, wherein the lid is configured to be snapped onto to the second enclosure.

8. The quick disconnect system of claim 1, wherein the multi-part electrical enclosure is configured to maintain the first electrical cable at an angle relative to a direction of insertion of the first electrical cable into the second opening.

9. The quick disconnect system of claim 1, comprising the component,
and the component comprises a ride vehicle or kiosk.

10. The quick disconnect system of claim 1, wherein the multi-part electrical enclosure comprises an electronics circuit board configured to provide a connection point for providing amplified signals or expanded in line capabilities.

11. A multi-part electrical enclosure for electrically coupling an accessory to an amusement attraction, the multi-part electrical enclosure comprising:

a first enclosure, comprising:

a back wall;

a first wall extending away from the back wall; and

a first opening positioned on the back wall and configured to receive a first electrical cable; and

a second enclosure, comprising:

a second wall coupled to the first enclosure;

a lid coupled to the second wall; and

a relief pass through having a second opening defined by both the second wall and the lid, wherein the second opening is configured to receive a second electrical cable coupled to the accessory to enable the first and second cables to be coupled together within the multi-part electrical enclosure;

wherein, the lid is configured to be coupled to the second wall, such that the relief pass through is configured to provide strain relief to the first and second electrical cables to prevent the accessory from being inadvertently disconnected from the multi-part electrical enclosure;

wherein the lid is securely coupled to the second enclosure via a fastener to prevent opening of the multi-part enclosure, wherein the fastener comprises one or more locking pins configured to be released via a release tool.

12. The multi-part electrical enclosure of claim 11, wherein the second enclosure comprises a first flange, and the multi-part electrical enclosure comprises a second flange disposed between the first enclosure and the second enclosure, and the second enclosure is coupled to the first enclosure via a plurality of fasteners disposed through the first and second flanges.

13. The multi-part electrical enclosure of claim 11, wherein the second enclosure is configured to maintain the second electrical cable at an angle relative to a direction of insertion of the first electrical cable into the second opening.

14. A method for rapidly changing an accessory on a component of an amusement attraction, the method comprising:

inserting a release tool into a lid of a multi-part electrical enclosure to release one or more locking pins securely coupling the lid to the multi-part electrical enclosure, wherein a first electrical cable coupled to the accessory passes into the multi-part electrical enclosure via a first opening of a relief pass through on a first side of the multipart electrical enclosure and the first electrical cable is coupled together with a second electrical cable passing through a second opening on a second side of the multi-part electrical enclosure or a wireless adapter within the multi-part electrical enclosure, and wherein the a relief pass through provides strain relief to at least the first electrical cable and prevents the accessory from being inadvertently disconnected from the multi-part electrical enclosure;

removing the lid from the multi-part electrical enclosure; and

disconnecting the first electrical cable coupled to the accessory from the second electrical cable or the wireless adapter.

15. The method of claim 14, comprising:

coupling a third electrical cable coupled to another accessory to the second electrical cable or the wireless adapter; and

securely coupling the lid to the multi-part electrical enclosure.

16. A quick disconnect system for an accessory electrically coupled to a component of an amusement attraction, the quick disconnect system comprising:

a multi-part electrical enclosure comprising a first side, a second side opposite the first side, a pair of flanges disposed between the first side and the second side, and a relief pass through having a first opening located on the first side, wherein the multi-part electrical enclosure is configured to:

have a first electrical cable coupled to the accessory pass into the multi-part electrical enclosure via the first opening of the relief pass through; and

have a second electrical cable pass into the second side of the multi-part electrical enclosure through a second opening on the second side to enable the first and second cables to be coupled together within the multi-part electrical enclosure;

wherein the first side is coupled to the second side via one or more fasteners disposed through the pair of flanges; and

wherein the relief pass through is configured to provide strain relief to both the first electrical cable and the second electrical cable and to prevent inadvertent disconnection of the accessory from the multi-part electrical enclosure.

17. The quick disconnect system of claim 16, wherein the multi-part electrical enclosure comprises a first enclosure comprising a back wall, and a first wall extending away from the back wall, and wherein the second opening is positioned on the back wall.

18. The quick disconnect system of claim 17, wherein the multi-part electrical enclosure comprises:

a second enclosure coupled to the first enclosure, the second enclosure comprising a second wall coupled to the first enclosure; and

a lid coupled to the second wall.

19. The quick disconnect system of claim 18, wherein the first opening is defined by an interface of the lid and the second wall and is located on an end of the second enclosure.

20. The quick disconnect system of claim 18, wherein the pair of flanges comprises a first flange and a second flange, wherein the second enclosure comprises the first flange, and the multi-part electrical enclosure comprises the second flange, and the second enclosure is coupled to the first enclosure via the one or more fasteners disposed through the first flange and the second flange.

21. The quick disconnect system of claim 18, wherein the multi-part electrical enclosure comprises an additional strain relief pass through configured to provide strain relief for an additional cable coupled to an additional accessory.

22. The quick disconnect system of claim 18, wherein the lid is securely coupled to the second enclosure via one or more locking pins to prevent opening of the multi-part electrical enclosure.

23. The quick disconnect system of claim 22, comprising a release tool configured to be inserted into the lid to release the one or more locking pins to enable the lid to be removed from the second enclosure.

24. The quick disconnect system of claim 23, wherein lid is configured to be removed from the second enclosure by sliding it in a first direction.

25. The quick disconnect system of claim 18, wherein the lid is configured to be snapped onto to the second enclosure.

26. The quick disconnect system of claim 16, wherein the multi-part electrical enclosure is configured to maintain the first electrical cable at an angle relative to a direction of insertion of the first electrical cable into the second opening.

27. The quick disconnect system of claim 16, comprising the component, wherein the component comprises a ride vehicle or kiosk.

28. The quick disconnect system of claim 16, wherein the multi-part electrical enclosure comprises an electronics circuit board configured to provide a connection point for providing amplified signals or expanded in line capabilities.

29. A multi-part electrical enclosure for electrically coupling an accessory to an amusement attraction, the multi-part electrical enclosure comprising:

a first enclosure comprising a first opening configured to receive a first electrical cable; and

a second enclosure coupled to the first enclosure, comprising:

a lid; and

a relief pass through having a second opening partially defined by the lid, wherein the second opening is configured to receive a second electrical cable coupled to the accessory to enable the first and second cables to be coupled together within the multi-part electrical enclosure;

wherein the lid is configured to be coupled to the second enclosure such that the relief pass through is configured to provide strain relief to the first and second electrical cables to prevent the accessory from being inadvertently disconnected from the multi-part electrical enclosure; and

wherein the lid is securely coupled to the second enclosure via a fastener to prevent opening of the multi-part enclosure, wherein the fastener comprises one or more locking pins configured to be released via a release tool.

30. The multi-part electrical enclosure of claim 29, wherein the second enclosure comprises a first flange, and the multi-part electrical enclosure comprises a second flange, and the second enclosure is coupled to the first enclosure via one or more fasteners disposed through the first and second flanges.

31. The multi-part electrical enclosure of claim 29, wherein the first enclosure comprises a back wall and a first wall extending away from the back wall, and the second enclosure comprises a second wall coupled to the first enclosure.

32. The multi-part electrical enclosure of claim 31, wherein the second opening is defined by both the second wall and the lid.

33. The multi-part electrical enclosure of claim 29, wherein the second enclosure is configured to maintain the second electrical cable at an angle relative to a direction of insertion of the first electrical cable into the second opening.

34. A method for rapidly changing an accessory on a component of an amusement attraction, the method comprising:

unlocking or releasing a fastener securely coupling a lid to a multi-part electrical enclosure, wherein a first electrical cable coupled to the accessory passes into the multi-part electrical enclosure via a first opening of a relief pass through on a first side of the multi-part electrical enclosure and the first electrical cable is coupled together with a second electrical cable passing through a second opening on a second side of the multi-part electrical enclosure or a wireless adapter within the multi-part electrical enclosure, and wherein the relief pass through provides strain relief to at least the first electrical cable and prevents the accessory from being inadvertently disconnected from the multi-part electrical enclosure;

moving the lid to provide access into the multi-part electrical enclosure; and

disconnecting the first electrical cable coupled to the accessory from the second electrical cable or the wireless adapter.

35. The method of claim 34, wherein the first side is coupled to the second side via one or more fasteners disposed through a pair of flanges disposed between the first side and the second side.