CLAIMS

1. A breakout assembly for use in fiber optic applications comprising:

a housing having a first end and a second end, the housing including a mating member, the mating member including a post member and a securing member;

wherein the housing is configured to house at least a portion of a fiber optic breakout region;

wherein the post member extends from the housing and the securing member extends past at least one side of the post member to define the mating member; and

wherein at least a portion of the securing member is configured and dimensioned to be releasably secured to a mounting member.

2. The assembly of claim 1, wherein the first end of the housing is configured and adapted to house at least a portion of a cable or harness containing a plurality of fiber optic cables or fibers; and

wherein the second end is configured and adapted to house at least a portion of two fiber optic cables or fibers.

3. The assembly of claim 2, wherein the cable or harness is a jacketed multiple fiber cable and the two fiber optic cables or fibers are jacketed single or multiple fiber cables.

4. The assembly of claim 2, wherein the second end is configured and adapted to house at least a portion of six fiber optic cables or fibers; and

wherein the cable or harness is a jacketed twelve-fiber cable and the six fiber optic cables or fibers are jacketed two-fiber cables.

5. The assembly of claim 2, wherein the second end is configured and adapted to house at least a portion of twelve fiber optic cables or fibers; and

wherein the cable or harness is a jacketed twelve-fiber cable and the twelve fiber optic cables or fibers are jacketed single-fiber cables.

6. The assembly of claim 1, wherein the housing is defined by first and second housing structures; and

wherein the first and second housing structures are latched with respect to each other to define the housing.

7. The assembly of claim 1, wherein the mating member is integrally formed from the housing.

8. The assembly of claim 1, wherein the mounting member includes at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot; and

wherein the second portion is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second portion of the slot once the securing member of the mating member has passed through the first portion of the slot.

9. The assembly of claim 2, wherein the cable or harness is a fiber optic cable harness that includes multiple cable segments secured in a bundle.

10. The assembly of claim 1, wherein the housing is molded or over-molded around or over at least a portion of a fiber optic breakout region.

11. The assembly of claim 2, wherein the fiber optic breakout region is pre-molded before the housing is housed over the fiber optic breakout region.

12. The assembly of claim 11, wherein at least one material utilized during the pre-molding process bonds or secures strength members from each of the two fiber optic cables or fibers together at or near the breakout region to strength members of the cable or harness.

13. The assembly of claim 1, wherein the housing is an overmolded housing.

14. The assembly of claim 1, wherein the mounting member with the releasably secured mating member is mounted with respect to or utilized in conjunction with equipment selected from the group consisting of a cable tray, vertical wire manager, rack mount enclosure, overhead cable pathway rack, floor box, multimedia workstation outlet, wall mount enclosure or cabinet, cabinet, rack and zero-U application.

15. The assembly of claim 1, wherein the mounting member includes at least one attachment member that is configured and dimensioned to attach or mount with respect to wires or equipment.

16. The assembly of claim 1, wherein the mounting member includes at least one through hole component that defines a through hole and is configured and dimensioned to allow the mounting member to be mounted to a surface.

17. The assembly of claim 1, wherein the securing member extends past both sides of the post member to define a substantially T-shaped mating member.

18. The assembly of claim 1, wherein the securing member extends radially past the outer sides of the post member.

19. The assembly of claim 1, wherein the securing member extends past at least one side of the post member to define a substantially L-shaped mating member.

20. A method for attaching a breakout assembly to a mounting member comprising:

providing a housing having a first end and a second end, the housing: (i) configured to house at least a portion of a fiber optic breakout region and (ii) including a mating member, the mating member including a post member and a securing member, with the post member extending from the housing and the securing member extending past at least one side of the post member to define the mating member; and

releasably securing the mating member to a mounting member.

21. The method of claim 20, wherein the first end of the housing is configured and adapted to house at least a portion of a cable or harness containing a plurality of fiber optic cables or fibers; and

wherein the second end is configured and adapted to house at least a portion of two fiber optic cables or fibers.

22. The method of claim 20, wherein the mounting member includes at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot; and

wherein the second portion is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second portion of the slot once the securing member of the mating member has passed through the first portion of the slot.

23. In combination:

a fiber optic breakout assembly that includes a housing having a first end and a second end, the housing: (i) configured to house at least a portion of a fiber optic breakout region and (ii) including a mating member, the mating member including a post member and

a securing member, with the post member extending from the housing and the securing member extending past at least one side of the post member to define the mating member;

a mounting member that includes at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot;

wherein the first end of the housing is configured and adapted to house at least a portion of a cable or harness containing a plurality of fiber optic cables or fibers;

wherein the second end is configured and adapted to house at least a portion of two fiber optic cables or fibers; and

wherein the second portion of the at least one slot is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second portion of the slot once the securing member of the mating member has passed through the first portion of the slot.

What is claimed is:

1. A breakout assembly for use in fiber optic applications comprising:

a clamshell housing having a first end and a second end, the clamshell housing including a mating member, the mating member including a post member and a securing member;

wherein the housing is configured to house at least a portion of a fiber optic breakout region;

wherein the post member extends from the housing and the securing member extends past at least one side of the post member to define the mating member;

wherein at least a portion of the securing member is configured and dimensioned to be releasably secured to a mounting member, the mounting member including at least one attachment member: (i) extending from a bottom side of the mounting member, and (ii) adapted to releasably mount with respect to a plurality of physical support media applications that are characterized by differing mounting positions or locations;

wherein a cable or harness containing a plurality of fiber optic cables or fibers extends from the first end of the housing; and

wherein at least two fiber optic cables or fibers extend from the second end of the housing.

2. The assembly of claim 1, wherein the first end of the housing is configured and adapted to house at least a portion of the cable or harness containing the plurality of fiber optic cables or fibers; and

wherein the second end is configured and adapted to house at least a portion of the at least two fiber optic cables or fibers.

3. The assembly of claim 2, wherein the cable or harness is a jacketed multiple fiber cable and the two fiber optic cables or fibers are jacketed single or multiple fiber cables.

4. The assembly of claim 2, wherein the second end is configured and adapted to house at least a portion of six fiber optic cables or fibers; and

wherein the cable or harness is a jacketed twelve-fiber cable and the six fiber optic cables or fibers are jacketed two-fiber cables.

5. The assembly of claim 2, wherein the second end is configured and adapted to house at least a portion of twelve fiber optic cables or fibers; and

wherein the cable or harness is a jacketed twelve-fiber cable and the twelve fiber optic cables or fibers are jacketed single-fiber cables.

6. The assembly of claim 2, wherein the cable or harness is a fiber optic cable harness that includes multiple cable segments secured in a bundle.

7. The assembly of claim 2, wherein the fiber optic breakout region is pre-molded before the housing is housed over the fiber optic breakout region.

8. The assembly of claim 7, wherein at least one material utilized during the pre-molding process bonds or secures strength members from each of the two fiber optic cables or fibers together at or near the breakout region to strength members of the cable or harness.

9. The assembly of claim 1, wherein the housing is defined by first and second housing structures; and

wherein the first and second housing structures are latched with respect to each other to define the housing.

10. The assembly of claim 1, wherein the mating member is integrally formed from the housing.

11. The assembly of claim 1, wherein the mounting member includes at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot; and

wherein the second portion is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second

portion of the slot once the securing member of the mating member has passed through the first portion of the slot.

12. The assembly of claim 1, wherein the housing is molded or over-molded around or over at least a portion of a fiber optic breakout region.

13. The assembly of claim 1, wherein the housing is an overmolded housing.

14. The assembly of claim 1, wherein the mounting member with the releasably secured mating member is mounted with respect to or utilized in conjunction with equipment selected from the group consisting of a cable tray, vertical wire manager, rack mount enclosure, overhead cable pathway rack, floor box, multimedia workstation outlet, wall mount enclosure or cabinet, cabinet, rack and zero-U application.

15. The assembly of claim 1, wherein the mounting member includes a plurality of attachment members, the plurality of attachment members adapted to mount with respect to at least two different wire pitches.

16. The assembly of claim 1, wherein the mounting member includes at least one through hole component that defines a through hole and is configured and dimensioned to allow the mounting member to be mounted to a surface.

17. The assembly of claim 1, wherein the securing member extends past both sides of the post member to define a substantially T-shaped mating member.

18. The assembly of claim 1, wherein the securing member extends radially past the outer sides of the post member.

19. The assembly of claim 1, wherein the securing member extends past at least one side of the post member to define a substantially L-shaped mating member.

20. A method for attaching a breakout assembly to a mounting member comprising:

providing a clamshell housing having a first end and a second end, the clamshell housing: (i) configured to house at least a portion of a fiber optic breakout region and (ii) including a mating member, the mating member including a post member and a securing member, with the post member extending from the housing and the securing member extending past at least one side of the post member to define the mating member; and

releasably securing the mating member to a mounting member, the mounting member including at least one attachment member: (i) extending from a bottom side of the mounting member, and (ii) adapted to releasably mount with respect to a plurality of physical support media applications that are characterized by differing mounting positions or locations;

wherein a cable or harness containing a plurality of fiber optic cables or fibers extends from the first end of the housing after the mating member is releasably secured to the mounting member; and

wherein at least two fiber optic cables or fibers extend from the second end of the housing after the mating member is releasably secured to the mounting member.

21. The method of claim 20, wherein the first end of the housing is configured and adapted to house at least a portion of the cable or harness containing the plurality of fiber optic cables or fibers; and

wherein the second end is configured and adapted to house at least a portion of the at least two fiber optic cables or fibers.

22. The method of claim 20, wherein the mounting member includes at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot; and

wherein the second portion is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second portion of the slot once the securing member of the mating member has passed through the first portion of the slot.

23. In combination:

a fiber optic breakout assembly that includes a clamshell housing having a first end and a second end, the clamshell housing: (i) configured to house at least a portion of a fiber optic breakout region and (ii) including a mating member, the mating member including a post member and a securing member, with the post member extending from the housing and the securing member extending past at least one side of the post member to define the mating member;

a mounting member including: (i) at least one attachment member extending from a bottom side of the mounting member, and (ii) at least one slot having a first portion wider than a second portion, the first portion configured and dimensioned to allow the securing member of the mating member to pass through the first portion of the slot;

wherein a cable or harness containing a plurality of fiber optic cables or fibers extends from the first end of the clamshell housing;

wherein at least two fiber optic cables or fibers extend from the second end of the clamshell housing;

wherein the second portion of the at least one slot of the mounting member is configured and dimensioned to releasably secure the mating member to the mounting member after the housing has moved towards the second portion of the slot once the securing member of the mating member has passed through the first portion of the slot; and

wherein the at least one attachment member of the mounting member is adapted to releasably mount with respect to a plurality of physical support media applications that are characterized by differing mounting positions or locations.