

Claim Listing – U.S. Pat. No. 11,733,466

No.	Claim Limitation
1.P	A fiber optic connector comprising:
1.a.1	a housing having a main body extending between a front end and a rear end and having an opening extending therebetween,
1.a.2	the housing having a top surface and a bottom surface bound by two opposing side surfaces such that a lateral width between the two opposing side surfaces is less than a separation between the top surface and the bottom surface;
1.b.1	two ferrule assemblies disposed within the opening of the housing,
1.b.2	each of the ferrule assemblies comprising a fiber optic ferrule and a ferrule holder to hold the fiber optic ferrule, the fiber optic ferrule extending forwardly of and away from the front end of the ferrule holder;
1.c	two springs, each of the two springs engaging a rearward facing surface of a respective ferrule holder and extending towards the rear end of the housing to bias the ferrule assemblies toward the front end of the housing and retained within the housing;
1.d.1	a crimp body secured to the fiber optic connector having a front end at least partially disposed in the opening at the rear end of the housing,
1.d.2	the crimp body having a rear end forming a singular opening for optical fibers;
1.e	an alignment feature on at least one of the top surface and the bottom surface of the housing configured to guide the fiber optic connector into an adapter; and
1.f	a strain relief boot coupled to the rear end of the crimp body and having a longitudinal opening in continuum with the singular opening of the crimp body through which optical fibers pass.

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2	The fiber optic connector according to claim 1, wherein the alignment feature is positioned rearward of the front end of the housing and extends away from the front end of the housing.
3	The fiber optic connector according to claim 1, further comprising a spring push engaging a rear portion of each of the two springs.
4	The fiber optic connector according to claim 3, wherein the spring push is separate from the crimp body.
5	The fiber optic connector according to claim 3, wherein the spring push engages the rear portion of each of the two springs simultaneously.
6	The fiber optic connector according to claim 1, further comprising an indicia of polarity on the housing.
7.a	The fiber optic connector according to claim 1, further comprising: a crimp band secured around an outer surface of the rear end of the crimp body, and
7.b	wherein the strain relief boot extends rearwardly away from the housing.
8	The fiber optic connector according to claim 1, wherein the top surface of the housing includes a rail receiving portion extending along at least a portion of the housing.
9	The fiber optic connector according to claim 8, wherein the alignment feature includes the rail receiving portion.
10	The fiber optic connector according to claim 6, wherein the rail receiving portion has a dove tail configuration or an undercut configuration to receive a latch component.
11	The fiber optic connector according to claim 7, wherein the latch component is a push-pull mechanism.
12	The fiber optic connector according to claim 1, wherein the front end of the housing fits in a QSFP footprint.

No.	Claim Limitation
13	The fiber optic connector according to claim 1, wherein the crimp body is a two-piece crimp body.
14	The fiber optic connector according to claim 1, wherein the alignment feature includes a vertical alignment feature and a horizontal alignment feature.
15	The fiber optic connector according to claim 1, wherein each of the ferrule assemblies is separated from the other ferrule assembly by a wall between respective ferrule seats of the fiber optic ferrules of each of the ferrule assemblies, the wall extending rearward into the housing and away from each of the respective ferrule seats.
16	The fiber optic connector according to claim 15, wherein there is a gap between a ferrule holder of each of the fiber optic ferrules and the wall.
17	The fiber optic connector according to claim 1, further comprising a lead-in tube attached to each of the ferrule holders, the lead-in tube extending past the rear end of the main body of the housing and configured to avoid leakage of an adhesive inserted into the lead-in tube into the main body.