

Claim Listing – U.S. Pat. No. 11,808,994

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 joined 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 along a height of the main body;
1.b.1	two ferrule assemblies disposed within the opening of the housing, each of the ferrule assemblies comprising a fiber optic ferrule spaced apart from each other along the height and a ferrule holder to hold the fiber optic ferrule,
1.b.2	the fiber optic ferrule in each of the two ferrule assemblies 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	a crimp body secured to the fiber optic connector and having a rear end forming a singular opening for optical fibers;
1.e	a first projection on the top surface and a second projection on the bottom surface of the housing,
1.f	wherein the first projection is of a different size than the second projection; and
1.g	a strain relief boot having a longitudinal opening in continuum with the singular opening of the crimp body through which optical fibers pass.

No.	Claim Limitation
2	The fiber optic connector according to claim 1, wherein the first projection extends longitudinally along the top surface 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 1, wherein the first projection and the second projection determine a correct orientation or polarity of the housing during an insertion into an adapter.
5.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
5.b	wherein the strain relief boot extends rearwardly away from the housing.
6	The fiber optic connector according to claim 1, wherein each of the top surface and the bottom surface has a receiving area for a latch component to secure the fiber optic connector to an adapter.
7	The fiber optic connector of claim 6, wherein the fiber optic connector is configured to receive a push force to insert the fiber optic connector into an adapter or a pull force to release the latch component from the adapter.
8	The fiber optic connector according to claim 1, wherein the front end of the housing fits in a QSFP footprint.
9	The fiber optic connector according to claim 1, wherein the front end of the housing fits in a SFP footprint.
10	The fiber optic connector according to claim 1, wherein the crimp body is located such that the two springs are positioned between a top portion and a bottom portion thereof.

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11	The fiber optic connector according to claim 1, wherein the first projection and the second projection are sized to fit inside respective grooves of an adapter.
12	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 located between the top surface and the bottom surface of the main body of the housing.
13	The fiber optic connector according to claim 12, wherein spring push simultaneously compresses each of the two springs between the crimp body and the first and second ferrule flanges engaged with the wall.
14	The fiber optic connector according to claim 1, wherein the fiber optic ferrule is an angled physical contact (APC) ferrule.
15	The fiber optic connector according to claim 1, wherein the fiber optic ferrule is an ultra-physical contact (UPC) ferrule.