Title (en)

AXIAL PRELOAD FOR DEMOUNTABLE CONNECTORS

Title (de)

AXIALE VORSPANNUNG FÜR LÖSBARE STECKVERBINDUNGEN

Title (fr)

PRÉCHARGE AXIALE POUR CONNECTEURS DÉMONTABLES

Publication

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Application

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Abstract (en)

[origin: WO2016154233A1] The present invention provides a spring bias that is particularly suited for use to preload a low profile ferrule of an optical connector. In one embodiment, the spring bias is effected by a planar flexure (20) external of the connector. The ferrule (11) is coupled to the planar flexure with its longitudinal axis through the center of the planar flexure. The planar flexure (20) is structured with flexure members (26) in a plane that are configured to not create any torque load on the ferrule, or if torque loading is present, insignificant torque load to cause misalignment of the ferrule, when the flexure flexes out of its nominal plane to create an axial preload on the ferrule. In another embodiment, a common yoke (45) is applied to bias planar flexures against a plurality of ferrules (11), wherein a planar flexure is coupled to each ferrule connector. In a further embodiment of the present invention, instead of using planar flexures, a yoke is provided to apply an axial preload to all ferrule connectors coupled to the yoke, by means of a coil spring applied to center of the yoke, external of the ferrule connectors.

IPC 8 full level

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