

said receptacle connector of said trunk connector pair has a socket and provides a downhole optical communication line connection point at an axial location on the interior surface of said socket that is optically coupled with said optical communication line; and said stinger connector of said downhole main connector pair has a cylindrical probe and provides an uphole optical communication line connection point at an axial location on the exterior surface of said probe that is optically coupled with said optical communication line.

21. The well system of claim 20 further comprising:

first and second optical slip rings located at said downhole optical communication line connection point and said uphole optical communication line connection point, respectively.

22. A method for completing a well, the method comprising:

positioning a main completion string in a main wellbore below a junction in the main wellbore, said main completion string defining an interior;

positioning a lateral completion string in a lateral wellbore extending from the junction, said lateral completion string defining an interior;

positioning a wye-shaped junction fitting to engage the main and lateral completion strings so as to

i) establish fluid communication between the interior of said junction fitting and the interiors of said main and lateral completion strings,

ii) establish communication between the surface of the well and the main completion string via a first communication line segment positioned outside the interior of the junction fitting, and

iii) establish communication between the surface of the well and the lateral completion string via a second communication line segment positioned outside the interior of the junction fitting;

wherein establishing communication between the surface of the well and the main completion string via the first communication line segment comprises moving a valve assembly from a first configuration to a second configuration;

wherein the valve assembly comprises:

a port formed through the wall of the wye-shaped junction fitting to form a tapered valve seat adjacent the hollow interior and an opposing opening formed through the exterior surface;

a plug positioned within the opposing opening;

a check ball positioned within the port; and

a spring positioned between the check ball and the plug, wherein the spring urges the check ball against the tapered valve seat;

wherein, in the first configuration, the check ball is seated in the tapered valve seat to fluidically isolate the first communication line segment from the hollow interior;

wherein, in the first configuration, at least a portion of the check ball protrudes into the hollow interior; and

wherein, in the second configuration, the check ball is spaced from the tapered valve seat to place the first communication line segment in fluid communication with the hollow interior.

23. A method for completing a well, the well having a main wellbore and a lateral wellbore, the method comprising:

providing a junction fitting having a generally wye-shaped tubular body formed by a wall and defining a hollow interior, an exterior surface, an uphole end, and downhole main and lateral ends, said uphole end and downhole main and lateral ends being open to said interior;

carrying by said junction fitting a mid portion of a first communication line extending between said uphole end and said downhole main end and a mid portion of a second communication line extending between said uphole end and said downhole lateral end, said mid portions of said first and second communication lines being located completely outside of said interior of said junction fitting;

disposing a main completion string in said main wellbore at an elevation downhole of an intersection of said lateral wellbore and said main wellbore, said main completion string defining an interior and carrying a lower portion of said first communication line; disposing a lateral completion string in said lateral wellbore, said lateral completion string defining an interior and carrying a lower portion of said second communication line; disposing said junction fitting at an intersection of said main wellbore and said lateral wellbore;

coupling said downhole lateral end of said junction fitting to said lateral completion string so that said interior of said junction fitting is in fluid communication with said interior of said lateral completion string and so that said mid portion of said second communication line is connected to said lower portion of said second communication line; coupling said downhole main end of said junction fitting to said main completion string so that said interior of said junction fitting is in fluid communication with said interior of said main completion string and so that said mid portion of said first communication line is connected to said lower portion of said first communication line; disposing a tubing string in said main wellbore uphole of said junction fitting, said tubing string defining an interior and carrying upper portions of said first and second communication lines; and

coupling said uphole end of said junction fitting to said tubing string so that said interior of said junction fitting is in fluid communication with said interior of said tubing string and so that said mid portions of said first and second communication lines are connected to said upper portions of said first and second communication lines;

disposing said main completion string in said main wellbore and coupling said downhole lateral end of said junction fitting to said lateral completion string before disposing said junction fitting at said intersection of said main wellbore and said lateral wellbore; and then

coupling said downhole main end of said junction fitting to said main completion string by moving said junction fitting to said intersection of said main wellbore and said lateral wellbore to mate a main leg connector pair.

24. The method of claim 23 further comprising:

providing first and second longitudinal grooves along said exterior surface of said junction fitting;

disposing said mid portion of said first communication line within said first longitudinal groove; and

disposing said mid portion of said second communication line within said second longitudinal groove.

25. The method of claim 23 further comprising:

disposing said main completion string in said main wellbore and said lateral completion string in said lateral wellbore before disposing said junction fitting at said intersection of said main wellbore and said lateral wellbore; and then

coupling said downhole main end of said junction fitting to said main completion string and

said downhole lateral end of said junction fitting to said lateral completion string by moving said junction fitting to said intersection of said main wellbore and said lateral wellbore to mate a main leg connector pair and a lateral leg connector pair.

26. The method of claim 23 further comprising:

disposing said junction fitting at said intersection of said main wellbore and said lateral wellbore; and then

coupling said uphole end of said junction fitting to said tubing string by running said tubing string into said main wellbore to mate a trunk connector pair.