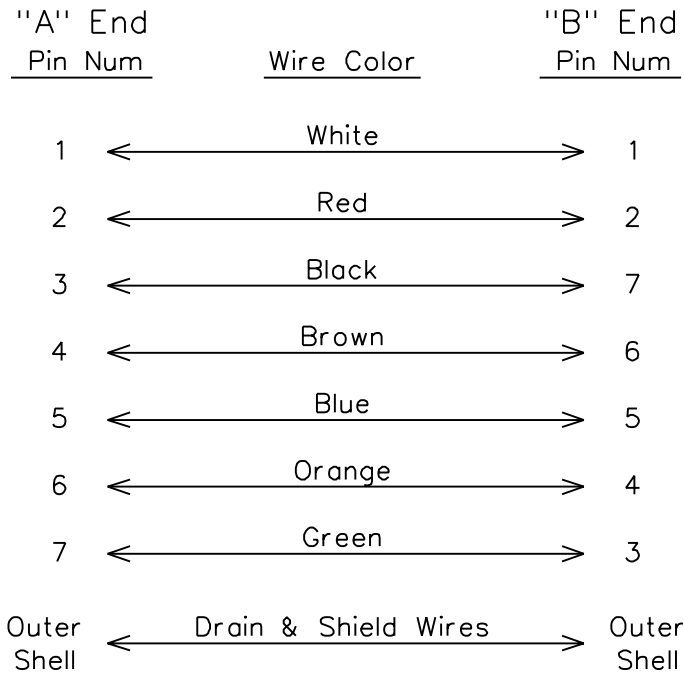


RT JJ Measurement System - Fischer Cables



The two Fischer Cables that run between the Black Switch Box and the QD Probe are made with Alpha Wire type 86107CY cable. This is a fancy "continuous flex" cable with 7 conductors of AWG 26 and an overall shield and drain wire.

The connector at each end is a 7 pin male Fischer Body Size 103 connector. In the Fischer pin numbering system pin number 1 is in the center. The cable's shield and drain wires connect to the body of these connectors (an effective 8th connection) and are thus connected to "Chassis Ground" at each end.

These are not "1 to 1 cables" - rather the wires at each end are soldered into connector pins in their natural order. The pinout of these cables is symmetric, i.e. if pin number "i" at the "A" end runs to pin number "j" at the "B" end then pin number "i" at the "B" end runs to pin number "j" at the "A" end. Thus the ends of a cable may be flipped with no change to the connections.

"A" Pin Runs to "B" Pin

<u>"A" End</u>		<u>"B" End</u>
<u>Pin Num</u>	<u>Wire Color</u>	<u>Pin Num</u>
1	White	1
2	Red	2
3	Black	7
4	Brown	6
5	Blue	5
6	Orange	4
7	Green	3

"B" Pin Runs to "A" Pin

<u>"B" End</u>		<u>"A" End</u>
<u>Pin Num</u>	<u>Wire Color</u>	<u>Pin Num</u>
1	White	1
2	Red	2
3	Green	7
4	Orange	6
5	Blue	5
6	Brown	4
7	Black	3

The center pin, Fischer pin number 1, is the white wire at both ends of the cable.

Because there are an even number of pins in the circle of connector pins (pin numbers 2 through 7), two of them are symmetric and map straight through: pin number 2 Red and pin number 5 Blue.