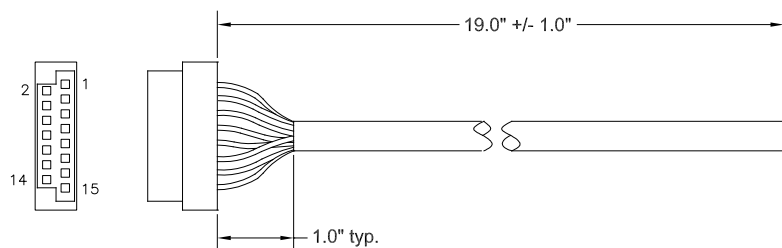


## QM35/QR12 Series Cables

Quantum Devices, Inc. offers several encoders featuring the compact JAE p/n FI-W15P-HFE connector, including the LP12, QR12, JR12, QM35 and QM35 EZ-Comm. For convenience, several cable options are offered with the mating JAE p/n FI-W15S connector. Standard cable lengths are indicated below, and custom cable lengths can be specified by replacing the last three digits with the length in inches (ex: "019" for 19 inches).



Half Meter Cable One End Terminated:

2081AG019 = 14 conductor 28 AWG for differential UVW Commutation

2095AG019 = 11 conductor 28 AWG for single-ended UVW Commutation  
(TTL or open collector)

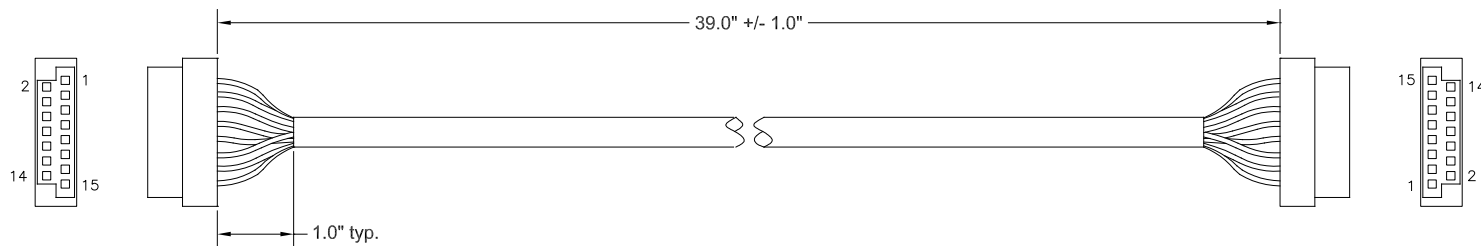
2083AG019 = 8 conductor 28 AWG for non-Commutation

Connector = JAE FI-W15S

Pin Number	Typical Encoder Pin Function	2080AG039 2081AG019 Wire Color	2094AG039 2095AG019 Wire Color	2082AG039 2083AG019 Wire Color
1	A	Brown	Brown	Brown
2	A'	White	White	White
3	B	Blue	Blue	Blue
4	B'	Green	Green	Green
5	Z	Orange	Orange	Orange
6	Z'	Yellow	Yellow	Yellow
7	U	Violet	Violet	-
8	U'	Gray	-	-
9	V	White/Brown	White/Brown	-
10	V'	White/Red	-	-
11	W	White/Orange	White/Orange	-
12	W'	White/Yellow	-	-
13	Vcc	Red	Red	Red
14	GND	Black	Black	Black
15	No Connect	-	-	-

Note:

1. Cable has internal foil shield with 28 AWG drain wire trimmed to jacket edge
2. Unused wires to be locally isolated from adjacent signal wires, Vcc and GND to prevent damage to encoder signals
3. When connected to an encoder with 26C31 Line Driver UVW outputs, a 2094AG039 or 2095AG019 cable provides single-ended TTL UVW signals



One Meter Cable Both Ends Terminated:

2080AG039 = 14 conductor 28 AWG for differential UVW Commutation

2094AG039 = 11 conductor 28 AWG for single-ended UVW Commutation (TTL or open collector)

2082AG039 = 8 conductor 28 AWG for non-Commutation

Connector = JAE FI-W15S