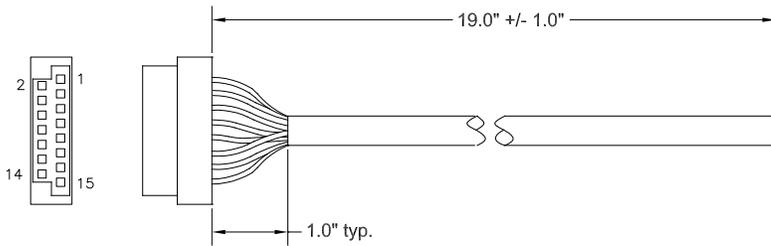


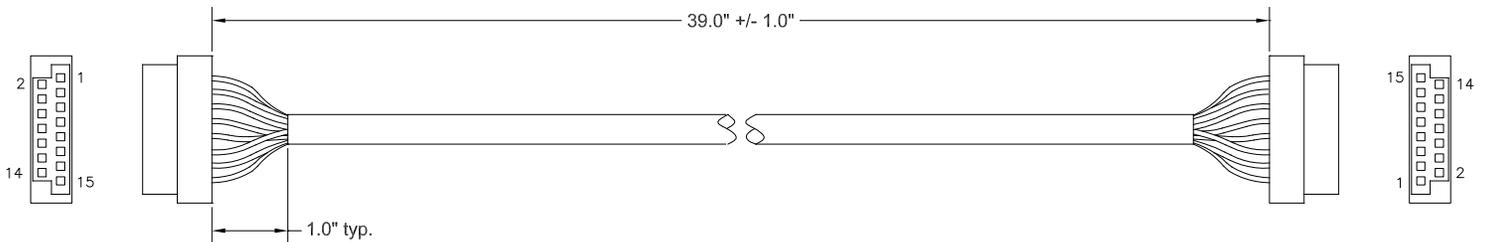
QM35/QR12 Series Cables

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



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

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:

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