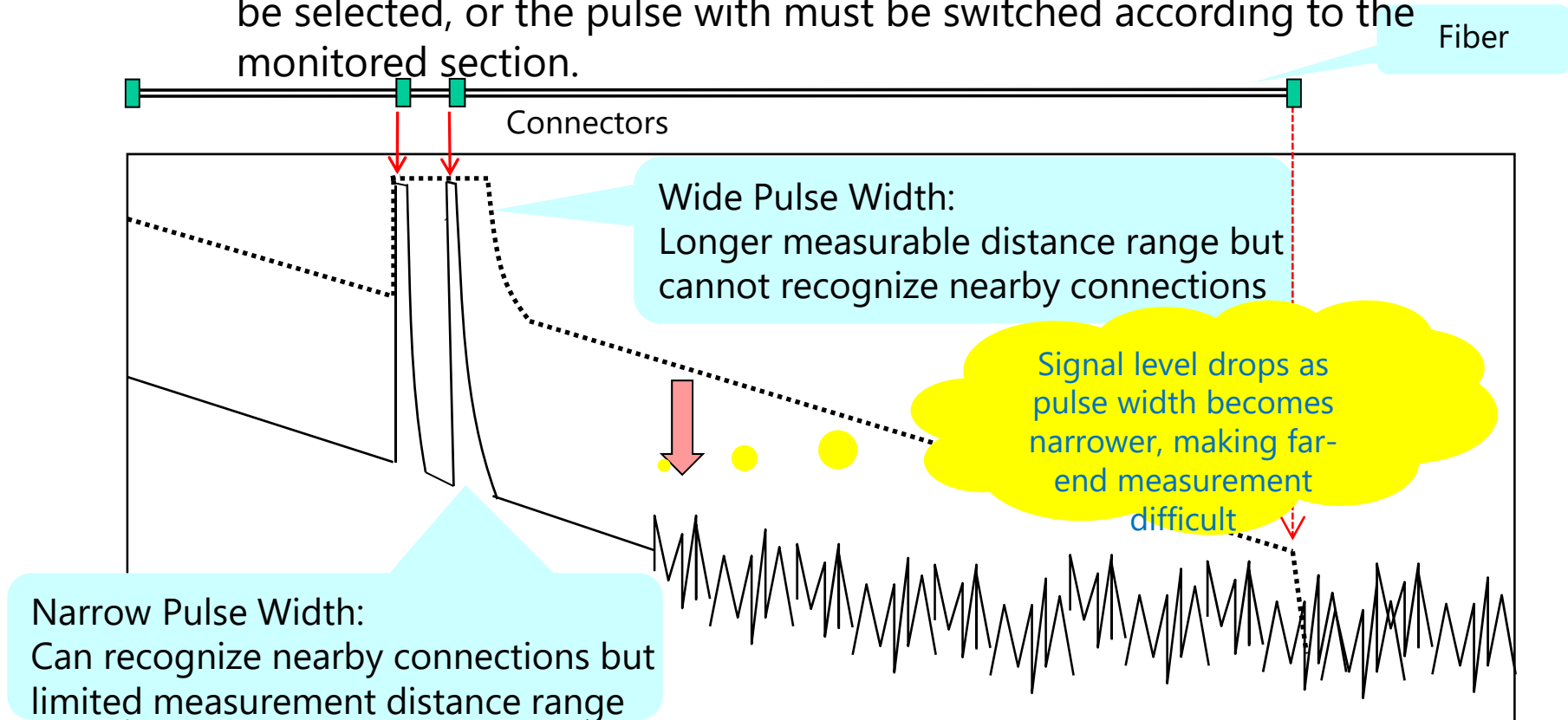


3. Precautions for Data Center Lines (1/2)

Inside: Many connections in short fiber → Require high measurement resolution
Outside: Long distance → Require high dynamic range

However, OTDR pulse settings have the following characteristics and since achieving both high resolution and wide dynamic range is difficult, either the best pulse width matching the line conditions must be selected, or the pulse with must be switched according to the monitored section.



3. Precautions for Data Center Lines (2/2)

Inside lines have many connections over short fiber lengths

- Reflections from poor connector mating
- Reflections from dirty connector mating faces

Large reflections risk lower connection speeds



OTDR-Measurable Reflection Attenuation

SPC Connector: 40 dB min.

UPC Connector: 50 dB min.

APC Connector: 60 dB min.

Poor connection: 25 dB min.