



## RESIDENTIAL FIBER OPTIC CABLE INSTALLATIONS GENERAL GUIDELINES

### SINGLE MODE OR MULTIMODE FIBER?

In most situations, distance determines fiber type. Always verify installation requirements.

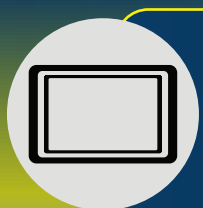
0 - 1000 ft (300 m): MULTIMODE OM3 / OM4

1000 ft (300 m) and above (typical): SINGLE MODE OS2

### HOW MANY FIBER STRANDS?

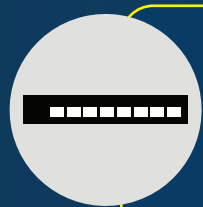
Strand count is project-dependent. These are general guidelines for residential installations.

At a minimum, most installations require two strands of fiber. Adding additional strands is highly recommended!



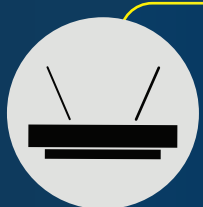
#### EQUIPMENT TO DISPLAYS/PROJECTORS

Minimum: 2 strands  
Preferred: 2 - 4 strands



#### NETWORK SWITCH TO NETWORK SWITCH

Minimum: 2 strands  
Preferred: 4 - 12 strands



#### NETWORK SWITCH TO ACCESS POINT

Minimum: 2 strands



#### A/V RACK TO A/V RACK

Minimum: 2 strands  
Preferred: 4 - 12 strands



#### SECURITY CAMERAS & MEDIA CONVERTERS

Minimum: 2 strands  
Preferred: 2 - 4 strands



#### SERVICE DEMARC OR SATELLITE DISH TO CABLE DISTRIBUTION

Minimum: 2 strands Multimode +  
2 strands Single Mode



#### GENERAL PREWIRE (FUTURE PROOFING)

Minimum: 2 - 6 strands

### WHICH CONNECTOR?

The equipment in use determines connectors. LC or SC connectors are the most common.

Connectors must match fiber type, i.e. single mode connectors must be used with single mode fiber.



↑ MOST COMMON ↓