This design checklist covers the basic questions to be considered before building your LAN bill of materials.

**CABLING**

**Environment**
- Indoor
  - High crush potential – recommend armor or duct
  - Horizontal – requires minimum general rating
  - Floor to floor – requires minimum riser rating
  - Within air-handling spaces – requires minimum plenum rating
- Indoor/Outdoor
  - High crush potential – recommend armor or duct
  - Horizontal – requires minimum general rating
  - Floor to floor – requires minimum riser rating
  - Within air-handling spaces – requires minimum plenum rating
- Outdoor (allowed only 50 ft exposed within building)
  - Direct buried – recommend armor or duct
- Industrial/Mining/Petrochemical/Tactical
  - High crush potential – recommend armor or duct

**Fiber Requirements**
- Existing fiber network?
- What bandwidth needed?
- Fiber distance?
- Fiber type(s): OM1, OM2, OM3, OM4, OS2

**CONNECTIVITY**

**Field Termination Method**
- No-epoxy / No-polish (UniCam®) connectors
- Hand-polished (Anaerobic) connectors
- Fusion splicing pigtails

**Connector Type**
- Existing electronics or patch panels?
  - Adapter style: _____
- New electronics or patch panels (see hardware section)?
  - Adapter style: _____

**EQUIPMENT AND ACCESSORIES**

**Termination**
- Cable fan-out kits (if using loose tube or ribbon cable with connectors)
- Consumables (if fusion splicing or anaerobic connectors)
- Connector tool kit
- Fusion splicer

**Testing**
- End-to-end attenuation testing?
  - Optical test set
- Transmit/receiver levels?
  - Optical test set
- Event loss measurements?
  - Optical Time Domain Reflectometer

**HARDWARE**

**Indoor**
- Rack Mount
  - New rack?
  - New closet connector housing (patch panel housing)?
  - Connector panels?
    - Adapter style (should match connector type): _____
  - Fusion Splicing Pigtails?
    - Splice housing
    - Splice trays
    - Pigtales
    - Heat-shrinks
  - Armored cable?
    - Grounding kit
  - Security needed?
    - Lock kit
- Wall Mount
  - New housing?
  - Connector panels?
    - Adapter style (should match connector type): _____
  - Fusion Splicing?
    - Splice tray holders
    - Splice trays
    - Pigtales
    - Heat-shrinks
  - Armored cable?
    - Grounding kit
  - NEMA rating required?
    - Choose Industrial option
  - Security needed?

**Outdoor**
- Distribution
  - New Environmental Distribution Center?
  - Connector panels?
    - Adapter style (should match connector type): _____
  - Fusion Splicing Pigtails?
    - Splice trays
    - Pigtales
    - Heat-shrinks
  - Armored cable?
    - Grounding kit
  - Security needed?
- Splicing Closures
  - Splices needed?
  - Splice trays
  - Heat-shrinks
  - How many cables are entering/leaving?

Now you’re ready to build your bill of materials. Visit registration.corning.com/T-BOMCL. Need assistance? Call our system engineers at 800-743-2671 and ask for the Technical Support Desk.

Repeat hardware section for every location where splicing or termination occurs.