Local Area Networks (LAN) Design Checklist

Customer Name: _____ Date: _____

Take advantage of this design checklist to guide you through the creation of 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 (up to 50 ft exposed within building)
  - Direct buried – recommend armor or duct

☐ Industrial/mining/petrochemical
  - High crush potential – recommend armor or duct
  - Is it tray-rated?

☐ Micro cable
  - For installation in microduct systems using air-assisted installation methods

Fiber Requirements

☐ Existing fiber network?
☐ Bandwidth requirements?
☐ 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 (anaerobic or UniCam® connectors)

☐ Fusion splicer

Cable Access

☐ Cable access tools (hook blade, pliers, side snips, electrician strips, friction tape, electrical tape, seam ripper, cable cutter, or cable stripper)

Hardware

☐ Indoor
- Rack mountable – closet connector housing (CCH)
  - Rack units needed?
  - Connector panels?
    - Adapter style (should match connector type): _____
- Fusion splicing pigtails?
  - CCH pigtailed cassettes (everything included in one part number – connector panel, splice tray, pigtail, heat-shrinks, and cable ties)
- Armored cable?
  - Grounding kit
- Security needed?
  - Lock kit
- Wall mountable
  - Which wall-mountable housing?
    - Single-panel housing (SPH)
    - Wall-mountable connector housing (WCH)
    - Industrial connector housing (ICH)
  - Connector panels?
    - Adapter style (should match connector type): _____

- Fusion splicing?
  - CCH pigtailed cassettes (WCH only)
  - Splice tray holders
  - Splice trays
  - Pigtails
  - Heat-shrinks
- Armored cable?
  - Grounding kit
- NEMA/IP rating required?
  - Choose industrial option
- Security needed?
  - Lock kit

☐ Outdoor
- Distribution
  - Environmental distribution center (EDC)?
    - Composite construction or stainless steel
    - Cable entry port fittings
  - Connector panels?
    - Adapter style (should match connector type): _____
  - Fusion splicing pigtails?
    - Splice tray holders
    - Splice trays
    - Pigtails
    - Heat-shrinks
  - Armored cable?
    - Grounding kit
  - Security needed?
  - Splicing closures
  - Number of splices needed?
    - Splice trays
    - Heat-shrinks
  - How many cables are entering/leaving?

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

Now it will be easier to create your bill of materials.
To download our Bill-of-Materials Tool, visit http://opcomm.corning.com/1-ENBOMTool.html.
Need assistance? Call our systems engineers at 800-743-2671 and ask for the Technical Support Desk.