

## HG IT SOLUTIONS TECHNICAL LIBRARY

# Structured Cabling Installation Guide

A public, reusable field guide for planning, installation, termination, testing, and handover.

## BEFORE WORK BEGINS

## Plan the installation

Confirm the approved scope, pathways, spaces, cable type, termination hardware, labeling method, test requirements, and handover evidence before materials are opened or cables are pulled.

|                                                                                |                                                                             |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <input type="checkbox"/> Review current drawings and the approved work area    | <input type="checkbox"/> Confirm pathway capacity, separation, and access   |
| <input type="checkbox"/> Verify cable category and component compatibility     | <input type="checkbox"/> Confirm cabinet, patch-panel, and outlet locations |
| <input type="checkbox"/> Agree the labeling convention and identifier register | <input type="checkbox"/> Record constraints, interfaces, and open decisions |

## FIELD CONTROL

## Protect the work area

|                                                                          |                                                                             |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <input type="checkbox"/> Use approved access and permit controls         | <input type="checkbox"/> Protect occupied spaces and nearby services        |
| <input type="checkbox"/> Keep materials clean, dry, and correctly stored | <input type="checkbox"/> Separate removed waste from installation materials |

**Stop and escalate any condition that conflicts with the approved design, safe working method, manufacturer guidance, or applicable project standard.**

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# Installation and Termination

Use this page as a practical field reminder. Project requirements and manufacturer instructions take precedence.

## CABLE INSTALLATION

## Route and handle cable consistently

|                                                                                   |                                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Maintain pathway separation and approved support spacing | <input type="checkbox"/> Protect bend radius and pulling tension        |
| <input type="checkbox"/> Avoid crushing, sharp edges, and unapproved ties         | <input type="checkbox"/> Leave controlled service loops where specified |
| <input type="checkbox"/> Keep bundle size and fill within the approved design     | <input type="checkbox"/> Record route changes for as-built updates      |

## TERMINATION

## Prepare clean, repeatable terminations

|                                                                                      |                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <input type="checkbox"/> Confirm identifier before cutting or terminating            | <input type="checkbox"/> Use compatible tools and termination hardware          |
| <input type="checkbox"/> Preserve pair geometry as close as practical to termination | <input type="checkbox"/> Inspect workmanship before closing the outlet or panel |
| <input type="checkbox"/> Apply labels at both ends using the agreed convention       | <input type="checkbox"/> Update the port and link register as work progresses   |

**Do not hide unidentified or untested links inside the handover package. Exceptions should be clearly recorded and assigned for resolution.**

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# Testing, Documentation, and Handover

Close each link with traceable evidence that supports review and future maintenance.

## QUALITY CHECKS

### Inspect and test

|                                                                                  |                                                                               |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <input type="checkbox"/> Inspect routing, support, dressing, and labels          | <input type="checkbox"/> Verify test equipment status and selected test limit |
| <input type="checkbox"/> Associate every result with the correct link identifier | <input type="checkbox"/> Review failed or marginal results before acceptance  |
| <input type="checkbox"/> Retest corrected links and retain the final record      | <input type="checkbox"/> Protect completed ports and restore the work area    |

## HANDOVER

### Prepare a support-ready record

|                                                                          |                                                           |
|--------------------------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Final link and port schedule                    | <input type="checkbox"/> Approved test results            |
| <input type="checkbox"/> Updated as-built drawings                       | <input type="checkbox"/> Exception and open-item register |
| <input type="checkbox"/> Product and warranty information where required | <input type="checkbox"/> Acceptance and handover record   |

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