

### Pre-installation checklist

- 1. Contractor qualifications verified.
- 2. Project foreman is Belden/CDT installer certified.
- 3. Project foreman has read specifications, and specs to be on-site during work.
- 4. Project foreman is trained and certified to use a Fluke Networks Versiv tester.
- 5. Pre-registration of project with product manufacturers for warranty.
- 6. CAD drawings provided to or obtained by contractor.
- 7. As-built drawings required, keep notes on all changes.
- 8. Review fiber backbone installation requirements and lengths.
- 9. Questions regarding specs or job scope.
- 10. Meet with project foreman and installers and advise on District requirements, expectations and installation checklist.

(i.e. Don't rely solely on drawings; refer to specifications. Carefully follow Belden/CDT installation practices, station ID format & size, no visible or unprotected cable, staggered 7ft. service loops in closet or hallway, slack in cable where conduit meets raceway, no tie-wraps on cable, beware of distances to farthest locations, clear labeling of fiber cable, replace bolts on manhole covers, set cable type in tester correctly, cleanup debris).

Project name Installation Checklist

**Common Items**

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- 1. Specifications on site.
- 2. Project foreman has reviewed specifications
- 3. Only BICSI-certified technicians and installers on job.
- 4. Specified materials to be used on job (10GX12 CMR, 10GX13 CMP).
- 5. CPI racks and cable management delivered.
- 6. Belden copper cable delivered (**CMR / CMP**) – partial
- 7. Data & voice jacks delivered – partial
- 8. Faceplates & other materials delivered – partial
- 9. Drawing being updated for as-built.
- 10. Fluke Versiv to be used is within calibration period.
- 11. Fluke Versiv has latest firmware installed.
- 12. OTDR to be used is within calibration period.
- 13. OTDR has latest firmware installed.

### Final & Closeouts

- 1. Fluke Versiv copper and fiber test results downloaded to PC.
- 2. Sample random station locations checked for proper termination.
- 3. Sample random re-tests done and verified against original.
- 4. Test results CD received (Fluke Versiv copper & fiber, OTDR).
- 5. As-built drawing CD and 2 hardcopy sets received. (May be same CD as test results)
- 6. Framed as-built drawings hung in each Equipment Room
- 7. Belden/CDT warranty received.
- 8. Corning Cable Systems warranty received.

Notes

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**ER –**

- 1. Vertical cable management installed onto racks.
- 2. Racks placed 36" from rear of upright channels to walls, anchored to floor.
- 3. Ladder racks attached to top of racks.
- 4. Ladder racks attached to walls with correct brackets.
- 5. Verify UL labeling on racks and splice components.
- 6. Blank filler panel installed into rack 2, RMU 44/45.
- 7. Horizontal cable management brackets installed in racks, RMU 19/21 & 39/41.
- 8. Rack vertical rails bonded to communications ground bus bar.
- 9. Ladder rack sections bonded by use of straps or UL splices.
- 10. Ladder rack bonded to communications ground bus bar.
- 11. Patch panels installed into rack 2, starting at RMU 36/37.
- 12. Copper cables placed (rough-in) – partial
- 13. Conduit spillways (waterfalls) installed on 2" and 4" conduits where required.
- 14. Service loops placed neatly above racks or in hallway.
- 15. All wall station jacks terminated.
- 16. Station cable sheath labeled.
- 17. Wall faceplates and inserts installed (straight, level).
- 18. Wall faceplates labeled.
- 19. Floorbox jacks terminated and faceplates installed.
- 20. Floorbox faceplates labeled.
- 21. Above-ceiling jacks terminated and correct ceiling faceplates installed.

- 22. Above-ceiling faceplates and ceiling grid labeled.
- 23. Surface raceway faceplates installed.
- 24. Surface raceway faceplates labeled.
- 25. Surface raceway blank faceplates installed where necessary.
- 26. Furniture/table faceplates installed.
- 27. Furniture/table faceplates labeled.
- 28. Dust caps installed on all data jacks (some missing ).
- 29. All cables terminated at patch panels.
- 30. Cables neatly dressed behind racks and within Equipment Room.
- 31. Patch panel cable sheaths labeled.
- 32. Station locations cleaned of debris.
- 33. Equipment Room cleaned of debris.
- 34. Communications and ladder racks cleaned of construction dust.
- 35. Fluke Versiv DSX-5000 cable type set correctly from cable library.
- 36. All cables pass testing with Fluke DSX-5000 with no "marginal" pass.
- 37. All fire-stopping installed to DSA inspector satisfaction.
- 38. 7' Blue patch cords delivered, 12 x \_\_\_ patch panels = (\_\_\_\_\_).
- 39. 10' Blue patch cords delivered, 36 x \_\_\_ patch panels = (\_\_\_\_\_).
- 40. 10' Gray station cords delivered, 48 x \_\_\_ patch panels = (\_\_\_\_\_) - 10% = \_\_\_\_\_.
- 41. 15' Gray station cords delivered, 48 x \_\_\_ patch panels = (\_\_\_\_\_) x 10% = \_\_\_\_\_.
- 42. Network switches patched to panels and neatly dressed.

## Fiber

- 43. Conduit/pathway lengths measured prior to ordering fiber cables.
- 44. Fiber harness cables delivered.
- 45. 1U fiber jumper management panel(s) installed in rack 1, RMU 45.
- 46. 2U fiber housing installed in rack 1, RMU 43/44.
- 47. Fiber systems module(s) installed in fiber housing.
- 48. Fiber harness cables placed, with Muletape installed alongside.
- 49. Fiber harness cable slack placed in CMH, attached to side wall.
- 50. Caution tags placed on fiber harness cables where cables are accessible.
- 51. Fiber harness cable ends identified with label after installation.
- 52. Fiber cables Tier 1 tested with Fluke CeriFiber Pro OLTS.
- 53. Fiber cables Tier 2 tested with Fluke or Corning OTDR.
- 54. Bolts installed on manhole covers opened. Replace bolts if missing.
- 55. **No fiber cable splicing except as noted in specifications Section 271323.**
- 56. **Fiber splices and terminations within tolerances (0.15 dB splice; 0.3dB term.)**
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For any questions / comments, contact:

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