READ THIS FIRST

Notice to the Design Engineer, please refer to the Port of Seattle, Facilities and Infrastructure standards for reference before editing this specification.

This Project Spec Document may need additional modifications to suit your project. It is recommended that you proofread each section, paying attention to any “Notes” boxes such as this one--you should remove these “Notes” sections as you go. Also, do a search for all bracket characters “ [ ] “ as they are used to show you areas containing options or project specific details (you can use Microsoft Word’s Find feature {Ctrl-F} to jump to an open bracket “ [ “ character quickly). Again, these bracket characters should be removed.

It is important that every paragraph be numbered to allow for easy referencing. If you use the document’s built in styles and formatting your outline should be fine (turn on the formatting toolbar by going to View > Toolbars > Formatting). Most paragraphs will use the style “Numbered Material” and can be promoted (Tab) or demoted (Shift-Tab).

You should not have to manually enter extra spaces, carriage returns or outline characters such as A, B, C, or 1.01, 1.02; the formatting will do this for you. The entire document is 11 pt. Arial. If you paste items in, you may need to reapply the “Numbered Material” format.

1. GENERAL
   1. SUMMARY OF WORK
      1. The extent and location of “Port of Seattle Color Code Requirement” Work is shown in the Contract Documents. Section includes: Products and requirements for color coding cables for the Port of Seattle's Communications Infrastructure.
   2. HORIZONTAL CABLE COLOR CODE SYSTEM
      1. The color code system for fixed cable plant, 4-pair horizontal cables shall be per Table 27 05 53.23B-1.

## Table 27 05 53.23B-1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TC/IC TERMINATION TYPE** | **CABLE TYPE** | **CABLE COLOR** | **OUTLET TYPE** | **OUTLET COLOR** | **GENERAL USAGE** | **USE FOR NEW CONSTRUCTION** |
| RJ45 Patch Panel | Category 6 | Red | RJ45 | Red | Data/  Universal | Yes |

* 1. COPPER AND FIBER JUMPER CORD COLOR CODE SYSTEM
     1. The jacket color for copper and fiber jumper cords shall be per Table 27 05 53.23B-2.

## Table 27 05 53.23B-2

|  |  |
| --- | --- |
| **CABLE TYPE** | **CABLE JACKET COLOR** |
| Singlemode Fiber | Yellow |
| Multimode Fiber | Orange |
| Multimode Fiber (used for DDC support system) | Gray with Brown marker tape |
| Cat 5 and 5e | Blue |
| Category 6 | Red |
| Category 6a | Orange |
| Category 7 | Lilac |
| Coax / RF (1/2” diameter or greater) | Black jacket with Green marker tape\* |
| Coax / RF (1/2” diameter or less) | White jacket with Green marker tape\* |
| Coax / CATV | Black jacket with White marker tape\* |
| Coax / CCTV | Black jacket |
| Coax / Wireless Systems (1/2" & 7/8" hardline plenum) | Blue jacket |
| Coax / Wireless Systems (1/2" & 7/8" hardline non-plenum) | Black jacket |
| Reserved | Gray |
| Reserved | Green |
| Special purpose | Sable (Brown) |

\*Marker Tape Color. Black marker tape shall not be used to identify jumper cable purpose. Apply black marker tape as a background “color” when using a system identification marker tape of the same color as the jumper cable. Marker tape color shall be per Table 27 05 53.23B-3.

## Table 27 05 53.23B-3

|  |  |  |
| --- | --- | --- |
| **SYSTEM TYPE** | **SYSTEM** | **MARKER TAPE COLOR** |
| None | None | Black (use for background contrast only) |
| Passenger information systems | Electronic information video display, voice messaging system | Blue |
| Support systems | Master clock, network management system, supervisory control and data acquisition, building management system | Brown |
| Airline operational systems | Common use terminal equipment, gate management, baggage reconciliation. Also, OPSLAN fiber jumpers. | Green |
| Port of Seattle corporate airport systems | Information Technology local area network, maintenance local area network | Gray |
| Passenger service systems | Common use self service | Orange |
| Critical systems | To be determined | Red |
| Wireless access points | All | Violet |
| Voice systems | Telephone, paging, intercom | White |
| Tenant-owned systems | All | Yellow |

* 1. COMMUNICATIONS INNERDUCT COLOR CODE SYSTEM
     1. The communications innerduct color shall be per Table 27 05 53.23B-4.

## Table 27 05 53.23B-4

|  |  |
| --- | --- |
| **INNERDUCT TYPE** | **INNERDUCT COLOR** |
| Plenum | White |
| Riser | Orange |
| General purpose | Orange |
| Outdoor | Orange |

* 1. COMMUNICATIONS CONDUIT COLOR CODE SYSTEM
     1. POS has standardized on the following conduit color codes for communications systems. The color shall be applied with a clearly visible ring of paint on both ends of the conduit, in addition to the conduit connectors. The paint ring shall be 1" width, marked with oil-based primer and oil based paint.

|  |  |  |
| --- | --- | --- |
| **SYSTEMS** | **COLOR** | **FEDERAL STANDARD NO. 595A COLOR CODE** |
| Tel/Data | Orange | 32473 |
| Security/Intercom /Access Control | Pink | 31638 |
| CATV | White | 37886 |
| CCTV | Green | 34138 |
| Paging | Brown | 30140 |
| Controls | Black | 37038 |

1. PRODUCTS - NOT USED

A. If only one product is acceptable (single or sole source product), obtain an approved Competition Waiver and submit to the CPO Construction, Contract Administrator. The language shall read as: “Manufacturer Name, Product # XXXXX, No Equal.” Refer to CPO-6 Competition Waiver Policy for more information.

B. If a Competition Waiver is not approved or more than one product is acceptable, this section must list a minimum of 2 products plus the language “Or Approved Equal,” along with salient characteristics. Refer to CPO Construction’s Salient Characteristics Guidelines for more information.

1. EXECUTION - NOT USED
2. MEASUREMENT & PAYMENT - NOT USED

End of Section

Revision History:

05/01/2014 Conversion to 2004 CSI Numbering System

10/15/2014 Added Sole Source and Salient Characteristics Note to Part 2 and revisions

09/11/2020 Updated Specification per current F&I standards