SECTION 26 05 33.29

SURFACE RACEWAYS FOR ELECTRICAL AND DATA SYSTEMS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

A. The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

1.2 SECTION INCLUDES

A. Floor-based power and data distribution systems.

1.3 RELATED SECTIONS

Specifier Note: In this article, specify work specified in other sections that is related to work of this section.

A. Division 26 - Electrical: Electrical systems and components.

B. Division 27 - Communications: Communications and audio-video systems and components.

Specifier Note: The following paragraph is a sample that may be used in this article. Add to or delete from the following as appropriate for the specific project.

C. Section [xx xx xx] – [Section Title]: [Include brief description of work specified in another section that is related to the work of this section.]

1.4 REFERENCE STANDARDS

A. CSA C22.2 No. 62 - Surface Raceway Systems.

B. NFPA 70 - National Electrical Code (NEC).

C. UL 111 - Outline of Investigation for Multioutlet Assemblies.

D. UL 498 - Attachment Plugs and Receptacles.

1.5 SUBMITTALS

Specifier Note: In this article, specify various types of data to be furnished by the contractor before, during, or after construction. Topics included in this article are product data, shop drawings, samples, design data, test reports, certificates, manufacturers' instructions, manufacturers' field reports, qualification statements, and closeout submittals.

A. Submit under provisions of Section [01 33 00] [_____].

B. Product Data: Submit for floor-based power and data distribution systems.

1.6 QUALITY ASSURANCE

Specifier Note: In this article, describe qualifications, regulatory requirements, certifications, field samples, mock-ups, and pre-installation meetings.

Specifier Note: In the paragraph below, select one of the options for number of years or fill in the blank.

A. Manufacturer Qualifications: Firms regularly engaged in manufacture of floor-based power and data distribution systems of the types and sizes required, whose products have been in satisfactory use in similar service for not less than [five] [10] [____] years.

Provide electrical floor boxes and fittings produced by a manufacturer listed in this section.

B. Comply with requirements of applicable local codes, NEC, UL, ETL, and NEMA standards pertaining to floor-based power and data distribution systems. Receptacle devices comply with NFPA 70 Article 406(E). Electrical components tested to UL 111 standards and UL listed.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver floor-based power and data distribution systems in factory labeled packages.

B. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

C. Protect from damage due to weather, excessive temperature, and construction operations.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis-of-Design Product: The design for floor-based power and data distribution systems is based on Flex® System manufactured by Connectrac, a brand of Legrand, 8707 Chancellor Row, Dallas, Texas 75247; toll-free 877-480-5637; Web Site: www.connectrac.com.

B. Substitutions will be considered under provisions of Section 01 25 00.

2.2 FLOOR-BASED POWER AND DATA DISTRIBUTION SYSTEMS

A. Classification and Use: Floor-based power and data distribution systems shall have been examined and tested by Underwriters Laboratories Inc. to meet UL111 and Canadian Standard C22.2, No. 62 and bear the U.S. and Canadian UL Listing Mark.

B. Entrance Fittings: Quick connectors that power the entire Flex® raceway by converting building main power to Flex® four-circuit power system.

1. In-Wall Entrance Fittings: Fabricated from PC plastic and galvanized steel; listed to UL 111 and CSA 22.2 No. 62 standards; starts at the wall and is used when power/data cabling is running inside wall; attached to a pre-wired flexible steel conduit available in two lengths; flexible conduit includes a 1/2-inch knockout fitting; connects to junction box in wall or ceiling.

   a. In-Wall Entrance Fitting: Part Number CT.A1.1-15.4c; 15-foot pre-wired conduit, four-circuit included.
   b. In-Wall Entrance Fitting: Part Number CT.A1.1-30.4c; 30-foot pre-wired conduit, four-circuit included.

2. Surface-Mounted Entrance Fittings: Fabricated from PC plastic and galvanized steel; listed to UL 111 and CSA 22.2 No. 62 standards; starts at the wall and is used when power/data cabling is running outside wall; attached to a pre-wired flexible steel conduit available in three lengths; flexible conduit includes a 1/2-inch knockout fitting; connects to junction box in wall or ceiling; includes wall channel kit that encases conduit in an aluminum extrusion; color: silver.

a. Surface-Mounted Entrance Fitting: Catalog No. CT.A2.1-02-03.4C; 2-foot wall track, 3-foot pre-wired conduit, four circuits included.
b. Surface-Mounted Entrance Fitting: Catalog No. CT.A2.1-12-15.4C; 12-foot wall track, 15-foot pre-wired conduit, four circuits included.
c. Surface-Mounted Entrance Fitting: Catalog No. CT.A2.1-12-30.4C; 12-foot wall track, 30-foot pre-wired conduit, four circuits included.

3. Raceway Entrance Fittings: Provides transition from wall-mounted raceway systems to either under-carpet or on-floor Flex Raceway systems; cULus Listed Surface Metal Raceway System Fittings File Number E41751; cULus Listed Multioutlet Assembly Fittings File Number E514566.

Specifier's Note: Retain any one of Subparagraphs "a" through "d" as required for a specific project and delete the other three. Always retain Subparagraph "e".

Specifier Note: In the first four (4) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

a. 2400D Series Transition Fitting, Single Channel: Catalog No. [FW][V]2400CT1; fitting designed to transition from 2400D Series raceway to a single Connectrac Flex on-floor or under-carpet raceway; [fog white][ivory] finish; accommodates seven (7) CAT 6 cables.
b. 4000 Series Transition Fitting, Single Channel: Catalog No. [G][V]4000CT1; fitting designed to transition from 4000 Series raceway to a single Connectrac Flex on-floor or under-carpet raceway; [gray][ivory] finish; accommodates 7 CAT 6 cables.
c. 4000 Series Transition Fitting, Dual Channel: Catalog No. [G][V]4000CT2; fitting designed to transition from 4000 Series raceway to a two-channel Connectrac Flex on-floor or under-carpet raceway; [gray][ivory] finish; accommodates 28 CAT 6 cables.
d. 4000 Series Transition Fitting, Triple Channel: Catalog No. [G][V]4000CT3; fitting designed to transition from 4000 Series raceway to a three-channel Connectrac Flex on-floor or under-carpet raceway; [gray][ivory] finish; accommodates 7 CAT 6 cables.
e. Raceway Entrance Fitting: Catalog No. CT.A2.2-0003.4C; 3-inch flexible conduit; four-circuit; used with both 2400D and 4000 Series transition fittings.

4. Poke-Thru Entrance Fittings: Provides an interface for 4-circuit power feed and 18 CAT 6 data cables; compatible with both under-carpet and on-floor Flex Raceway system; four (4) inch [102 mm] diameter body; two (2) hour fire rated; UL Listed metallic outlet box File Number E2961, Guide QCIT; cULus Listed Multioutlet Assembly Fittings File Number E514566, Guide PVUR/PVUR7.

a. Poke-Thru Transition for Connectrac Flex: Catalog No. CTPT4; designed to integrate with Connectrac Flex on-floor or under-carpet raceway; provides power and data channels for separation of services within poke-thru and provides two (2) hour fire rating.

Specifier Note: Retain as many of the following subparagraphs as required for a specific project and delete the others.

b. Under-Carpet Poke-Thru Entrance Fitting, Powertrac: Catalog No. CTFXP; pairs with Poke-Thru Transition CTPT4; includes all elements necessary for

a 13-inch [330 mm] starter section – entrance fitting for Powertrac, under-carpet transition ramps and under-carpet raceway cover.

Specifier Note: In the following four (4) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

c. On-Floor Poke-Thru Entrance Fitting, Powertrac: Catalog No. CTONP-[SV][DG]; attaches to Poke-Thru Transition CTPT4; used to start Connectrac Flex over floor; includes all ramps necessary for a 13-inch [330 mm] starter section; [silver][dark gray] finish.
d. On-Floor Poke-Thru Entrance Fitting, Datatrac: Catalog No. CTOND-[SV][DG]; attaches to Poke-Thru Transition CTPT4; adds additional communication channels to over floor poke-thru transition; installs on left or right side of poke-thru entrance fitting; [silver][dark gray] finish.
e. In-Carpet Poke-Thru Entrance Fitting, Powertrac: Catalog No. CTMXP-[SV][DG]; attaches to Poke-Thru Transition CTPT4; used to start Connectrac Flex for in-carpet installations; adds additional data cable capacity by using a taller cover which is exposed through carpet with under-carpet transition ramps; includes all ramps necessary for a 13-inch [330 mm] starter section; [silver][dark gray] finish.
f. In-Carpet Poke-Thru Entrance Fitting, Datatrac: Catalog No. CTMXD-[SV][DG]; adds additional communication channels to poke-thru transition with in-carpet entrance fitting; installs on left or right side of poke-thru entrance fitting; [silver][dark gray] finish.
g. Under-Carpet Poke-Thru Entrance Fitting, Datatrac: Catalog No. CTFXD; adds additional communication channels to under-carpet poke-thru transition; installs on left or right side of poke-thru entrance fitting.

5. Base Trim: Fabricated from PC plastic; covers hole in the wall and is placed at entrance of raceway; provided with entrance fittings; color: dark gray.

a. Base Trim 1: Part Number CT.AC-BTR1.1-DG; accessory for single-channel raceway.
b. Base Trim 2: Part Number CT.AC-BTR2.1-DG; accessory for double-channel raceway.
c. Filler Accessory: Part Number CT.AC-BTR2F.1-DG; expands to accommodate three or more channels.

6. Data Channel Wall Track: Fabricated from PC plastic and extruded aluminum; listed to UL 111 and CSA 22.2 No. 62 standards; extruded aluminum encasement that sits on the outside of a wall and connects to a data track; used to cover data cables that enter from the building; color: silver.

a. 2-Foot Raceway Wall Track: Walltrac Part Number CT.B.WT.1-02-SV; surface-mounted top cover and data track.
b. 12-Foot Raceway Wall Track: Walltrac Part Number CT.B.WT.1-12-SV; surface-mounted top cover and data track.

C. Raceway:

1. Power Tracks: Fabricated from PC plastic and galvanized steel; listed to UL 111 and CSA 22.2 No. 62 standards; pre-wired raceway segments that are paired with

top covers and transition ramps to make a complete system; power tracks have modular connectors on each end that snap into an entrance fitting, power track extender, power track corner, power hub, or power end hub to assemble the raceway.

a. 2-Foot Raceway Power Track: Powertrac Part Number CT.B.PT.4c.1-02; pre-wired straight segment; four circuit.
b. 3-Foot Raceway Power Track: Powertrac Part Number CT.B.PT.4c.1-03; pre-wired straight segment; four circuit.
c. 4-Foot Raceway Power Track: Powertrac Part Number CT.B.PT.4c.1-04; pre-wired straight segment; four circuit.
d. 5-Foot Raceway Power Track: Powertrac Part Number CT.B.PT.4c.1-05; pre-wired straight segment; four circuit.
e. 6-Foot Raceway Power Track: Powertrac Part Number CT.B.PT.4c.1-06; pre-wired straight segment; four circuit.

2. Power Hubs: Fabricated from PC plastic; listed to UL 111 and CSA 22.2 No. 62 standards; provides access to power devices, such as a receptacle device; includes modular connectors on each end that snap into a power track or power track extender to assemble the raceway.

   a. Raceway Power Hub: Part Number CT.B.PH.4c.1; device connection point and power track coupler, four-circuit.

3. Power End Hubs: Fabricated from PC plastic; listed to UL 111 and CSA 22.2 No. 62 standards; must be used to end every Flex® raceway; provides access to power devices, such as a receptacle device; includes a modular connector on one end that snaps into a power track or power track extender.

   a. Raceway Power End: Part Number CT.B.PHE.4c.1; required to finish a powered run, four-circuit.

4. Power Track Extenders: Fabricated from PC plastic; listed to UL 111 and CSA 22.2 No. 62 standards; adds six (6) inches to a standard power track length; includes a modular connector on one end that snaps into a power track or power track extender; other end has a modular connectors that connect to an entrance fitting, hub, or end hub; color: dark gray.

   a. 0.5-Foot Raceway Power Track Extender: Part Number CT.B.PT.4c-EXT.1-0.5; six (6) inch power track raceway extension, four-circuit.

5. Power Track Corners: Fabricated from PC plastic; listed to UL 111 and CSA 22.2 No. 62 standards; connects power tracks at a 90-degree angle; includes modular connectors at each end that snap into a power track or power track extender to assemble the raceway; color: dark gray.

   a. Raceway Power Track Corner: Flex (FX)/FLEX-ON (ON) Under-Carpet and On-Floor Powertrac Corner Part Number CT.B.PT.4c-C90.1-FX; 90-degree corner top cover and bottom, four-circuit.

b. Raceway Power Track Corner FLEX-MAX: Visible Powertrac Corner Part Number CT.B.PT.4c-C90.1-OM-DG; 90-degree corner top cover and bottom, four-circuit.

6. Top Cover - Under Carpet (FX) Raceway: Fabricated from aluminum; conceals and protects power tracks, power track extenders, and data tracks; top covers for under-carpet system are hidden under the carpet tile; color: silver.

   a. 3-Foot Top Cover: Part Number CT.01-TC-FX.1-03; FLEX/EXPRESS.

7. Top Cover - On-Floor (ON) Raceway: Fabricated from aluminum; conceals and protects power tracks, power track extenders, and data tracks; top covers for on-floor system are visible on top of flooring surface.

Specifier Note: In the following two (2) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

   a. 3-Foot Top Cover: Part Number CT.01-TC-ON.2-03-[DG][SV]; FLEX-ON; [dark gray][silver].
   b. 6-Foot Top Cover: Part Number CT.01-TC-ON.2-06-[DG][SV]; FLEX-ON; [dark gray][silver].

8. Top Cover - Max (MX) Raceway: Fabricated from aluminum; conceals and protects power tracks, power track extenders, and data tracks; top covers for MX-floor system are visible while the ramps are hidden.

Specifier Note: In the following two (2) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

   a. 3-Foot Top Cover: Part Number CT.01-TC-OM.1-03-[DG][SV]; FLEX-MAX; [dark gray][silver].
   b. 6-Foot Top Cover: Part Number CT.01-TC-OM.1-06-[DG][SV]; FLEX-MAX; [dark gray][silver].

9. Transition Ramps - Under Carpet (FX) Raceway: Fabricated from MDF; sit adjacent to power tracks or data tracks and provides an ADA transition from the raceway to the surrounding flooring.

   a. 3-Foot Side Ramp: Part Number CT.02-FM-SRS.1-03; FLEX/FLEX-MAX; (2) three-foot sets; six (6) linear feet/three (3) feet per side.
   b. 6-Foot Side Ramp: Part Number CT.02-FM-SRS.1-06; FLEX/FLEX-MAX;(2) six-foot sets; 12 linear feet/six (6) feet per side.

10. Corner Ramps - Under Carpet (FX) Raceway: Fabricated from PC plastic; sit adjacent to power and data corners and helps to transition from flooring material from the raceway to the surrounding flooring; color: dark gray.

    a. Corner Ramp: Part Number CT.02-FM-C90.1; FLEX/FLEX-MAX/EXPRESS; 90-degree corner ramp.

11. End Ramps - Under Carpet (FX) Raceway: Fabricated from PC plastic; sit at the end of power tracks or data tracks and help to transition from flooring material from the raceway to the surrounding flooring; color: dark gray.

    a. End Ramp: Part Number CT.02-FM-ER.1; FLEX/FLEX-MAX/EXPRESS; end of raceway transition ramp.
    b. End Ramp Filler: Part Number CT.02-FM-ERF.1; FLEX/FLEX-MAX/EXPRESS; raceway filler piece for ganging raceways.

12. Transition Ramps - On-Floor (ON) Raceway: Fabricated from aluminum; sits adjacent to power tracks or data tracks and provides an ADA transition over the raceway; paired with on floor top cover.

Specifier Note: In the following two (2) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

    a. 3-Foot Raceway Top Cover and Side Ramp: Part Number CT.B.RCR-ON.2-03-[DG][SV]; FLEX-ON; three (3) foot raceway top cover and (2) three (3) foot side ramps; color: [dark gray][silver].
    b. 6-Foot Raceway Top Cover and Side Ramp: Part Number CT.B.RCR-ON.2-06-[DG][SV]; FLEX-ON; six (6) foot raceway top cover and (2) six (6) foot side ramps; color: [dark gray][silver].

13. Corner Ramps - On-Floor (ON) Raceway: Fabricated from PC plastic; sit adjacent to power and data corners and provides an ADA compliant transition over the raceway; color: dark gray.

    a. Corner Ramp: Part Number CT.02-ON.2-C90-DG; FLEX-ON; 90-degree corner ramp; color: dark gray.

14. End Ramps - On-Floor (ON) Raceway: Fabricated from PC plastic; sit at the end of power tracks or data tracks and help to transition the flooring material from the raceway to the surrounding flooring; color: dark gray.

    a. End Ramp: Part Number CT.02-ON.2-ER-DG; FLEX-ON; end of raceway transition ramp.
    b. End Ramp Filler: Part Number CT.02-ON.2-ERF-DG; FLEX-ON; raceway filler piece for ganging raceways.

15. Data Channels - Under Carpet (FX) Raceway: Fabricated from aluminum; facilitates the ganging of data channels alongside the main Flex® raceway to provide additional data capacity; includes both a bottom data track and a top cover; each data channel holds 10 cables.

    a. 3-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD.1-FX-03; FLEX.
    b. 6-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD.1-FX-06; FLEX.

16. Data Channels - On-Floor (ON) Raceway: Fabricated from aluminum; facilitates ganging of data channels alongside the main Flex® raceway to provide additional

data capacity; includes both a bottom data track and a top cover; each data channel holds up to 10 cables.

Specifier Note: In the following two (2) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

a. 3-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD-ON.2-03-[DG][SV]; FLEX-ON; color: [dark gray][silver].
b. 6-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD-ON.2-06-[DG][SV]; FLEX-ON; color: [dark gray][silver].

17. Data Channels - On-Floor (MX) Raceway: Fabricated from aluminum; facilitates the ganging of data channels alongside the main Flex® raceway to provide additional data capacity; includes both a bottom data track and a top cover; each data channel holds up to 18 cables.

Specifier Note: In the following two (2) subparagraphs select finish color required and delete the other one in both the catalog number and description. Delete the brackets [ ] around the retained finish.

a. 3-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD.1-OM-03-[DG][SV]; FLEX-MAX; color: [dark gray][silver].
b. 6-Foot Data Track and Raceway Top Cover: Part Number CT.B.RCD.1-OM-06-[DG][SV]; FLEX-MAX; color: [dark gray][silver].

18. Data Corners - Under Carpet (FX)/On-Floor (ON) Raceway: Fabricated from PC plastic; connects data tracks at a 90-degree angle; sits alongside the power track, either on the inside or outside; color: dark gray.

a. Raceway Data Track Corner: Datatrac Part Number CT.B.DT.1-C90-FX; FLEX/FLEX-ON/EXPRESS; 90-degree corner top cover and bottom.

19. Data Corners – Visible Top Cover (MX) Raceway: Fabricated from PC plastic; connects data tracks at a 90-degree angle; sits alongside the power track, either on the inside or outside; color: dark gray.

a. Raceway Data Track Corner: Datatrac Part Number CT.B.DT.1-C90-OM-DG; FLEX-MAX; 90-degree corner kit.

D. Power Devices:

1. Hubcaps: Fabricated from cast aluminum with powder coated finish; listed to UL 111 and CSA 22.2 No. 62 standards; power devices snap into any power hub or power end hub; interchangeable and can be hot-swapped; power device that creates a walkable surface and makes power accessible for future needs; color: dark gray.

a. Device Hubcap - Under Carpet (FX) Raceway: Part No. CT.C.DHC.1-FX-DG; FLEX; covers raceway in lieu of device.
b. Device Hubcap - On Floor (ON) Raceway: Part No. CT.C.DHC-ON.2-DG; FLEX-ON; covers raceway in lieu of device.

c. Device Hubcap - Max (MX) Raceway: Part No. CT.C.DHC.1-OM-DG; FLEX-MAX; covers raceway in lieu of device.

2. Receptacle Devices: Fabricated from PC plastic; listed to UL498, UL 111 and CSA 22.2 No. 62 standards; power devices snap into any power hub or power end hub; interchangeable and can be hot-swapped; NEMA 5-20R quad power receptacle device available in a single/split circuit with four (4) circuit options; color: dark gray.

a. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q11-DG; one (1) 20-amp quad outlet, all circuit one.
b. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q12-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) circuit 2.
c. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q14-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) circuit four.
d. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q22-DG; one (1) 20-amp quad outlet, all circuit two.
e. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q33-DG; one (1) 20-amp quad outlet, all circuit three.
f. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q34-DG; one (1) 20-amp quad outlet, two (2) circuit three, two (2) circuit four.
g. Power Device 1 - Receptacle: Part No. CT.C.PW1.1-Q44-DG; one (1) 20-amp quad outlet, all circuit four.
h. Power Device 1 - Title 24 Receptacle: Part No. CT.C.PW1cc.1-Q12-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) control circuit two.
i. Power Device 1 - Title 24 Receptacle: Part No. CT.C.PW1cc.1-Q14-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) control circuit four.
j. Power Device 1 - Title 24 Receptacle: Part No. CT.C.PW1cc.1-Q34-DG; one (1) 20-amp quad outlet, two (2) circuit three, two (2) control circuit four.
k. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ11-DG; one (1) 20-amp quad outlet, all circuit one.
l. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ12-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) circuit 2.
m. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ14-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) circuit four.
n. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ22-DG; one (1) 20-amp quad outlet, all circuit two.
o. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ33-DG; one (1) 20-amp quad outlet, all circuit three.
p. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ34-DG; one (1) 20-amp quad outlet, two (2) circuit three, two (2) circuit four.
q. Power Device 1 - Tamper Resistant Receptacle: Part No. RDTRQ44-DG; one (1) 20-amp quad outlet, all circuit four.
r. Power Device 1 - Title 24 Tamper Resistant Receptacle: Part No. RDTRCQ12-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) control circuit two.
s. Power Device 1 - Title 24 Tamper Resistant Receptacle: Part No. RDTRCQ14-DG; one (1) 20-amp quad outlet, two (2) circuit one, two (2) control circuit four.
t. Power Device 1 - Title 24 Tamper Resistant Receptacle: Part No. RDTRCQ34-DG; one (1) 20-amp quad outlet, two (2) circuit three, two (2) control circuit four.

3. Hardwire Devices: Fabricated from PC plastic and powder coated steel; power devices snap into any power hub or power end hub; interchangeable and can be hot-swapped; four (4) circuit monument that can be wired to connect to most furniture base feeds or other similar applications; device is not intended to have electrical components such as power outlets/faceplates/switches, mounted directly to it; color: dark gray.

    a. Power Device 2 - Hardware Monument: Part No. CT.C.PW2.4c.1-DG; connects to furniture base feed, four (4) circuit.
    b. Power Device 2 - Hardware Monument: Part No. FF1C-DG; EXPRESS connects to furniture base feed, single (1) circuit.

4. Grommets: Fabricated from PC plastic and TPE plastic; data devices snap into a power track or data track; can be installed anywhere on raceway but best when located next to power devices; grommet allows cables to enter/exit raceway; color: dark gray.

    a. Data Device 1 - Grommet: Powertrac & Datatrac: Part No. CT.C.D1F.1-DG; floor raceway cable pass-thru.

5. Data Devices: Fabricated from PC plastic; data devices snap into a power track or data track; can be installed anywhere on raceway but best when located next to power devices; the system's main data device is customizable and fits up to eight low-voltage keystone modules; color: dark gray.

    a. Data Device 2 - Data Device: Part No. CT.C.DT2.1-DG; fits up to eight keystone modules.

6. A/V Devices: Fabricated from powder coated steel; data devices snap into a power track or data track; can be installed anywhere on raceway but best when located next to power devices; an A/V device is customizable data device that holds any standard double-gang faceplate; color: dark gray.

    a. Data Device 3 - AV Device: Part No. CT.C.DT3.1-DG; holds any standard double-gang faceplate.

E. Accessories:

1. Vertical Wire Managers: Fabricated from PC plastic; seamlessly snaps to receptacle and data devices for easy cable management; can be adjusted to fit either long or short way on a device and slides to cover area devices; accommodates work surfaces between 30 and 48 inches in height off the floor; color: dark gray.

    a. Vertical Wire Management Accessory: Part No. CT.AC-WMV.1-DG; creates flexible pathway from raceway device to furniture.

2. Rough-In Frames: Fabricated from galvanized steel; used in a building during construction; put in place prior to the wall being constructed; marking the placement of the system; color: silver.

a. Rough-In Frame Accessory: Part No. CT.AC-RIF.1; optional wall entry opening scaffold for new construction installations.

3. Wire Management Clips: Fabricated from galvanized steel; snaps into power track and data track; used to hold data cables in place; color: silver.

a. Clips - FLEX/FLEX-ON/EXPRESS: Part No. CT.01-CL-FX.1-10; raceway wire management clips; supplied in quantity of 10.
b. Clips - FLEX-MAX: Part No. CT.01-CL-OM.1-10; raceway wire management clips; supplied in quantity of 10.
c. Clips - WALLTRAC: Part No. CT.01-CL-WT.1-10; raceway wire management clips; supplied in quantity of 10.
d. Clips - EXPRESS-ON: Part No. CT.01-CL-XPO.2-10; raceway wire management clips; supplied in quantity of 10.

PART 3 - EXECUTION

3.1 EXAMINATION

Specifier Note: Select one of the options in the following paragraph and delete the other one.

A. Examine conditions under which floor-based power and data distribution systems are to be installed. Notify the [Architect/Engineer] [Construction Manager] in writing of conditions detrimental to proper completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent electrical hazards.

3.3 CLEANING AND PROTECTION

A. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer.

B. Protect floor-based power and data distribution systems until acceptance.

END OF SECTION