SECTION U

Table of Contents









Hubbell Trench Duct Series	Page
Features and Benefits	U-3
Trench Duct Series and Fittings	U-4
Additional Trench Duct Fittings	U-5
Hubbell Wall Duct Series	
Features and Benefits	U-6
Wall Duct Series and Fittings	U-7
Wall Duct Fittings	U-8
Additional Wall Duct Fittings	U-9

Hubbell Underfloor Duct Series	Page
Features and Benefits	U-10
Conventional, Flush and Blank Profiles	U-11
Technical Information and Wire Fill Capacity Chart	U-12
Raceway Fittings	U-13
Raceway Junction Boxes and Accessories	U-14
Junction Box Dimensions	U-15
Raceway Activation Kits	U-16

Products at a Glance



Hubbell Trench Duct Series

The Hubbell Trench system is an in-floor wire management system that meets today's high capacity wiring needs that require multiple circuit separation. Trench duct is commonly used as a feeder system for medical wall duct when installing radiology equipment such as X-Ray and MRI machines.



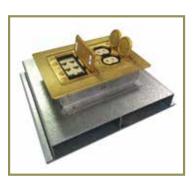
Hubbell Wall Duct Series

The Hubbell Wall Duct is available in either flush or surface mount and a combination will usually be required on any job. Vertical runs in the walls are usually flush mounted with horizontal runs on walls and all duct in ceiling plenum are typically surface type.



Hubbell Underfloor Duct Series

The Hubbell Underfloor Duct system is an in-slab wire management product for delivering power, voice and data services for applications that include retail facilities, open office workstations, fitness centers, casinos, medical facilities and libraries.



Underfloor Duct Raceway Activation Kits

- Available in brass and brushed aluminum to meet aesthetic requirements
- Available in one, two and three-gang options
- ScrubShield[®] Complies with UL514A scrub water requirements
- Flanged design may be used in tile, wood, carpet, terrazzo and bare concrete applications
- Uniform look when used in same areas where Hubbell floor boxes are installed

Features and Benefits

A high capacity trench system for in-floor wire management.

The Hubbell Trench system is an in-floor wire management system that meets today's high capacity wiring needs that require multiple circuit separation. Trench duct is commonly used as a feeder system for medical wall duct when installing radiology equipment such as X-Ray and MRI machines. Trench duct is also used as a stand alone system for commercial and retail applications where ease of access and high capacity are crucial variables.



Multiple compartments provide more capacity than conventional ducts.

The Hubbell Trench system provides more capacity than conventional conduits and ducts. It features a single, high-capacity duct with multi-compartments for easy placement of additional wiring.

It's open top design allows wiring to be laid in the duct instead of being pulled, eliminating the need for junction boxes.

Removable covers are 1/4" thick and lock into the track of the trench. Internal dividers and/or support strips increase load capacity of heavy-duty cover. These removable covers allow free access to wiring and can be placed anywhere along the duct for easy wire exit relocation.

- High capacity design supports large wiring for single and multiple service requirements
- Open top design allows wire to be easily laid in duct
- Cover plates are removable and adjust horizontally to any point along the duct. Custom lengths of trench and fittings are available. Provided in either galvanized G90 steel or nonferrous aluminum.
- Multiple compartment options allows for multiple circuit and low voltage separation
- Innovative duct support assembly allows for pre-pour leveling
- Packaging and labeling by project floor and room is available



Trench Duct Range of Offering

	Trench Product	½" Increments W	idth	Compartments	Cover Plate
Depth Width	OKA = Trench OKB = Pull Box OKC = Exit Cover OKE = End Cap OKL = Horizontal L OKR = Vertical Riser OKT = T Junction Box OKX = X Junction Box	B = 2½" C = 3" D = 3½" E = 4" (O J = 6"	9 12 18 24 other idths vail.)	1C = 1 Compartment 2C = 2 Compartment 3C = 3 Compartment 4C = 4 Compartment	1/4 = 1/4" thick

Note: For Alumimum Trench Duct or Fittings, add "AL" suffix to catalog number.

Hubbell Trench Duct Series and Fittings

Ordering Information Notes:

- 1. Common use sizes are listed below. Contact factory for other configurations or see page U-3 for Range of Offering table.
- 2. Trench Duct part numbers are for reference only. All Trench Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

	Description	Trench Depth	Cover Width	No. of Compartments	Catalog Number
	Straight Section	21/2"	9"	1	OKA/B9-1C-1/4
ಕ ∣	Manufactured in standard 6' lengths	3"	9"	2	OKA/C9-2C-1/4
ן כַּ	with factory installed dividers.	21/2"	12"	2	OKA/B12-2C-1/4
	Provided with (3) leveling feet/couplers	3"	12"	3	OKA/C12-3C-1/4
ᄓ	on each side, (3) 24" long cover plates	21/2"	18"	3	OKA/B18-3C-1/4
Ě	and (3) cover plate joint protectors.	3"	18"	4	OKA/C18-4C-1/4
Ī		21/2"	24"	3	OKA/B24-3C-1/4
		3"	24"	4	OKA/C24-4C-1/4

Note: For Alumimum Trench Duct or Fittings, add "AL" suffix to catalog number.

	Description	Outside Cover	No. of Compartments	Catalog Number
	Horizontal "L" Fitting	12" x 12"	1	OKL/B9-1C
	Manufactured with a single cover and matching	12" x 12"	2	OKL/C9-2C
	internal partitions to form a 90° horizontal "L".	15" x 15"	2	OKL/B12-2C
	Includes cover plate joint protectors and	15" x 15"	3	OKL/C12-3C
	leveling feet.	21" x 21"	3	OKL/B18-3C
	-	21" x 21"	4	OKL/C18-4C
		27" x 27"	3	OKL/B24-3C
		27" x 27"	4	OKL/C24-4C
	Horizontal 45° Elbow Fitting	45°	1	OKL/B9-1Cx45
	Manufactured with a split cover plate and matching	45°	2	OKL/C9-2Cx45
	internal partitions to form a 45° Mitered "L".	45°	2	OKL/B12-2Cx45
	Other angles available. Includes cover plate joint	45°	3	OKL/C12-3Cx45
	protectors and leveling feet.	45°	3	OKL/B18-3Cx45
S		45°	4	OKL/C18-4Cx45
g		45°	3	OKL/B24-3Cx45
Fittings		45°	4	OKL/C24-4Cx45
正	Single Level "T" Junction Fitting	15" x 12"	1	OKT/B9-1C
	Manufactured with matching internal partitions and	15" x 12"	2	OKT/C9-2C
	crossovers to isolate power and communications.	18" x 15"	2	OKT/B12-2C
	Includes cover plate joint protectors and	18" x 15"	3	OKT/C12-3C
	leveling feet.	24" x 21"	3	OKT/B18-3C
	-	24" x 21"	4	OKT/C18-4C
		30" x 27"	3	OKT/B24-3C
		30" x 27"	4	OKT/C24-4C
	Pull Box	9" x 12"	1	OKB/B9-1C
	Manufactured to attach to trench section replacing	9" x 12"	2	OKB/C9-2C
	end cap. Divided into compartments as shown.	12" x 12"	2	OKB/B12-2C
	Additional depth permits attachment of large	12" x 12"	3	OKB/C12-3C
	conduits. Box is field punched for conduits.	18" x 12"	3	OKB/B18-3C
	Standard depth is 6".	18" x 12"	4	OKB/C18-4C
	·	24" x 12"	3	OKB/B24-3C
		24" x 12"	4	OKB/C24-4C

	Description	Trench Width	Max Size Conduit	Catalog Number	
Cover Fittings	Exit Cover Designed to provide exit and feed for Trench Duct. Conduit openings are provided for power and communication exit or feed using conventional fittings or service fittings. Cable Exit Cap (OKSK) is for communication cable only. Exit fittings cover may be spaced anywhere along the length of the trench. All exit fitting covers are 6" long.	9" 12" 18" 24" 9" 12" 18" 24"	34" 34" 34" 34" 34" 34" 34"	OKC/9-3/4A OKC/12-3/4A OKC/18-3/4A OKC/24-3/4A OKC/9-3/4C OKC/12-3/4C OKC/18-3/4C OKC/24-3/4C	Type "A"
Exit	Cable Exit Cap Fits opening in Type "A" Exit Cover. Provides outlet for communication cable. Debris barrier included. Cable Exit Cap constructed from die cast aluminum. For use with Type "A" exit covers only.	All	-	OKSK	

Hubbell Trench Duct Fittings

Ordering Information Notes:

- 1. Common use sizes are listed below. Contact factory for other configurations or see page U-3 for Range of Offering table.
- 2. Trench Duct part numbers are for reference only. All Trench Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

			No. of		
	Description	Outside Cover	Compartments	Catalog Number	
	Single Level "X" Junction Fitting	15" x 15"	1	OKX/B9-1C	
	Manufactured with matching internal partitions and	15" x 15"	2	OKX/C9-2C	
	crossovers to isolate power and communications.	18" x 18"	2	OKX/B12-2C	
	Includes cover plate joint protectors and leveling feet.	18" x 18"	3	OKX/C12-3C	
		24" x 24"	3	OKX/B18-3C	
		24" x 24"	4	OKX/C18-4C	
		30" x 30"	3	OKX/B24-3C	
		30" x 30"	4	OKX/C24-4C	
	Description	Fits Trench Dim. (Width x Depth)	Max Trade Size Conduit	Catalog Number	
	End Cap	9" x 2½"	3/4"	OKE/B9	
S	Fits over end of trench run to close trench and prevent	9" x 3"	1"	OKE/C9	
Fittings	foreign material from entering. End cap may be drilled to	12" x 2½"	3/4"	OKE/B12	
臣	accept conduit.	12" x 3"	1"	OKE/C12	
证		18" x 2½"	3/4"	OKE/B18	
		18" x 3"	1"	OKE/C18	
		24" x 2½"	3/4"	OKE/B24	7
		24" x 3"	1"	OKE/C24	
			No. of		
	Description	Fits Trench Width	Compartments	Catalog Number	
	Vertical Riser Fitting (Straight)	9"	1	OKR/D9-1C	A
	Manufactured to transition from trench duct to a panel,	9"	2	OKR/D9-2C	
	pull box or to conduit. Mounts on trench in place of cover.	12"	2	OKR/D12-2C	
	Partitioned to separate cells and flanged to attach to a	12"	3	OKR/D12-3C	
	pull box or panel. Removable front cover and top cover.	18"	3	OKR/D18-3C	
	Includes OWV trench-to-wall duct adapter. Standard	18"	4	OKR/D18-4C	
	height above finish floor -12 ". Standard depth $-3\frac{1}{2}$ ".	24"	3	OKR/D24-3C	
	Available in a sweep version (replace OKR with OKSWR)	24"	4	OKR/D24-4C	•

	0	Description	Trench Width #1	Trench Width #2	Catalog Number	
Fitting	ב	Reducer Fitting Manufactured to transition from a wide trench duct width to a narrower trench duct width.	9" 12" 18" 24"	6" 9" 12" 18"	OKARED/B9-6-2C OKARED/B12-9-3C OKARED/B18-12-3C OKARED/B24-18-4C	
VACITION	Addition	Fastening Angles Accessories to join trench sections for field fabrication of horizontal and vertical assemblies.	Horizontal Angle Vertical Angle		OK/VWI OK/VVW	

es	Description	Accessory Type	Catalog Number
Accessories	Permits 1" of pre-pour vertical adjustment and couples sections together. "x" represents screw height (max. 6") and height of trench. Additional vertical adjustment is available by increasing the length of screw "x".	Single Leveling Foot Assembly	OK/F-x
uct Ac	Provides a 1½" wide surface (with gasket) for cover plate joints. "x" represents trench width.	Single Cover Plate Joint Protector	OK/DSD-x
۵	Separates trench duct compartments. "x" represents trench depth (see catalog number system).	Divider	OKP/x
Trench	Provided with 5/16 x 18 bolts on 6" or 12" centers for increased cover plate weight loading capability.	Support Stud Strip	Consult Factory

S	Description	No. of Compartments	"T" Unit Fitting Type	"X" Unit Fitting Type
Tunnel Fittings	Tunnels Factory installed inside of multi-compartment "T" and "X" units to maintain separation of services. May be ordered separately and field installed.	2, 3, or 4	Consult Factory	Consult Factory

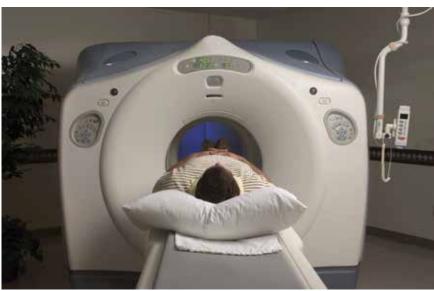
Features and Benefits

The Hubbell Wall Duct is a UL Listed metal raceway system designed for the enclosure of wiring of MRI or X-Ray equipment in medical applications.

The system provides complete lay-in wiring capability in order to accommodate the large cables and connectors used in today's installations.

Hubbell Wall Duct is available in either flush or surface mount and a combination will usually be required on any job. Vertical runs in the walls are usually flush mounted with horizontal runs on walls and all duct in ceiling plenum are typically surface type.

Wall Duct is available in ferrous steel and non-ferrous aluminum versions.



- Lay in wiring accommodates large cables and connectors to connect equipment
- Corrosion resistant galvannealed A60 steel or non ferrous aluminum versions
- Flush (primarily wall) and Surface (primarily ceiling)
 mount provides flexibility to address specific equipment
 placement and unique room design requirements
- Hubbell Wall Duct is utilized with Hubbell Trench Duct
- Packaging and labeling by project floor and room is available



Wall Duct Range of Offering

Wall Duct Product		Depth ½" Increments	Width	Cover Style
OWA = Wall Duct OWB = Adapter OWC = Coupling OWD = Reducer Coupling OWE = End Closure OWF = Cabinet Connector OWH = Horizontal Elbow	OWI = Internal Elbow OWL = External Elbow OWP = Partition OWR = Vertical Riser OWT = T Unit OWV = Trench to Wall Duct Adapter OWX = X Unit	A = 2" B = 2½" C = 3" D = 3½" E = 4" J = 6" N = 8" (Other Depths Available)	6 10 12 18 (Other Widths Available)	S = Surface F = Flush

Note: For Alumimum Wall Duct or Fittings, add "AL" suffix to catalog number.

Hubbell Wall Duct Series and Fittings

Ordering Information Notes:

- 1. Common use sizes are listed below. Contact factory for other configurations or see page U-6 for Range of Offering table.
- 2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number
Wall Duct	Wall and Ceiling Duct Manufactured in standard 60" lengths with two 30" long cover plates. Provided with one coupling and necessary screws.	3½" 3½" 3½" 3½"	91%6" 1113%6" 1713%6"	12" 14" 20"	OWA/D10F OWA/D12F OWA/D18F	10" 12" 18"	OWA/D10S OWA/D12S OWA/D18S

Note: For Alumimum Wall Duct or Fittings, add "AL" suffix to catalog number.

	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number	
	Internal Elbow Forms a sharp 90° Internal "L". Provided with one cover plate, one coupling and necessary screws.	3½" 3½" 3½"	9 ¹³ /16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWI/D10F OWI/D12F OWI/D18F	10" 12" 18"	OWI/D10S OWI/D12S OWI/D18S	
	Internal Elbow, Sweep Forms a chamfered 90° Internal "L" for increased cable bend radius. Provided with one cover plate, one coupling and necessary screws.	3½" 3½" 3½"	9 ¹³ /16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWSWI/D10F OWSWI/D12F OWSWI/D18F	10" 12" 18"	OWSWI/D10S OWSWI/D12S OWSWI/D18S	
Elbow Fittings	Internal 45° Elbow Forms a 45° Vertical "L". Provided with one cover plate, one coupling and necessary screws.	3½" 3½" 3½"	919/16" 1113/16" 1713/16"	12" 14" 20"	OWI45/D10F OWI45/D12F OWI45/D18F	10" 12" 18"	OWI45/D10S OWI45/D12S OWI45/D18S	
Elbow	Horizontal Elbow Forms a 90° Horizontal "L". Provided with one cover plate, one coupling and necessary screws. Corner divider "OWCP" ordered separately.	3½" 3½" 3½"	913/16" 1 113/16" 1 713/16"	12" 14" 20"	OWH/D10F OWH/D12F OWH/D18F	10" 12" 18"	OWH/D10S OWH/D12S OWH/D18S	
	Horizontal 45° Elbow Forms a 45° Horizontal "L". Provided with one cover plate, one coupling and necessary screws.	3½" 3½" 3½"	9 ¹³ /16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWH45/D10F OWH45/D12F OWH45/D18F	10" 12" 18"	OWH45/D10S OWH45/D12S OWH45/D18S	
	External Elbow Forms a sharp 90° External "L". Provided with two cover plates, one coupling and necessary screws.	3½" 3½" 3½"	9 ¹³ /16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWL/D10F OWL/D12F OWL/D18F	10" 12" 18"	OWL/D10S OWL/D12S OWL/D18S	

Note: Images shown are surface mount.

Hubbell Wall Duct Fittings

Ordering Information Notes:

- 1. Common use sizes are listed below. Contact factory for other configurations or see page U-6 for Range of Offering table.
- 2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number	
Internal / External Elbows	Internal / External Elbow Transitions from surface wall duct to surface style ceiling duct. Flush wall duct to surface style ceiling duct available upon request. Provided with two cover plates, one coupling and necessary screws.	3½" 3½" 3½"	913/16" 1113/16" 1713/16"	12" 14" 20"	_ _ _	10" 12" 18"	SPOWI/D10S SPOWI/D12S SPOWI/D18S	
Internal / E	Internal / External Elbow, Sweep Transitions from surface wall duct to surface style ceiling duct. Flush wall duct to surface style ceiling duct available upon request. Provided with two cover plates, one coupling and necessary screws.	3½" 3½" 3½"	913/16" 1113/16" 1713/16"	12" 14" 20"	- -	10" 12" 18"	SPOWSWI/D10S SPOWSWI/D12S SPOWSWI/D18S	
Units	Vertical "T" Unit Forms a 90° Vertical "T". Provided with three cover plates, two couplings and necessary screws.	3½" 3½" 3½"	913/16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWVT/D10F OWVT/D12F OWVT/D18F	10" 12" 18"	OWVT/D10S OWVT/D12S OWVT/D18S	
U "T"	Horizontal "T" Unit Forms a 90° Horizontal "T". Provided with one cover plate, one coupling and necessary screws. Tunnels are ordered separately.	3½" 3½" 3½"	9 ¹³ /16" 11 ¹³ /16" 17 ¹³ /16"	12" 14" 20"	OWT/D10F OWT/D12F OWT/D18F	10" 12" 18"	OWT/D10S OWT/D12S OWT/D18S	
"X" Unit	"X" Unit Forms intersection of four perpendicular ducts. Provided with one cover plate, two coupling and necessary screws. Tunnels are ordered separately.	3½" 3½" 3½"	9 ¹³ / ₁₆ " 11 ¹³ / ₁₆ " 17 ¹³ / ₁₆ "	12" 14" 20"	OWX/D10F OWX/D12F OWX/D18F	10" 12" 18"	OWX/D10S OWX/D12S OWX/D18S	

	Description	For Trench Width	For Wall Duct (Width x Depth)	Flush Catalog Number	Surface Catalog Number	
Riser Fittings	Vertical Riser Fitting, Straight Transitions from trench duct to a vertical run of wall duct. Mounts on trench in place of cover. Removable front cover. Standard height above finish floor —12" (7" for OWR/ D12x10). Standard depth — 3½". Provided with one coupling and necessary screws.	10" 12" 18" 12"	10" x 3½" 12" x 3½" 18" x 3½" 10" x 3½"	OWR/D10F OWR/D12F OWR/D18F OWR/D12-10F	OWR/D10S OWR/D12S OWR/D18S OWR/D12-10S	
Vertical	Vertical Riser Fitting, Sweep Transitions from trench duct to a vertical run of wall duct. Mounts on trench in place of cover. Removable front cover. Standard height above finish floor —12". Standard depth —3½". Provided with one coupling and necessary screws.	10" 12" 18" 12"	10" x 3½" 12" x 3½" 18" x 3½" 18" x 3½" 10" x 3½"	OWSWR/D10F OWSWR/D12F OWSWR/D18F OWSWR/D12-10F	OWSWR/D10S OWSWR/D12S OWSWR/D18S OWSWR/D12-10S	

DG .	Description	Overall Depth	Flush Wall Duct Body Width	Surface Cover Width	Catalog Number	
Adapter Fitti	Flush to Surface Adapter Transitions from flush wall duct to perpendicular surface wall duct. Provided with one cover plate, two couplings and necessary screws.	3½" 3½" 3½" 3½"	91 ³ /16" 11 ¹³ /16" 17 ¹³ /16" 17 ¹³ /16"	10" 18" 12" 18"	OWB/D10-10 OWB/D12-18 OWB/D18-12 OWB/D18-18	

Hubbell Wall Duct Fittings

Ordering Information Notes:

- 1. Common use sizes are listed below. Contact factory for other configurations or see page U-6 for Range of Offering table.
- 2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

	Description	Overall Depth	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number	
	Split Cover Plate Provides wire egress from raceway. Provided with assembly screws and grommet material.	 _	12" 14" 20"	OWSC/10F OWSC/12F OWSC/18F	10" 12" 18"	OWSC/10S OWSC/12S OWSC/18S	
	End Cap Closes off end of wall duct. Screws provided.	3½" 3½" 3½"	12" 14" 20"	OWE/D10F OWE/D12F OWE/D18F	10" 12" 18"	OWE/D10S OWE/D12S OWE/D18S	
Additional Fittings	Cabinet Connector Connects wall duct to enclosures. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½" 3½" 3½"	12" 14" 20"	OWF/D10 OWF/D12 OWF/D18	10" 12" 18"	OWF/D10 OWF/D12 OWF/D18	
Addi	Coupling Joins surface or flush wall duct sections together. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½" 3½" 3½"	12" 14" 20"	OWC/D10 OWC/D12 OWC/D18	10" 12" 18"	OWC/D10 OWC/D12 OWC/D18	
	Trench to Wall Duct Adapter Transitions from trench duct to a vertical run of wall duct when not using the OWR series Vertical Riser. Mounts on trench in place of cover. Provided with necessary screws.	3½" 3½" 3½"	12" 14" 20"	OWV/D10 OWV/D12 OWV/D18	10" 12" 18"	OWV/D10 OWV/D12 OWV/D18	
	Reducer Coupling Joins two sizes of surface or flush wall duct sections together. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½" 3½"	20" to 12" 20" to 14"	OWD/D (18-10) OWD/D (18-12)	18" to 10" 18" to 12"	OWD/D (18-10) OWD/D (18-12)	

Note: Grommet material is available to cover field cut openings in Wall Duct. Outside dimensions of grommet is 1/4" x 5/16" and is made from SBR rubber. Catalog number GROM-xx ("xx" represents length in feet).

S		For Overall		For Fitting Style	
ings	Description	Raceway Depth	Straight (Length 60")	Horizontal "L"	Internal Sweep Elbow
Partitions Fitti	Internal Duct Partitions Divides raceway and fittings into compartments. Screws provided.	3½"	OWP/D	OWCP/D	OWSWP/D

S	Description	No. of Compartments	"T" Unit Fitting Type	"X" Unit Fitting Type
g	Tunnels	2, 3, or 4	Consult Factory	Consult Factory
Ē	Field installed inside of multi-compartment "T" and "X" units to maintain separation of			
<u>•</u>	services. May be factory installed.			
_				

Features and Benefits



Multi-Compartment Underfloor Duct Saves Time and Money in Your In-Slab Wire Management System

The Hubbell Underfloor Duct system is an in-slab wire management product for delivering power, voice and data services for applications that include retail facilities, open office workstations, fitness centers, casinos, medical facilities and libraries. This system is uniquely designed with multiple compartments, allowing unlimited design options and cost savings in labor and materials from other single-compartment systems. Matched with our strong national distribution and complete technical/application support, the Hubbell Underfloor Duct System is the perfect solution for your underfloor wire management needs.



Key Features and Benefits

- Eight duct profiles available to accommodate numerous in-slab wire management for power and communications.
- One-piece design multi-compartment duct, drastically reducing installation and material costs.
- Standard insert heights ranging from 1 to 3 inches (other heights available).
- Inclusive tile trim in square-top junction boxes, providing the installer the on-site option of using the trim or leaving it recessed.
- Combination duct coupler/support, reducing material and labor costs using the same part to join raceway sections together and to support/level the duct.
- Activation inserts are pre-assembled to the duct, or the inserts can be purchased separately for field installation only where you need them.
- Heavy duty junction boxes are available for areas requiring high-concentrated floor loads.
- Meets or exceeds UL 884 specifications, assuring a fully UL Listed system from one manufacturer.



Flush Insert Duct Benefits

- Provides an aesthetic wire management solution for delivering power and communications services.
- Unique multi-gang flush inserts with removable voltage dividers provide the flexibility of installing multiple gangs of the same service at each insert location.
- Individual gangs can be activated as needed keeps costs down.
- Activation trims accept standard Hubbell floor box covers for power and data, available in aluminum and brass.



Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.



Conventional, Flush and Blank Underfloor Duct Profiles

Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

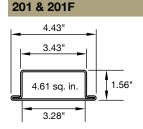
- All duct comes in standard 10 ft. lengths
- 14 gauge, G90 galvanized steel
- 2 Inch IPS (Iron Pipe Size) round inserts are die-cast zinc
- Rectangular inserts are 14 gauge, G90 galvanized steel

Catalog Number System

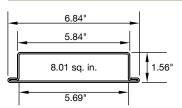
	SP202F -	- 2	- 12	
	Profile	Insert Height	Insert Spacing	
Round Insert Duct and Blank Duct	201 201W 202 SP202 202W 203 204	B = Blank 1 = 1" (201 only) 15 = 1 ½" 2 = 2" 25 = 1 ½" 3 = 3"*	12 = 12" 24 = 24" (consult factory for special preset spacing) n/a for Blank Duct	
Flush Insert Duct	201F 201WF 202F SP202F 202WF 203F	1 = 1" (201F only) 15 = 1 ½"** 2 = 2" 25 = 2 ½" 3 = 3"*	12 = 12" 24 = 24" (consult factory for special preset spacing)	

Note: *Consult factory for heights greater than 3".

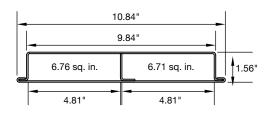
Dimensions



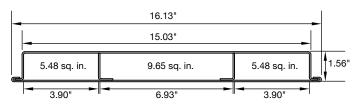
201W & 201WF



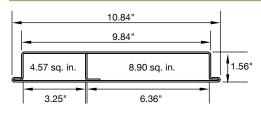
202 & 202F



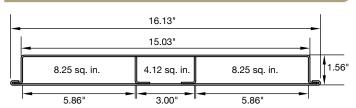
203



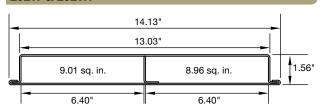
SP202 & SP202F



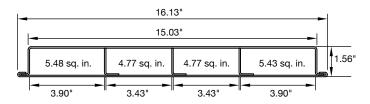
203F



202W & 202WF



204



^{** 1 1/2&}quot; min. required for duplex receptacles.



Technical Information and Wire Fill Capacity Chart

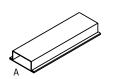
Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

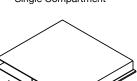
Duct Profile	201 201F	201W 201WF)2 2F	SP2		-	202W 202WF		203			203F		204					
Channel Cross Sectional Area (sq. in.)	4.61	8.01	6.76	6.71	4.57	8.9	9.01	8.96	5.48	9.65	5.48	8.25	4.12	8.25	5.48	4.77	4.77	5.43		
Channel	А	Α	Α	В	Α	В	Α	В	Α	В	С	Α	В	С	Α	В	С	D		

Cable Type	Size	Approx. Dia. (in.)	Approx. Area (sq in.)																		
	14 AWG	0.111	0.0097	190	331	279	277	188	367	372	370	226	398	226	341	170	341	226	197	197	224
Power	12 AWG	0.130	0.0133	138	241	203	202	137	268	271	270	165	290	165	248	124	248	165	143	143	163
(THHN)	10 AWG	0.164	0.0211	87	151	128	127	86	168	170	169	103	182	103	156	78	156	103	90	90	102
	8 AWG	0.216	0.0366	50	87	73	73	49	97	98	97	59	105	59	90	44	90	59	52	52	59
Coax	RG-6/U	0.270	0.0573	32	55	47	46	31	62	62	62	38	67	38	57	28	57	38	33	33	37
Cables	RG-6/UQ	0.298	0.0697	26	45	38	38	26	51	51	51	31	55	31	47	23	47	31	27	27	31
	Cat 5e	0.210	0.0346	53	92	78	77	52	102	104	103	63	111	63	95	47	95	63	55	55	62
LAN Cables	Cat 6	0.250	0.0491	37	65	55	54	37	72	73	73	44	78	44	67	33	67	44	38	38	44
	Cat 6A	0.350	0.0962	19	33	28	27	18	37	37	37	22	40	22	34	17	34	22	19	19	22
Fibor Ontic	2-6 Strand	0.190	0.0284	65	113	95	94	64	125	127	126	77	136	77	116	58	116	77	67	67	76
Fiber Optic Distribution	8-12 Strand	0.230	0.0415	44	77	65	64	43	85	86	86	52	92	52	79	39	79	52	45	45	52
Cables	16-24 Strand	0.350	0.0962	19	33	28	27	18	37	37	37	22	40	22	34	17	34	22	19	19	22

Note: Cable quantities shown in this chart are based on a 40% wire fill capacity. Sizes of COAX, LAN and Fiber Optic cables are provided for example only. Consult cable manufacturer's specification for exact cable sizes.



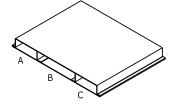
201 and 201F Series Single Compartment



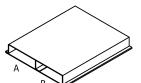
202W and 202WF Series Two Equal Compartments



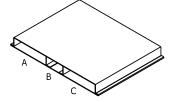
201W and 201WF Series Single Wide Compartment



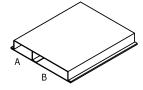
203 Series Three Compartments



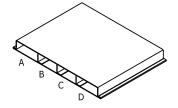
202 and 202F Series Two Equal Compartments



203F Series Three Compartments



SP202 and SP202F Series Modified Two Compartments



204 Series Four Compartments

Applicable Codes & Standards

- TIA/EIA 569-C "Commercial Building Standard for Telecommunications Pathways and Spaces"
- NEC Article 390 "Underfloor Raceways"
- Ampacity derating rules of NEC Article 310.15 (B)(3) applies to conductors installed in Underfloor Raceways and Trench Duct
- UL Standard UL 884 "Underfloor Raceways and Fittings"
- UL Listed E75939 (Underfloor Raceway) & E304554 (Underfloor raceway Fittings)



Underfloor Duct Raceway Fittings

Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

				F	lusł	lns	sert	Duc	ct		Con	ven	tion	al C	Ouct	i .
				201F	201WF	202F	SP202F	202WF	203F	201	201W	202	SP202	202W	203	204
	^		201-DCS	•						•						
声보		Couples duct sections together and	201W-DCS		•						•					
Coupler Support		supports the duct. To be used every	202-DCS			•	•					•	•			
လ က	< >	5 feet of duct run.	202W-DCS					•						•		
			203-DCS						•						•	•
	$\overline{}$		201-ECS	•						•						
End Cap Support			201W-ECS		•						•					
		Supports and closes unused duct ends.	202-ECS			•	•					•	•			
Su	<->	unused duct ends.	202W-ECS					•						•		
			203-ECS						•						•	•
			201-VEL	•						•						
	_		201W-VEL		•						•					
ser		Transitions from duct embedded	202-VEL			•						•				
Ë		in concrete floor to vertical duct or may be used for direct connection	SP202-VEL				•						•			
<u> 29</u>		to a Universal Conduit Adapter	202W-VEL					•						•		
Vertical Riser		(UCA). Coupler / Supports (DCS) are required to attach to duct and UCA.	203-VEL												•	
>	Y	required to attach to duct and OCA.	203F-VEL						•							
			204-VEL													•
			201-UCA	•						•						
≒		Transitions from duct to conduit.	201W-UCA		•						•					
l udr		A blank 14 gauge steel plate is	202-UCA			•						•				
ersal Cor Adapter		provided for field punched conduit openings. For use with up to 2 ½"	SP202-UCA				•						•			
sal dag		trade size conduits. Consult factory	202W-UCA					•						•		
Universal Conduit Adapter		for larger conduit accommodations. (may also be inserted directly into	203-UCA												•	
D		Junction Boxes)	203F-UCA						•							
			204-UCA													•
			201-HB90	•						•						
		Provides a horizontal 90 degree	201W-HB90		•						•					
) O		turn in floor duct. No hand access provided. Consult factory for other	202-HB90			•						•				
		angles.	SP202-HB90-NIR				•						•			
Horizontal 90 Degree Elbo	SP202-HB90-NIR	ODOOO LIDOOL	SP202-HB90-NOR				•						•			
lori		SP202-HB90's must be specified either with the Narrow Compartment	202W-HB90					•						•		
1 0		located at the inside radius (-NIR)	203-HB90												•	
Ō	ODDOG LIDGE HET	or at the outside radius (-NOR) as shown in illustration.	203F-HB90						•							
	SP202-HB90-NOR	GROWITH HUGH AUOTI.	204-HB90													•
			201-DCC	•					П	•						
et tor			201W-DCC		•						•					
Cabinet		Provides a means for connecting	202-DCC			•	•					•	•			
Cabinet Connector		duct to an electrical cabinet	202W-DCC					•						•		
S			203-DCC						•						•	•



Conventional Duct

Underfloor Duct Raceway Junction Boxes and Accessories

For providing square opening access at intersections of Feeder Duct and Distribution

For providing round opening

Feeder Duct and Distribution Duct. Provided with Brass or Stainless Steel Carpet Ring *Available in Stainless Steel. To order replace B with SS

Same as above except cover

plates are 3/8" thick and after-pour height adjustable. Carpet Rings and Closure Caps must be ordered separately. Duct Entrance Cap - HDJBDC

1/8" thick Carpet Trim for Heavy Duty Junction Boxes. *Available in Stainless Steel. To order replace BRASS with SS

Provides attachment point for

conduit to each corner of all

junction boxes. JB-CCA is

factory punched.

provided with 14 gauge steel

plate for field punched conduit

opening. All other adapters are

HDJBCC

access at intersections of

Ordering Information Note:

Square Access **Junction Box**

Round Access

Round Access

for Heavy Duty Junction Boxes Carpet Ring

Corner Conduit Junction Box

Junction Box Heavy Duty

Junction Box

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

x = Preset Insert Height

1 = **1**" (201 & 201F only)

15 = 1 ½"

2 = 2"

25 = 21

3 = 3"gre

1	/2" (min. required for duplex recept.)		iusi	1 1118	er t	Duc	, L		<u> </u>	iven	LIOI	iai L	<i></i>	
ı	1/2" (consult factory for heights eater than 3")	201F	201WF	202F	SP202F	202WF	203F	201	201W	202	SP202	202W	203	204
	201-JB-x	•						•						
	201W-JB-x		•						•					
	202-JB-x			•						•				
	SP202-JB-x				•						•			
	202W-JB-x					•						•		
	203-JB-x												•	
	203F-JB-x						•							
	204-JB-x													•
	201-JB-x-RCB*	•						•						
	201W-JB-x-RCB*		•						•					
	202-JB-x-RCB*			•						•				
	SP202-JB-x-RCB*				•						•			
	202W-JB-x-RCB*					•						•		
	203-JB-x-RCB*												•	
	203F-JB-x-RCB*						•							
	204-JB-x-RCB*													•
	202-JB-x-HD-ADJ			•						•				
	SP202-JB-x-HD-ADJ				•						•			
	202W-JB-x-HD-ADJ					•						•		
	RD-BRASS*-202-ADJ			•						•				
	RD-BRASS*-SP202-ADJ				•						•			
	RD-BRASS*-202W-ADJ					•						•		
	JB-CCA					1/4"	steel	cove	-	Rev	/ersil	ble		

Flush Insert Duct

Hubbell Trench Duct is commonly used as a feeder system for Underfloor Duct Raceway systems.



Factory assembled Trench/Underfloor duct intersect units allow unrestricted capacity by the elimination of tunnels. Side mounted Underfloor duct is available for shallow concrete pours. Consult factory for details.

• High capacity design supports large cables for single and multiple service requirements.

JB-CCA-1/2

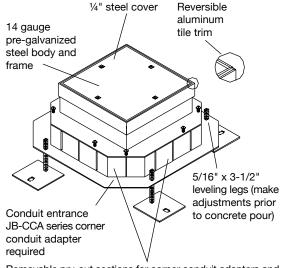
JB-CCA-3/4

JB-CCA-1-1/2

JB-CCA-1

JB-CCA-2

- Open top design allows cables to be easily
- Cover plates are removable and adjust horizontally to any point along the duct.
- Custom lengths of trench and fittings are
- Multiple compartments allow complete separation of services.
- Innovative duct support assembly allows for pre-pour leveling and acts as a splice for duct sections.



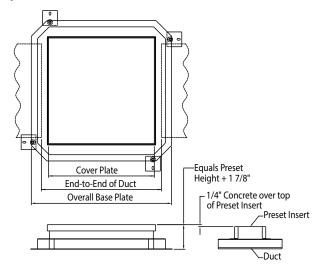
Removable pry-out sections for corner conduit adapters and duct entrances. Additional blanking plates not required for unused junction box entrances. Blanking plates must be ordered separately for heavy duty junction boxes.



Underfloor Duct Junction Box Dimensions

Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.



Junction Box Catalog Number	Cover Plate	End-To-End Of Duct	Overall Base Plate	
201-JB-x 201-JB-x-RCx	6 ⁵ /16"	8"	10 ½"	
201W-JB-x 201W-JB-x-RCx			17 ¹³ /16"	
202-JB-x 202-JB-x-RCx	12 ⁹ /16"	14 ½"		
SP202-JB-x SP202-JB-x-RCx				
202W-JB-x 202W-JB-x-RCx				
203-JB-x 203-JB-x-RCx	17"	19 ⁵ /8"	22 ¹¹ / ₁₆ "	
203F-JB-x 203F-JB-x-RCx		19 /8		
204-JB-x 204-JB-x-RCx				
202-JB-x-HD-ADJ SP202-JB-x-HD-ADJ 202W-JB-x-HD-ADJ	Consult Factory For Dimensions			

Underfloor Duct Raceway Aftersets and Marker Caps

	Sindernice: Bust haceway Anterests and Marker Cape							
	Flush Insert Duct		Description	Catalog Number				
et t				1 1/2" Insert Height	DAIFA-1G-15			
		Provides means to add activation inserts in the field where needed prior to concrete pour. 14 gauge steel.	1-Gang	2" Insert Height	DAIFA-1G-2			
				3" Insert Height	DAIFA-1G-3			
			2-Gang	1 1/2" Insert Height	DAIFA-2G-15			
Afterset Insert				2" Insert Height	DAIFA-2G-2			
₹ =				3" Insert Height	DAIFA-2G-3			
			3-Gang	1 1/2" Insert Height	DAIFA-3G-15			
				2" Insert Height	DAIFA-3G-2			
				3" Insert Height	DAIFA-3G-3			
Marker Cap	<u> </u>	Marker caps are used in place of standard insert caps in (a) each insert adjacent to junction box, (b) inserts on each side of a perma-		Insert Marker Cap:				
				Zinc Screw	FA-DMC-Z			
	•	nent wall, and (c) the last insert in each run of duct.	Brass Screw	FA-DMC-B				
Compart- ment Cover	•	Used for abandoning preset opening (one per gang). 18 gauge steel,	Blank Cover	FA-MC				
	Round Insert Duct		Description	Catalog Number				
Afterset				1 " Insert Height	DAI-1			
		Provides means to add activation inserts in the field where needed prior to or after concrete pour. Zinc die cast.		2 " Insert Height	DAI-2			
				3 " Insert Height	DAI-3			
	0		4 " Insert Height	DAI-4				
er		Marker caps are used in place of standard insert caps in	(a) each	Insert Marker Cap:				
larker Cap		insert adjacent to junction box, (b) inserts on each side o	Zinc Screw	DMC-Z				
	\ /	pont wall and (a) the last ineart in each wan of dust						

Reducing Bushing DMC-B

RB-162

RB-163

Brass Screw

2" to 3/4"

2" to 1"

Reduces threaded 2" IPS insert opening to either 3/4" NPT or 1" NPT threaded opening for attachment of conduit fitting or pedestal

nent wall, and (c) the last insert in each run of duct.

fitting chase nipple.



Underfloor Duct Raceway Activation Kits



- Available in brass and brushed aluminum to meet aesthetic requirements
- Available in one, two and three-gang options
- ScrubShield® Complies with UL514A scrub water requirements
- Flanged design may be used in tile, wood, carpet, terrazzo and bare concrete applications
- Uniform look when used in same areas where Hubbell floor boxes are installed

	Flush Insert Underfloor Duct	Finish	1-Gang 6" x 4.85"	2-Gang 6" x 8.13"	3-Gang 6" x 11.34"		
Flanges	Flanges are provided with adapter plates and accessories required for installing to rectangular Underfloor Duct preset inserts and aftersets.	Brass	SB3083W-UFD	SB3084W-UFD	SB3085W-UFD		
		Aluminum	SA3083W-UFD	SA3084W-UFD	SA3085W-UFD		
			27				
			Dunlay Flan	Dunlay Carayy	Style Line Decorator	Combination 21/8" x 3/4"	
		Droop	Duplex Flap	Duplex Screw \$3625	Opening S3826	S2425	
	All Covers 4.15" x 2.99"	Brass	S3825				
		Aluminum	SA3825	SA3625	SA3826	SA2425	
Covers			3			9	
			Combination 21/8" x 1"	2 ¹ / ₈ " Single Receptacle	2 ³ /8" Single Receptacle	Blank	
		Brass	S2625	S2825	S3425	S3813	
		Aluminum	SA2625	_	_	SA3813	
			0			6 6	

	Roun	Round Insert Underfloor Duct						
sing	frame,	st aluminum brushed aluminum g, chase nipple,	1" Chase Nipple	SC3099A				
Housing	without plates		3/4" Chase Nipple	SC3098A				
Plates		Duplex Receptacle	Single Receptacle 1.39" (35.3 mm) opening	Style Line Decorator	Blank	Telephone bushing 1 in. I.D. and (2) ³ /8" KO for coax	Furniture Feed aluminum plate with ³ /4" trade size KO	Furniture Feed aluminum plate, blank
		SS309D	SS309S	SS309DS	SS309B	SS309T	SS309SF	SS309BF
			3000	,				