

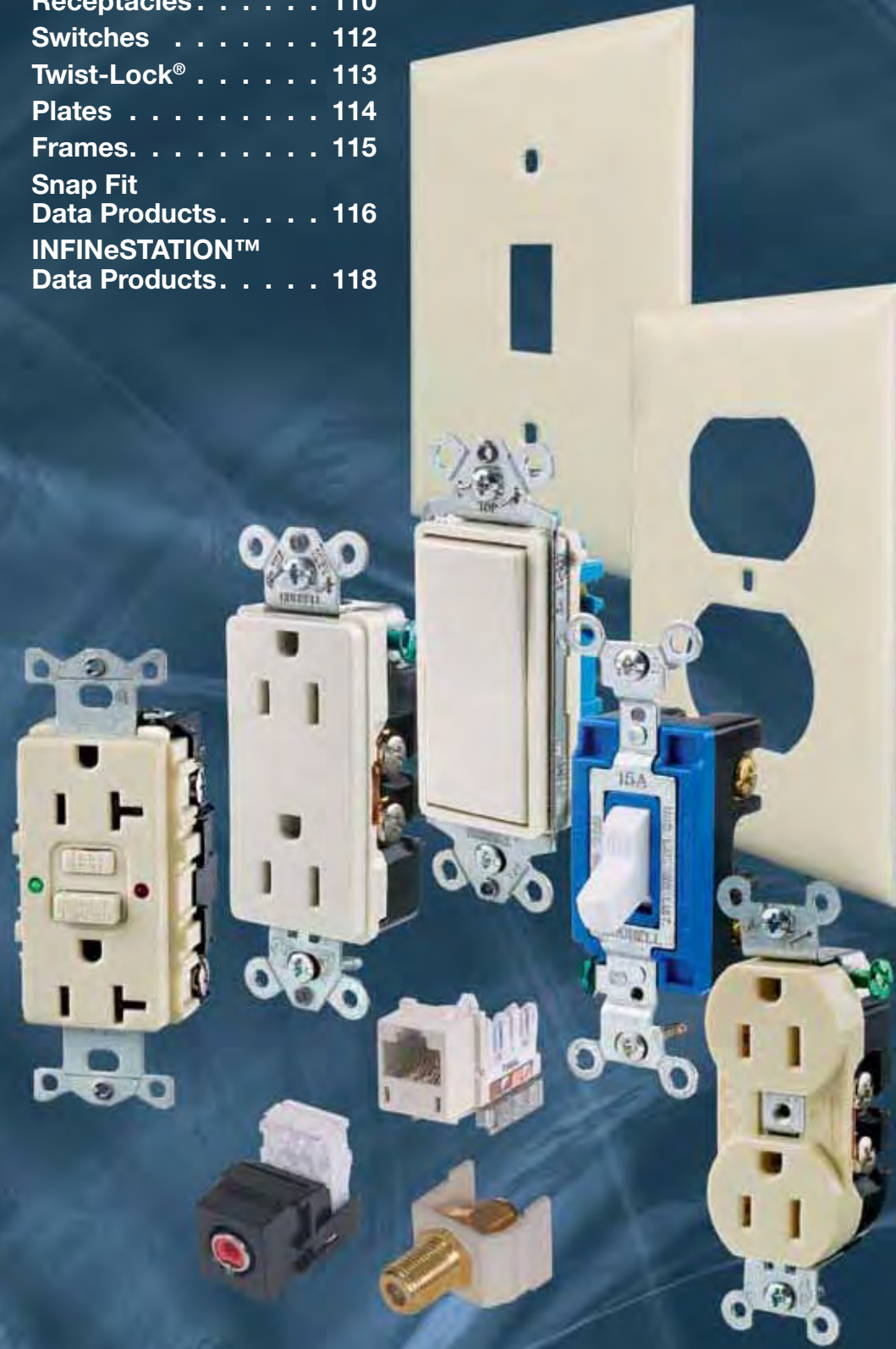


WIRING SYSTEMS
Wiring Device-Kellems
Premise Wiring

Power, Data, Audio and Video Accessories

HUBBELL

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Receptacles – Construction, Commercial and Style Line® Series



CR5252I



CR5252IG



CR15I



CRF15



HBL2152OW

Construction Series - Back and Side Wired

Description	Color	Smooth Face		Finder Groove Face	
		15A 125V	20A 125V	15A 125V	20A 125V
Nylon Face	Brown	CR5252	CR5352	CR5262	CR5362
	Ivory	CR5252I	CR5352I	CR5262I	CR5362I
	Gray	CR5252GY	CR5352GY	CR5262GY	CR5362GY
	White	CR5252W	CR5352W	CR5262W	CR5362W
	Black	CR5252BK	CR5352BK	CR5262BK	CR5362BK
	Office White	CR5252OW	CR5352OW	CR5262OW	CR5362OW
	Red	CR5252R	CR5352R	CR5262R	CR5362R
	Almond	CR5252AL	CR5352AL	—	—
	Blue	—	—	—	CR5362BL
Isolated Ground	Orange	CR5252IG	CR5352IG		
Nylon Face	Ivory	CR5252IGI	CR5352IGI		
	Gray	CR5252IGGY	CR5352IGGY		
	White	CR5252IGW	CR5352IGW		
	Black	CR5252IGBK	CR5352IGBK		
	Office White	CR5252IGOW	CR5352IGOW		
	Blue	—	CR5352IGBL		

Commercial Series - Side Wired Only

Description	Color	Smooth Face		Finder Groove Face	
		15A 125V	20A 125V	15A 125V	20A 125V
Nylon Face	Brown	CR15	CR20	CRF15	CRF20
	Ivory	CR15I	CR20I	CRF15I	CRF20I
	Gray	CR15GRY	CR20GRY	CRF15GRY	CRF20GRY
	White	CR15WHI	CR20WHI	CRF15WHI	CRF20WHI
	Black	CR15BLK	CR20BLK	CRF15BLK	CRF20BLK
	Office White	CR15OW	CR20OW	CRF15OW	CRF20OW
	Almond	CR15AL	CR20AL	CRF15AL	CRF20AL

Commercial Series - Side Wired, Open Terminals

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Smooth	Brown	CRO15	CRO20
Nylon Face	Ivory	CRO15I	CRO20I
	Gray	CRO15GRY	CRO20GRY
	White	CRO15WHI	CRO20WHI
	Black	—	CRO20BLK

Style Line Series - Back and Side Wired

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Smooth	Brown	HBL2152	HBL2162
Nylon Face	Ivory	HBL2152I	HBL2162I
	Gray	HBL2152GY	HBL2162GY
	White	HBL2152WA	HBL2162WA
	Black	HBL2152BK	HBL2162BK
	Office White	HBL2152OW	HBL2162OW
	Almond	HBL2152AL	HBL2162AL

Receptacles– GFCI, Surge and Isolated Ground Series

GFCI Duplex - Back & Side Wired

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Flush Thermoplastic Face. Matching Wall Plate Included.	Brown	GFR5252A	GFR5352A
	Ivory	GFR5252IA	GFR5352IA
	Gray	GFR5252GYA	GFR5352GYA
	White	GFR5252WA	GFR5352WA
	Black	GFR5252BKA	GFR5352BKA
	Office White	GFR5252OWA	GFR5352OWA
	Red	GFR5252RA	GFR5352RA
	Almond	GFR5252ALA	GFR5352ALA



GFR5252RA

GFCI Duplex With LED - Back & Side Wired

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Flush Thermoplastic Face. Matching Wall Plate Included. GFCI LED.	Brown	GFR5252L	GFR5352L
	Ivory	GFR5252IL	GFR5352IL
	Gray	GFR5252GYL	GFR5352GYL
	White	GFR5252WL	GFR5352WL
	Black	GFR5252BKL	GFR5352BKL
	Office White	GFR5252OWL	GFR5352OWL
	Red	GFR5252RL	GFR5352RL
	Almond	GFR5252ALL	GFR5352ALL



GFR5252IL

AutoGuard™ Self-Test GFCI Duplex With LEDs - Back & Side Wired

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Flush Thermoplastic Face. Matching Wall Plate Included. Two GFCI LEDs.	Brown	GFR5252ST	GFR5352ST
	Ivory	GFR5252IST	GFR5352IST
	Gray	GFR5252GYST	GFR5352GYST
	White	GFR5252WST	GFR5352WST
	Black	GFR5252BKST	GFR5352BKST
	Office White	GFR5252OWST	GFR5352OWST
	Red	GFR5252RST	GFR5352RST
	Almond	GFR5252ALST	GFR5352ALST



GFR5352IST

Circuit Guard®, Specification Grade, Surge Suppression Duplex

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Surge suppression with light, 240 joules/15000A per mode.	Blue	HBL5260SA	HBL5360SA
	Ivory	HBL5260ISA	HBL5360ISA
	Office White	HBL5260OWSA	HBL5360OWSA
Surge suppression with light and alarm, 240 joules/15000A per mode.	Blue	HBL5262SA	HBL5362SA
	Ivory	HBL5262ISA	HBL5362ISA
	Gray	HBL5262GYSA	HBL5362GYSA
	White	HBL5262WSA	HBL5362WSA
	Office White	HBL5262OWSA	HBL5362OWSA
Almond	HBL5262ALSA	HBL5362ALSA	



HBL5262GYSA

Isolated Ground, Industrial Grade Duplex

Description	Color	Catalog Numbers	
		15A 125V	20A 125V
Heavy Duty duplex receptacles.	Orange	IG5262	IG5362
	Ivory	IG5262I	IG5362I
	Red	IG5262R	IG5362R
	Gray	IG5262GY	IG5362GY
	White	—	IG5362W



IG5262



Switches – Construction, Commercial and Style Line® Series

Construction Series Toggle, Back and Side Wired

15A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	CS1201	—	CS1203	—
Ivory	CS1201I	—	CS1203I	—
Gray	CS1201GY	—	CS1203GY	—
White	CS1201W	—	CS1203W	—
Office White	CS1201OW	—	CS1203OW	—
Almond	CS1201AL	—	CS1203AL	—

CS1201I

20A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	CS1221	CS1222	CS1223	CS1224
Ivory	CS1221I	CS1222I	CS1223I	CS1224I
Gray	CS1221GY	CS1222GY	CS1223GY	CS1224GY
White	CS1221W	CS1222W	CS1223W	CS1224W
Red	CS1221R	CS1222R	CS1223R	CS1224R
Black	CS1221BK	CS1222BK	CS1223BK	CS1224BK
Office White	CS1221OW	CS1222OW	CS1223OW	CS1224OW
Almond	CS1221AL	—	CS1223AL	CS1224AL

CS1221

Commercial Series Toggle, Side Wired Only

15A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	CS115	—	CS315	—
Ivory	CS115I	—	CS315I	—
Gray	CS115GY	—	CS315GY	—
White	CS115W	—	CS315W	—
Office White	CS115OW	—	CS315OW	—
Almond	CS115AL	—	CS315AL	—

CS115I

20A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	CS120	—	CS320	—
Ivory	CS120I	—	CS320I	—
Gray	CS120GY	—	CS320GY	—
White	CS120W	—	CS320W	—
Office White	CS120OW	—	CS320OW	—
Almond	CS120AL	—	CS320AL	—

CS120

Style Line® Rocker, Back & Side Wired

15A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	HBL2101	—	HBL2103	—
Ivory	HBL2101I	—	HBL2103I	—
Gray	HBL2101GY	—	HBL2103GY	—
White	HBL2101W	—	HBL2103W	—
Office White	HBL2101OW	—	HBL2103OW	—
Almond	HBL2101AL	—	HBL2103AL	—

HBL2101AL

20A, 120-277V AC

Description	Single Pole	Double Pole	Three Way	Four Way
Brown	HBL2121	HBL2122	HBL2123	HBL2124
Ivory	HBL2121I	HBL2122I	HBL2123I	HBL2124I
Gray	HBL2121GY	HBL2122GY	HBL2123GY	HBL2124GY
White	HBL2121W	HBL2122W	HBL2123W	HBL2124W
Office White	HBL2121OW	HBL2122OW	HBL2123OW	HBL2124OW
Almond	HBL2121AL	HBL2122AL	HBL2123AL	HBL2124AL

Twist-Lock® Receptacles

15 Amp Devices

2 Pole, 3 Wire Grounding

Description	L5-15R 15A 125V	L6-15R 15A 250V
Duplex, flush, brown RTP face	HBL4700	HBL4550
IG duplex, orange RTP face	IG4700A	IG4550A
Single, flush black nylon face	HBL4710	HBL4560
IG single, flush orange nylon face	IG4710	IG4560



20 Amp Devices

2 Pole, 3 Wire Grounding

Description	L5-20R 20A 125V	L6-20R 20A 250V	L8-20R 20A 480V
Single, flush black nylon face	HBL2310	HBL2320	HBL2340
IG single, flush orange nylon face	IG2310	IG2320	IG2340



3 Pole, 4 Wire Grounding

Description	L14-20R 20A 125/250V	L15-20R 20A 3Ø 250V	L16-20R 20A 3Ø 480V
Single, flush black nylon face	HBL2410	HBL2420	HBL2430
IG single, flush orange nylon face	IG2410	IG2420	—



4 Pole, 5 Wire Grounding

Description	L21-20R 20A 3ØY 120/208V	L22-20R 20A 3ØY 277/480V	L23-20R 20A 3ØY 347/600V
Single, flush black nylon face	HBL2510	HBL2520	HBL2530
IG single, flush orange nylon face	IG2510	—	—



30 Amp Devices

2 Pole, 3 Wire Grounding

Description	L5-30R 30A 125V	L6-30R 30A 250V	L8-30R 30A 480V
Single, flush black nylon face	HBL2610	HBL2620	HBL2640
IG single, flush orange nylon face	IG2610	IG2620	—



3 Pole, 4 Wire Grounding

Description	L14-30R 30A 125/208V	L15-30R 30A 3Ø 250V	L16-30R 30A 3Ø 480V
Single, flush black nylon face	HBL2710	HBL2720	HBL2730
IG single, flush orange nylon face	IG2710	IG2720	—



4 Pole, 5 Wire Grounding

Description	L21-30R 30A 3ØY 120/208V	L22-30R 30A 3ØY 277/480V	L23-30R 30A 3ØY 347/600V
Single, flush black nylon face	HBL2810	HBL2820	HBL2830
IG single, flush orange nylon face	IG2810	—	—



Wall and Face Plates and INFINESTATION™ Frames

Nylon and Metal Wall Plates



P1AL



P8AL

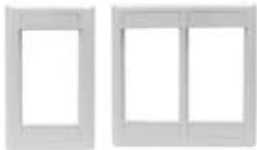


HPS1AL

Description	Color	Toggle Switch Plates		Duplex Receptacle Plates		GFCI, Surge & Style Line® Receptacle Plates	
		1-Gang	2-Gang	1-Gang	2-Gang	1-Gang	2-Gang
Standard, Smooth High-Impact Nylon	Almond	P1AL	P2AL	P8AL	P82AL	HPS1AL	HPS2AL
	Ivory	P1	P2	P8	P82	HPS1I	HPS2I
	White	P1W	P2W	P8W	P82W	HPS1WA	HPS2WA
	Brown	P1X	P2X	P8X	P82X	HPS1	HPS2
	Gray	P1G	P2G	P8G	P82G	HPS1GY	HPS2GY
	Office White	P1OW	P2OW	P8OW	P82OW	HPS1OW	HPS2OW
	Black	P1B	P2B	P8B	P82B	HPS1B	HPS2B
	Red	P1R	P2R	P8R	P82R	HPS1R	HPS2R
	Orange	—	—	P8OR	P82OR	—	—
Plated Steel	Chrome	CH1	CH2	CH8	CH82	CH26	CH262
	Brass	BP1	BP2	BP8	BP82	BP26	BP262
Stainless Steel	Smooth	S1	S2	S8	S82	S26	S262
	Beveled	97071	—	97101	—	—	—
Brass	Smooth	B1	B2	B8	B82	B26	B262
Anodized Aluminum	Smooth	A1	A2	A8	A82	—	—

IMF INFINESTATION™ Frames

The IMF series accepts INFINESTATION modules in 3 unit combinations for single-gang and 6 unit combinations for two-gang applications. Start by selecting a frame and then the required mix of modules. See page 118-119 for module combinations.



Color	Catalog Number		Color	One Gang	Two Gang
	One Gang	Two Gang			
Almond	IMF1AL	IMF2AL	Black	IMF1BK	IMF2BK
Gray	IMF1GY	IMF2GY	Electric Ivory	IMF1EI	IMF2EI
Office White	IMF1OW	IMF2OW	White	IMF1W	IMF2W

IFP Face Plates

Color	One-Gang					Two-Gang		
	1-Port	2-Port	3-Port	4-Port	6-Port	6-Port	9-Port	12-Port
Almond	IFP11AL	IFP12AL	IFP13AL	IFP14AL	IFP16AL	IFP26AL	IFP29AL	IFP212AL
Gray	IFP11GY	IFP12GY	IFP13GY	IFP14GY	IFP16GY	IFP26GY	IFP29GY	IFP212GY
Office White	IFP11OW	IFP12OW	IFP13OW	IFP14OW	IFP16OW	IFP26OW	IFP29OW	IFP212OW
Black	IFP11BK	IFP12BK	IFP13BK	IFP14BK	IFP16BK	IFP26BK	IFP29BK	IFP212BK
Electric Ivory	IFP11EI	IFP12EI	IFP13EI	IFP14EI	IFP16EI	IFP26EI	IFP29EI	IFP212EI
White	IFP11W	IFP12W	IFP13W	IFP14W	IFP16W	IFP26W	IFP29W	IFP212W

SSF Stainless Steel Plates

One-Gang					Two-Gang			
1-Port	2-Port	3-Port	4-Port	6-Port	4-Port	6-Port	9-Port	12-Port
SSF11	SSF12	SSF13	SSF14	SSF16	SSF204	SSF206	SSF209	SSF212

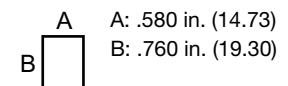
With Label Fields

1-Port	2-Port	3-Port	4-Port	6-Port
SSFL11	SSFL12	SSFL13	SSFL14	SSFL16



Keystone Opening

Hole size for mounting all Hubbell Jacks









NOTE: All SSF plates will accept Audio/Video keystone connectors and Xcelerator™ jacks.







Frames and Plates




Duplex and Style Line® Plates

Description	Color	Catalog No.		
Duplex Plate with label fields (Accepts Duplex Frames)	Almond	IFP18AL		
	Gray	IFP18GY		
	Office White	IFP18OW		
Style Line Plate with label fields (Accepts Style Line Frames)	Almond	IFP126AL		
	Gray	IFP126GY		
	Office White	IFP126OW		





Style Line® Outlet Frames, Unloaded

	2-Port 	3-Port 	4-Port 	6-Port 
Color	Catalog Number			
Almond	ISF2AL	ISF3AL	ISF4AL	ISF6AL
Gray	ISF2GY	ISF3GY	ISF4GY	ISF6GY
Office White	ISF2OW	ISF3OW	ISF4OW	ISF6OW
Black	ISF2BK	ISF3BK	ISF4BK	ISF6BK
Electric Ivory	ISF2EI	ISF3EI	ISF4EI	ISF6EI
White	ISF2W	ISF3W	ISF4W	ISF6W

Style Line Outlet Frames, Loaded

	15-pin 3.5mm Jack 	15-pin XLR 	15-pin D-sub F/F Gender Changer 	15-pin D-sub Screw Terminal 
Color	Catalog Number			
Almond	ISF1535AL	ISFXLRAL	ISFD15AL	ISFD15STAL
Gray	ISF1535GY	ISFXLRGY	ISFD15GY	ISFD15STGY
Office White	ISF1535OW	ISFXLRW	ISFD15OW	ISFD15STOW
Black	ISF1535BK	ISFXLRBK	ISFD15BK	ISFD15STBK
Electric Ivory	ISF1535EI	ISFXLREI	ISFD15EI	ISFD15STEI
White	ISF1535W	ISFXLRW	ISFD15W	ISFD15STW

Outlet Frames

	Duplex 2-Port 	Duplex 4-Port 	Style Line Loaded 4-Port T568B 	Style Line Loaded 4-Port T568A 
Color	Catalog Number			
Almond	BR106AL	Q106AL	—	—
Gray	BR106G	Q106G	—	—
Office White	BR106C	Q106O	—	—
Black	BR106B	Q106B	SL5E4B*	SL5E4A*
Electric Ivory	BR106E	Q106E	—	—
White	BR106W	Q106W	—	—

* SL5E4A and SL5E4B have 4 Cat 5e jacks built into the frame.

Snap Fit Connector Fittings



SFRC110R



SFRRCR



SFRRCRFF



SFSV110BK



SFSVBK



SFBGY



SFFBX



SFRFGOW



SFB10

RCA Connectors

Use to distribute component and composite audio and video signals from device to device. Typical applications include TV, cable, VCR/DVD, camera, camcorder, projector, home theater, and entertainment centers.

110 Punchdown

Insulator Color	Red	White	Yellow	Blue	Green
Black Housing	SFRC110R	SFRC110W	SFRC110Y	SFRC110B	SFRC110GN

Solder Coupler Termination

Insulator Color	Black	Red	White	Yellow	Blue	Green
Office White Housing	SFRC	SFRRCR	SFRCW	SFRRCY	SFRRCBOW	SFRRCGNOW
Other color Housing	SFRC*	SFRRCR*	SFRCW*	SFRRCY*	SFRRCB*	SFRRCGN*

Gold Pass-through, F/F Coupler

Insulator Color	Black	Red	White	Yellow	Blue	Green
Office White Housing	SFRCBKFF	SFRRCRFF	SFRCWFF	SFRRCYFF	SFRRCBFFOW	SFRRCGNFFOW
Other color Housing	SFRCBKFF*	SFRRCRFF*	SFRCWFF*	SFRRCYFF*	SFRRCBFF*	SFRRCGNFF*

* For other housing colors, add "AL" (Almond), "BK" (Black), "EI" (Electric Ivory), "GY" (Gray) or "W" (White) to the end of the catalog number.

S-Video Connectors

Use to transmit video information over a cable by dividing the signal into two separate signals, (chrominance) for color and (luminance) for brightness. Applications include TV, cable, satellite, VCR/DVD, camera, camcorder, projector, home theater, entertainment systems, security and surveillance.

Termination	Almond	Black	Electric Ivory	Gray	Office White	White
110	SFSV110AL	SFSV110BK	SFSV110EI	SFSV110GY	SFSV110OW	SFSV110W
F/F Coupler	SFSVAL	SFSVBK	SFSVEI	SFSVGY	SFSVOW	SFSVW

BNC Connectors

Use to distribute PRO audio/video through coaxial 75 ohm signal to the work area. Applications include TV, CCTV, analog and digital CATV, VCR, HDTV satellite, security and surveillance systems.

Finish	Almond	Black	Electric Ivory	Gray	Office White	White
Nickel	SFBAL	SFBBK	SFBEI	SFBGY	SFBOW	SFBW
Gold	SFBGAL	SFBGBK	SFBGEI	SFBGGY	SFBGOW	SFBGW

F-type Connectors

Use for distributing high quality video signal to the workstation. Requiring no soldering, these F-connectors install with a snap and provide quick, easy "screw-on" termination. Applications include TV, CCTV and CATV, home theater and entertainment systems, satellite, security and surveillance systems, VCR/DVD applications.

F-type Coupler Bulkhead F/F

Finish	Almond	Black	Electric Ivory	Gray	Office White	White
Nickel	SFFALX	SFFBX	SFFEX	SFFGX	SFFX	SFFWX
Gold	SFFGAL	SFFGBK	SFFGEI	SFFGGY	SFFGOW	SFFGW

F-type to RCA Bulkhead F/F

Finish	Office White	White
Gold	SFRFGOW	SFRFGW

Blank Connectors

Sold 10 pieces per package.

Housing Color	Catalog Number	Housing Color	Catalog Number
Almond	SFBAL10	Gray	SFBG10
Black	SFBB10	Office White	SFB10
Electric Ivory	SFBE10	White	SFBW10

Snap Fit Connector Fittings

Gold Speaker Post Connectors and Plugs

Use for distributing audio signal throughout the home, office or to a workstation. Applications include home theater, surround sound systems, entertainment systems, and speaker connections.

Speaker Post Connectors

Ring Color	Housing Color	Catalog Number
Black	Office White	SFSPGBK
Red	Office White	SFSPGR

Speaker Post Plugs

Sold 10 pieces per package.

Color	Catalog Number
Black	SPPBK10
Red	SPPR10



SFSPGR



SPPBK10

3.5mm Stereo Jacks

Use for distributing stereo or mono audio signals to and from devices. Applications include laptop and desktop computer audio I/O output, Pro audio distribution, projectors, and IR (infrared) signal transmission.

Size	Black	Electric Ivory	Gray	Office White	White	Almond
3.5mm	SF35SJBK	SF35SJEI	SF35SJGY	SF35SJ	SF35SJW	SF35SJAL



SF35SJ

USB Connectors

Use to provide a simple and easy way to add a USB 2.0 connection to a work area. Feed-through coupler A-to-A or A-to-B format options available.

USB Connectors

Color	Format	Catalog Number
Blue	A-to-B	SFUSBABB
Red	A-to-A	SFUSBAAB



SFUSBABB

ST Keystone Fiber Adapter

Color	Black	Electric Ivory	Gray	Office White	White	Almond
	SFSTBK	SFSTEI	SFSTG	SFST	SFSTW	SFSTAL

Category 6 Jacks

The XJ6 jack supports 10GbE applications to 55 meters, Gigabit Ethernet in the backbone, and network convergence out to the work area with usable bandwidth of 500 MHz. Sold 1 per bag, carton of 25.

Color	Catalog No.	Color	Catalog No.	Color	Catalog No.
Almond	HXJ6AL	Gray	HXJ6GY	Red	HXJ6R
Black	HXJ6BK	Green	HXJ6GN	White	HXJ6W
Blue	HXJ6B	Office White	HXJ6OW	Yellow	HXJ6Y
Electric Ivory	HXJ6EI	Orange	HXJ6OR		



SFST

Category 5e Jacks

The XJ5e jack supports 10/100/1000BASE-T applications with usable bandwidth of 190 MHz in the channel. Sold 1 per bag, carton of 25.

Color	Catalog No.	Color	Catalog No.	Color	Catalog No.
Almond	HXJ5EAL	Gray	HXJ5EGY	Red	HXJ5ER
Black	HXJ5EBK	Green	HXJ5EGN	White	HXJ5EW
Blue	HXJ5EB	Office White	HXJ5EOW	Yellow	HXJ5EY
Electric Ivory	HXJ5EEI	Orange	HXJ5EOR		



HXJ6GN



HXJ5EBK

6 Position USOC Jacks

The XJU jack supports all low-speed data and voice grade applications. Sold 1 per bag, carton of 25.

Color	Catalog No.	Color	Catalog No.	Color	Catalog No.
Almond	HXJUAL	Gray	HXJUGY	Red	HXJUR
Black	HXJUBK	Green	HXJUGN	White	HXJUW
Blue	HXJUB	Office White	HXJUOW	Yellow	HXJUW
Electric Ivory	HXJUEI	Orange	HXJUOR		



HXJUOW

Keystone Opening

Hole size for mounting all Hubbell jacks and connectors.



A: .580 in. (14.73)





B: .760 in. (19.30)



Hubbell INFINESTATION™ Audio/Video Modules

15-Pin and 9-Pin

Hubbell's expanded line of 15-pin VGA-style connectors are supplied in various INFINESTATION™ module styles to accommodate the industry's growing needs for expansion. Hubbell's 9-pin high-density D-sub modules allow easy access to RS232 control and serial devices. Applications include video distribution, desktop and laptop computers, monitors, cameras and projectors, home theater and entertainment.

	15-pin F/F Gender Changer 1 Unit	15-pin F/Screw Terminal, SVGA 1 Unit	15-pin VGA 3.5mm Stereo Jack 1.5 Unit	9-pin F/F Gender Changer 1 Unit	15-pin Blank, 10-pack 1 Unit
					
Color Office White					
Catalog No.	IM15DIN1OW*	IM15ST1OW*	IM15315OW*	IM9DIN1OW*	IMBDS1OW*

* For other colors, replace "OW" with: "AL" (Almond), "GY" (Gray), "BK" (Black), "EI"(Electric Ivory) or "W" (White).

Note: Order IMDSB1 series blank modules with D-sub connectors for INFINESTATION applications.













	15-pin to 6-pin DIN Whip 10-pack	15-pin Crimp On 10-pack	15-pin Screw Terminal 10-pack	15-pin Gender Changer 10-pack
				
Catalog No.	156P10	15C10	15ST10	15GC10

	DVI F/F Gender Changer 1.5 Unit	DVI to 15-pin 1.5 Unit
		
Color Office White	COMING SOON!	COMING SOON!
Catalog No.	IMDVI15OW*	IM15DVI15OW*

* For other colors, replace "OW" with: "AL" (Almond), "GY" (Gray), "BK" (Black), "EI"(Electric Ivory) or "W" (White).

Audio/Video Modules

Hubbell's wide offering of INFINESTATION™ loaded and unloaded modules is the most extensive Audio/Video solution in the structured cabling industry. Whatever the specification, application or preference, Hubbell's INFINESTATION™ modules answers the call. Applications include Audio/video distribution devices, desktop and laptop computers, cameras and projectors, home theater and entertainment systems. All modules are 1 unit except IMCRS15 series (1.5 unit).

	RCA Component A/V 5 RCAs, Solder 1.5 Unit	RCA Component 3 RCAs, Solder	RCA Component 3 RCAs, Feed-Thru F/F	RCA Audio 2 RCAs, 110 UTP	S-Video, 2 RCAs 110 UTP	Speaker Post
						
Color Office White						
Catalog No.	IMCRS15OW*	IMCRS1OW*	IMCRF1OW*	IMAR1101OW*	IMSR1101OW*	IMSP1OW*
	S-Video, 3.5mm Composite 110 UTP	(3) RCA Component 110 UTP	(3) RCA 110 UTP	RCA A/V Solder-Type	RCA A/V Gold F/F Feed-Thru	RCA 3.5mm Solder
						
Color Office White						
Catalog No.	IMSV351101OW*	IMR1101OW*	IMCR1101OW*	IM3RS1OW*	IM3RF1OW*	IMRSJ1OW*

* For other colors, replace "OW" with: "AL" (Almond), "GY" (Gray), "BK" (Black), "EI"(Electric Ivory) or "W" (White).

Hubbell INFINESTATION Audio/Video Modules

XLR, Speakon® and ¼" Modules

Applications include Video distribution, desktop and laptop computers, monitors, cameras, microphones and projectors, home theater and entertainment. Note: Order **IMAVB15** Series blank modules with AV connectors for INFINESTATION applications.

	AV Blank 1.5 Unit 10-pack	XLR Screw Terminal 10-pack	XLR Solder-Type 10-pack	¼" Stereo Jack Solder-Type 10-pack	Speakon® Conn. Solder-Type 10-pack	USB Feed-Thru A-to-B 10-pack
Color Office White						
Catalog No.	IMAVB15OW*	XLRST10	XLR10	14S10	SC10	USB10

* For other colors, replace "OW" with: "AL" (Almond), "GY" (Gray), "BK" (Black), "EI" (Electric Ivory) or "W" (White).

Unloaded Modules

Applications include Video distribution, desktop and laptop computers, monitors, cameras and projectors, home theater and entertainment.

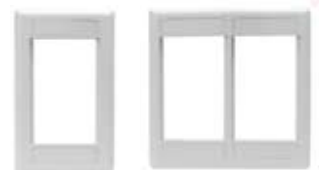
	Keystone 1-port, Flat 1 Unit	Keystone 2-port, Flat 1 Unit	Keystone 1-port, Angled 1.5 Unit	Keystone 2-port, Angled 1.5 Unit	SC Angled 1 Duplex 1.5 Unit	SC Angled 2 Duplex 2 Unit
Color Almond Gray Office White Black Electric Ivory White						
Catalog No.	IM1K1AL IM1K1GY IM1K1OW IM1K1BK IM1K1EI IM1K1W	IM2K1AL IM2K1GY IM2K1OW IM2K1BK IM2K1EI IM2K1W	IM1KA15AL IM1KA15GY IM1KA15OW IM1KA15BK IM1KA15EI IM1KA15W	IM2KA15AL IM2KA15GY IM2KA15OW IM2KA15BK IM2KA15EI IM2KA15W	IM1SCA15AL IM1SCA15GY IM1SCA15OW IM1SCA15BK IM1SCA15EI IM1SCA15W	IM2SCA2AL IM2SCA2GY IM2SCA2OW IM2SCA2BK IM2SCA2EI IM2SCA2W

	Blank 0.5 Unit	Blank 1 Unit	Blank 1.5 Unit	Keystone Recessed angle 1-Port, 1.5 Unit	Keystone Recessed angle 2-Port, 1.5 Unit
Color Almond Gray Office White Black Electric Ivory White					
Catalog No.	IMB05AL IMB05GY IMB05OW IMB05BK IMB05EI IMB05W	IMB1AL IMB1GY IMB1OW IMB1BK IMB1EI IMB1W	IMB15AL IMB15GY IMB15OW IMB15BK IMB15EI IMB15W	IM1IA15AL IM1IA15GY IM1IA15OW - - -	IM2IA15AL IM2IA15GY IM2IA15OW - - -

IMF INFINESTATION Frames

The IMF series accepts INFINESTATION modules in 3 unit combinations for single-gang and 6 unit combinations for two-gang applications. Start by selecting a frame and then the required mix of modules.

Color	Catalog Number		Color	Catalog Number	
	One Gang	Two Gang		One Gang	Two Gang
Almond	IMF1AL	IMF2AL	Black	IMF1BK	IMF2BK
Gray	IMF1GY	IMF2GY	Electric Ivory	IMF1EI	IMF2EI
Office White	IMF1OW	IMF2OW	White	IMF1W	IMF2W



ANSI/TIA/EIA-569B: Telecommunications Pathways and Spaces

The applications below are supported by this standard. The 569B standard incorporates all previous addenda to the 569A

569B: Surface (Perimeter) Raceway Systems

- May contain work area outlets at desired locations.
- Include the base channel, cover, fittings and outlet accessories.
- May be either single channel or multi-channel with dividers.
- Are designed to maintain 25mm (1 in.) minimum cable bend radius.
- Can be installed as baseboard, chair rail, or ceiling runs with vertical feeders.
- Support single or multiple room distribution.
- Should be sized at 40% max cable fill to accommodate future expansion.

NOTE: Metallic raceway systems shall be properly bonded to ground per J-STD-607-A. Never combine power and data cabling within a single raceway channel.



Non-Metallic Raceway

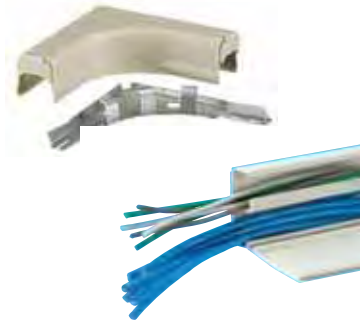


Metal Raceway

569B: Furniture Pathways and Spaces

- Separation requirements apply for power and data cabling.
- Furniture pathways shall have a minimum cross section area of 9.5 cm² (1.5 in²).
- This specification is based on a work area cluster serving four persons with three outlet connections each.

NOTE: The usable cross sectional area may be reduced by bend radius limits of the installed cables.



569B: Access Floor Pathways and Spaces

- Standard access floors shall have a minimum of 150mm (6in.) finished floor height.
- A floor height of 200mm (8in.) is the recommended clearance for cable trays.
- The free space above any cable tray or raceway under an access floor must allow for easy removal of covers.
- Connecting hardware is prohibited below the access floor, however a consolidation point is permitted as an exception.
- Locate penetration points and floor outlets away from office traffic.
- All standards apply for separation of power and data cables.



Connexion

569B: Poke-Thru Fittings

- A poke-thru device is used for penetration of building cabling through above-grade structural floors. Typically available in flush or raised configurations.
- Maintain fire rating of the floor after installation.
- Provide power and/or data service ports in limited capacity.

NOTE: Contact a Structural Engineer before penetrating load-bearing floors



SystemOne
FRPT

ScrubShield™ 2x2
FRPT

Large Capacity,
FRPT

Standard UTP Wiring Conventions

Horizontal UTP Cable and Patch Cords

- Solid copper 4-pair 24 AWG UTP is specified for distribution cabling. Stranded UTP is specified for patch cords for flexibility. Shielded cable is not commonly used in the U.S. Splices bridge taps are not permitted.
- Cable, connectors and patch cords shall be marked with the performance category.
- Always match performance categories of cables and components throughout the infrastructure.
- All cable, cords and connecting hardware shall meet performance requirements of ANSI/TIA/EIA-568-B.1 and 568-B.2. Hubbell assures this compliance with all products and cable partners.

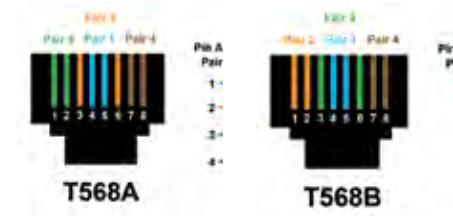
COLOR CODING:

	white-blue/blue
	white-orange/orange
	white-green/green
	white-brown/brown

Recognized Connector and Wiring Configurations

- 8-position modular jack/plug.
- 8-position modular panel/plug.
- T568A wiring or T568B wiring options.
- Cat 5e or Cat 6 recommended.

NOTE: Be sure that the patch cord wiring matches the cable infrastructure configuration.



RJ 45 - TIA/EIA-568 Conventions

Two wiring standards were adopted. Both configurations are based on maximum transmission performance.



- Preferred method
- Directly compatible with 2-pair voice and Token Ring systems utilizing 6-position connectors



- Optional method
- AT&T's standard
- Directly compatible with AT&T phone systems

LAN Wiring Conventions

Local Area Network standards designed to operate over UTP specify pin/pair assignments on modular connectors for various signal transmission protocols. While TIA/EIA-568A and 568B conventions support all these designations, there are some cases where the user chooses to cable only the number of pairs required to support these applications.



- 10 Mbps Ethernet over UTP
- Uses only two pairs
- 100 Mbps Ethernet



- 4/16 Mbps Token Ring over copper
- Uses only two pairs



- 100 Mbps FDDI over copper (pending)
- Uses only two pairs



- 1000 Mbps Ethernet over UTP
- Uses all four pairs

Recommended UTP Installation Practices

- Use the proper strip tool for the cable jacket. Don't cut into the conductor pairs.
- Position the stripped cable jacket as close as possible to the termination point to minimize exposure of the twisted pairs.
- Maintain the natural twist of all conductor pairs as close as possible to the termination point. For Category 5e and 6 wiring, the maximum length of un-twisted pairs is 0.5". Minimum un-twisting optimizes Return Loss performance.
- Never un-coil UTP cable from a stationary spool. Permanent kinks will result from straightening, and NEXT failures may occur. Unwind the cable by rotating the spool with steady speed and tension. Also avoid scraping and kinking when feeding into conduit or raceway.
- Allow 12" of cable slack behind wall outlets for future re-termination.
- Use proper supports and spacing to minimize sag in horizontal runs. Long runs should use raceways or cable trays. Do not overload cable supports and trays.
- Avoid EMI by maximizing the separation distance from high voltage circuits, transformers, motors, etc. For shared pathways, use partitioned raceway with physical separation between power wiring and UTP.
- Do not run UTP cables over heater ducts or hot water ducts. High temperatures will degrade performance and deteriorate the cable jacket.
- Centralize TR's to equalize the horizontal cable runs on each floor. Maximum horizontal distance is 90 meters. Very short horizontal runs can increase NEXT.
- Never use staples to position cables.
- Use good cable management practices to maintain proper bend radius.
- Place long-run service loops in a large "figure-eight" pattern to minimize induced noise.
- For Category 5e and 6 cabling, store service loops in a figure "8" pattern to minimize cross-talk and EMI noise pick-up.
- Maintain proper bend radius inside all outlet boxes.
- For best results, use the zip cord and peel away the cable jacket.
- All grounding and bonding shall be according to J-STD-607-A.

Do's



Maintain a maximum bend radius of 4x the cable diameter (4-pair cables)



Apply cable ties loosely and at random intervals



Try to minimize the amount of jacket twisting



Avoid stretching the cable

Don'ts



Never exceed a 90 degree bend



Don't over-tighten cable ties



Don't over-twist cable, it can lead to torn jackets



Don't exceed 25 lbs. of pulling tension

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