

**Hubbell Wiring Systems
Delivery Systems Product Guide
Power-Data-Voice-Audio Accessories Section**



WIRING SYSTEMS
Wiring Device-Kellems
Premise Wiring

	Page
Receptacles	110
Switches	112
Twist-Lock®	113
Plates	114
Frames.	115
Snap Fit	
Data Products.	116
INFINESTATION™	
Data Products.	118





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 Nylon Face	Orange	CR5252IG	CR5352IG		
	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 Nylon Face	Brown	CRO15	CRO20
	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 Nylon Face	Brown	HBL2152	HBL2162
	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



CS1201I



CS1221



CS115I



CS120



HBL2101AL

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	—

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

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	—

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	—

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	—

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

Duplex, flush, brown RTP face
IG duplex, orange RTP face
Single, flush black nylon face
IG single, flush orange nylon face



L5-15R
15A 125V

HBL4700
IG4700A
HBL4710
IG4710



L6-15R
15A 250V

HBL4550
IG4550A
HBL4560
IG4560



HBL4700

20 Amp Devices

2 Pole, 3 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L5-20R
20A 125V

HBL2310
IG2310



L6-20R
20A 250V

HBL2320
IG2320



L8-20R
20A 480V

HBL2340
IG2340



HBL2310

3 Pole, 4 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L14-20R
20A 125/250V

HBL2410
IG2410



L15-20R
20A 3Ø 250V

HBL2420
IG2420



L16-20R
20A 3Ø 480V

HBL2430
—



HBL2410

4 Pole, 5 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L21-20R
20A 3ØY
120/208V

HBL2510
IG2510



L22-20R
20A 3ØY
277/480V

HBL2520
—



L23-20R
20A 3ØY
347/600V

HBL2530
—



HBL2510

30 Amp Devices

2 Pole, 3 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L5-30R
30A 125V

HBL2610
IG2610



L6-30R
30A 250V

HBL2620
IG2620



L8-30R
30A 480V

HBL2640
—



HBL2620

3 Pole, 4 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L14-30R
30A 125/208V

HBL2710
IG2710



L15-30R
30A 3Ø 250V

HBL2720
IG2720



L16-30R
30A 3Ø 480V

HBL2730
—



HBL2710

4 Pole, 5 Wire Grounding

Description

Single, flush black nylon face
IG single, flush orange nylon face



L21-30R
30A 3ØY
120/208V

HBL2810
IG2810



L22-30R
30A 3ØY
277/480V

HBL2820
—



L23-30R
30A 3ØY
347/600V

HBL2830
—



HBL2810



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								
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

A	.580 in. (14.73)
B	.760 in. (19.30)

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



Nobody delivers like Hubbell Commercial Solutions

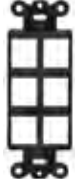


Frames and Plates

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

COMING
SOON!



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	HXJUY
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*	Color Office White Catalog No. IM15ST1OW*	Color Office White Catalog No. IM15315OW*	Color Office White Catalog No. IM9DIN1OW*	Color Office White Catalog No. 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.

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 Catalog No.	COMING SOON! IMDVI15OW*	COMING SOON! IM15DVI15OW*			
* For other colors, replace "OW" with: "AL" (Almond), "GY" (Gray), "BK" (Black), "EI" (Electric Ivory) or "W" (White).					

* 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*	Color Office White Catalog No. IMCRS1OW*	Color Office White Catalog No. IMCRF1OW*	Color Office White Catalog No. IMAR1101OW*	Color Office White Catalog No. IMSR1101OW*	Color Office White Catalog No. 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*	Color Office White Catalog No. IMR1101OW*	Color Office White Catalog No. IMCR1101OW*	Color Office White Catalog No. IM3RS1OW*	Color Office White Catalog No. IM3RF1OW*	Color Office White Catalog No. 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 A/V 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	IM2K1AL	IM1KA15AL	IM2KA15AL	IM1SCA15AL	IM2SCA2AL
	IM1K1GY	IM2K1GY	IM1KA15GY	IM2KA15GY	IM1SCA15GY	IM2SCA2GY
	IM1K1OW	IM2K1OW	IM1KA15OW	IM2KA15OW	IM1SCA15OW	IM2SCA2OW
	IM1K1BK	IM2K1BK	IM1KA15BK	IM2KA15BK	IM1SCA15BK	IM2SCA2BK
	IM1K1EI	IM2K1EI	IM1KA15EI	IM2KA15EI	IM1SCA15EI	IM2SCA2EI
	IM1K1W	IM2K1W	IM1KA15W	IM2KA15W	IM1SCA15W	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	IMB1AL	IMB15AL	IM1IA15AL	IM2IA15AL
	IMB05GY	IMB1GY	IMB15GY	IM1IA15GY	IM2IA15GY
	IMB05OW	IMB1OW	IMB15OW	IM1IA15OW	IM2IA15OW
	IMB05BK	IMB1BK	IMB15BK	-	-
	IMB05EI	IMB1EI	IMB15EI	-	-
	IMB05W	IMB1W	IMB15W	-	-

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.

	Catalog Number			Catalog Number	
Color	One Gang	Two Gang	Color	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.

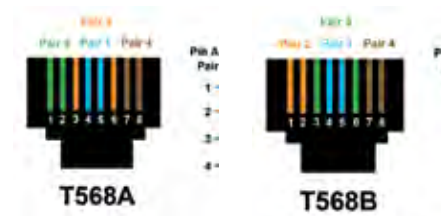
COLOR CODING:

	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.

8 Position / 8 Wire



T568A

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

8 Position / 8 Wire



T568B

- 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.

8 Position / 4 Wire



10/100BASE-T

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

8 Position / 4 Wire



Token Ring

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

8 Position / 4 Wire



TP-PMD

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

8 Position / 8 Wire



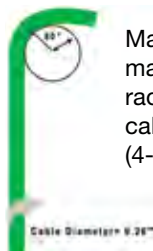
1000BASE-T (T568A)

- 1000 Mbps Ethernet over UTP
- Uses all four pairs



- 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

Index



Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
97071	114	BA2423	77	CR5352GY	110	CS1221BK	112	FR280GYA	93
97101	114	BA2431	77	CR5352I	110	CS1221GY	112	FR480BKA	93
14S10	119	BA2432	77	CR5352IG	110	CS1221I	112	FR480GYA	93
156P10	118	BA2433	77	CR5352IGBK	110	CS1221OW	112	FR680BKA	93
15C10	118	BA2436	76	CR5352IGBL	110	CS1221R	112	FR680GYA	93
15GC10	118	BA2527	73	CR5352IGGY	110	CS1221W	112	FR80AL	94
15ST10	118	BA2529	73	CR5352IGI	110	CS1222	112	FRBR1	94
3SFBB	80	BA2536	73	CR5352IGOW	110	CS1222BK	112	FRF1BK	92
3SFBC	80	BA2537	73	CR5352IGW	110	CS1222GY	112	FRF1BRS	92
3SFBCBKA	80	BA4233	76	CR5352OW	110	CS1222I	112	FRF1GY	92
3SFBCBRA	80	BA4333	76	CR5352R	110	CS1222OW	112	FRF3BK	92
3SFBCGYA	80	BP1	114	CR5352W	110	CS1222R	112	FRF3GY	92
3SFBCIA	80	BP2	114	CR5362	110	CS1222W	112	FRF3I	92
3SFBD	80	BP26	114	CR5362BK	110	CS1223	112	FRFBLA	91
3SFBIM	80	BP262	114	CR5362BL	110	CS1223AL	112	FRFBRA	91
3SFBIRP	80	BP8	114	CR5362GY	110	CS1223BK	112	FRFBRS2A	91
3SFBSS	80	BP82	114	CR5362I	110	CS1223GY	112	FRFGYA	91
3SFBSS	80	BR106AL	42, 115	CR5362OW	110	CS1223I	112	FRFIA	91
3SFBTP	80	BR106B	115	CR5362R	110	CS1223OW	112	FRP250	94
4050GY	42	BR106C	65, 115	CR5362W	110	CS1223R	112	GFR5252A	111
4050IV	42	BR106E	115	CRF15	110	CS1223W	112	GFR5252ALA	111
A1	114	BR106G	42, 115	CRF15AL	110	CS1224	112	GFR5252ALL	111
A2	114	BR106W	115	CRF15BLK	110	CS1224AL	112	GFR5252AST	111
A8	114	BRS2RCA	91	CRF15GRY	110	CS1224BK	112	GFR5252BKA	111
A82	114	CH1	114	CRF15I	110	CS1224GY	112	GFR5252BKL	111
AFB301	98	CH2	114	CRF15OW	110	CS1224I	112	GFR5252BKST	111
AFB401	98	CH26	114	CRF15WHI	110	CS1224OW	112	GFR5252GYA	111
AFB501	98	CH262	114	CRF20	110	CS1224R	112	GFR5252GYL	111
AP22	94	CH8	114	CRF20AL	110	CS1224W	112	GFR5252GYST	111
AP2GY	94	CH82	114	CRF20BLK	110	CS315	112	GFR5252IA	111
AP2I	94	CR15	110	CRF20GRY	110	CS315AL	112	GFR5252IL	111
AP42	94	CR15AL	110	CRF20OW	110	CS315GY	112	GFR5252IST	111
ATB	106	CR15BLK	110	CRF20WHI	110	CS315I	112	GFR5252L	111
B1	114	CR15GRY	110	CRO15	110	CS315OW	112	GFR5252OWA	111
B2	114	CR15I	110	CRO15GRY	110	CS315W	112	GFR5252OWL	111
B2414	76	CR15OW	110	CRO15I	110	CS320	112	GFR5252OWST	111
B2421	77	CR15WHI	110	CRO15WHI	110	CS320AL	112	GFR5252RA	111
B2422	77	CR20	110	CRO20	110	CS320GY	112	GFR5252RL	111
B2423	77	CR20AL	110	CRO20BLK	110	CS320I	112	GFR5252RST	111
B2431	77	CR20BLK	110	CRO20GRY	110	CS320OW	112	GFR5252ST	111
B2432	77	CR20GRY	110	CRO20I	110	CS320W	112	GFR5252WA	111
B2433	77	CR20I	110	CRO20WHI	110	EXT13	94	GFR5252WL	111
B2436	76	CR20OW	110	CS115	112	EXT33201FO8W	98	GFR5252WST	111
B243641	76	CR20WHI	110	CS115AL	112	EXT33201MO8W	98	GFR5352A	111
B2481	81	CR5252	110	CS115GY	112	EXT33205FF8W	98	GFR5352ALA	111
B2482	81	CR5252AL	110	CS115I	112	EXT33210FF8W	98	GFR5352ALL	111
B2483	81	CR5252BK	110	CS115OW	112	EXT33215FF8W	98	GFR5352AST	111
B2506	73	CR5252GY	110	CS115W	112	EXT33215FO8W	98	GFR5352BKA	111
B2506415	73	CR5252I	110	CS120	112	EXT33215MO8W	98	GFR5352BKL	111
B2527	73	CR5252IG	110	CS1201	112	EXT33220FF8W	98	GFR5352BKST	111
B2529	73	CR5252IGBK	110	CS1201AL	112	EXT42201FO8W	98	GFR5352GYA	111
B2536	73	CR5252IGGY	110	CS1201GY	112	EXT42201MO8W	98	GFR5352GYL	111
B253641	73	CR5252IGI	110	CS1201I	112	EXT42205FF8W	98	GFR5352GYST	111
B2537	73	CR5252IGOW	110	CS1201OW	112	EXT42210FF8W	98	GFR5352IA	111
B2588	81	CR5252IGW	110	CS1201W	112	EXT42215FF8W	98	GFR5352IL	111
B2588275	81	CR5252OW	110	CS1203	112	EXT42215FO8W	98	GFR5352IST	111
B26	114	CR5252R	110	CS1203AL	112	EXT42215MO8W	98	GFR5352L	111
B262	114	CR5252W	110	CS1203GY	112	EXT42220FF8W	98	GFR5352OWA	111
B4214	76	CR5262	110	CS1203I	112	FASCMPEB6	43, 65	GFR5352OWL	111
B4233	76	CR5262BK	110	CS1203OW	112	FASTSCMPB6	43, 65	GFR5352OWST	111
B423341	76	CR5262GY	110	CS1203W	112	FF2BK	92	GFR5352RA	111
B4314	76	CR5262I	110	CS120AL	112	FF2BRS	92	GFR5352RL	111
B4333	76	CR5262OW	110	CS120GY	112	FF2GY	92	GFR5352RST	111
B433361	76	CR5262R	110	CS120I	112	FF3GY	94	GFR5352ST	111
B8	114	CR5262W	110	CS120OW	112	FF3I	94	GFR5352WA	111
B82	114	CR5352	110	CS120W	112	FJB332	98	GFR5352WL	111
BA2421	77	CR5352AL	110	CS1221	112	FJB422	98	GFR5352WST	111
BA2422	77	CR5352BK	110	CS1221AL	112	FR280BKA	93	HLB2101	112



Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
HBL2101AL.....	112	HBL317SGY78, 99, 103		HBLNO309SI.....99, 103		HBLTO310SBK.....99, 103		HXJ6BK.....	43, 65, 117
HBL2101GY.....	112	HBL317SI.....99, 103		HBLNO309SWA.....99, 103		HBLTO310SGY.....78, 99,		HXJ6EI.....	43, 65, 117
HBL2101I.....	112	HBL317SWA.....99, 103		HBLOR306SBK.....99, 103		103		HXJ6GN.....	43, 65, 117
HBL2101OW.....	112	HBL4550.....113		HBLOR306SGY.....78, 99,		HBLTO310SI.....99, 103		HXJ6GY.....	43, 65, 117
HBL2101W.....	112	HBL4700.....113		103		HBLTO310SWA.....99, 103		HXJ6OR.....	43, 65, 117
HBL2103.....	112	HBL4710.....113		HBLOR306SI.....99, 103		HBLTRIM1WBK....102, 104		HXJ6OW.....	43, 65, 117
HBL2103.....	112	HBL5260ISA.....111		HBLOR306SWA.....99, 103		HBLTRIM1WGY....102, 104		HXJ6R.....	43, 65, 117
HBL2103 OW.....	112	HBL5260OWSA.....111		HBLORT322SBK....99, 103		HBLTRIM1WI.....102, 104		HXJ6W.....	43, 65, 117
HBL2103AL.....	112	HBL5260SA.....111		HBLORT322SGY.....78, 99,		HBLTRIM1WWA....102, 104		HXJ6Y.....	43, 65, 117
HBL2103AL.....	112	HBL5262ALSA.....111		103		HBLTRIM2WBK....102, 104		HXJUAL.....	43, 65, 117
HBL2103GY.....	112	HBL5262GYSA.....111		HBLORT322SI.....99, 103		HBLTRIM2WGY....102, 104		HXJUB.....	43, 65, 117
HBL2103GY.....	112	HBL5262ISA.....111		HBLORT322SWA...99, 103		HBLTRIM2WI.....102, 104		HXJUBK.....	43, 65, 117
HBL2103I.....	112	HBL5262OWSA.....111		HBLPA308SBK.....99, 103		HBLTRIM2WWA....102, 104		HXJUEI.....	43, 65, 117
HBL2103I.....	112	HBL5262SA.....111		HBLPA308SGY.....78, 99,		HBLTRIM3WBK....102, 104		HXJUGN.....	43, 65, 117
HBL2103OW.....	112	HBL5262WSA.....111		103		HBLTRIM3WGY....102, 104		HXJUGY.....	43, 65, 117
HBL2103W.....	112	HBL5360ISA.....111		HBLPA308SI.....99, 103		HBLTRIM3WI.....102, 104		HXJUOR.....	43, 65, 117
HBL2103W.....	112	HBL5360OWSA.....111		HBLPA308SWA.....99, 103		HBLTRIM3WWA...102, 104		HXJUOW.....	43, 65, 117
HBL2121.....	112	HBL5360SA.....111		HBLPP10A.....106		HBLTRIM4WBK....102, 104		HXJUR.....	43, 65, 117
HBL2121AL.....	112	HBL5362ALSA.....111		HBLPP10AAL.....106		HBLTRIM4WGY....102, 104		HXJUR.....	43, 65, 117
HBL2121GY.....	112	HBL5362GYSA.....111		HBLPP10AI.....106		HBLTRIM4WI.....102, 104		HXJUY.....	43, 65, 117
HBL2121I.....	112	HBL5362ISA.....111		HBLPP10IGA.....106		HBLTRIM4WWA....102, 104		IFP11AL.....	114
HBL2121OW.....	112	HBL5362OWSA.....111		HBLPP10IGAI.....106		HBLTRIM6WBK....102, 104		IFP11BK.....	114
HBL2121W.....	112	HBL5362SA.....111		HBLPP10SA.....106		HBLTRIM6WGY....102, 104		IFP11EI.....	114
HBL2122.....	112	HBL5362WSA.....111		HBLPP10SAI.....106		HBLTRIM6WI.....102, 104		IFP11GY.....	114
HBL2122AL.....	112	HBLAFB301BASE.....99		HBLPP12A.....106		HBLTRIM6WWA...102, 104		IFP11OW.....	114
HBL2122GY.....	112	HBLAFB401BASE.....99		HBLPP12AAL.....106		HBLWCS1.....102, 104		IFP11W.....	114
HBL2122I.....	112	HBLAFB501BASE.....99		HBLPP12AI.....106		HBLWCS1MBD...102, 104		IFP126AL.....	42, 115
HBL2122OW.....	112	HBLAM303SBK.....99, 103		HBLPP15A.....106		HBLWCS2.....102, 104		IFP126GY.....	42, 115
HBL2122W.....	112	HBLAM303SGY.....78, 99,		HBLPP15AAL.....106		HBLWCS2MBD...102, 104		IFP126OW.....	65, 115
HBL2124.....	112	103		HBLPP15AI.....106		HBLWCS2MMO...102, 104		IFP12AL.....	42, 114
HBL2124AL.....	112	HBLAM303SI.....99, 103		HBLPP12A.....106		HBLWCS3.....102, 104		IFP12BK.....	114
HBL2124GY.....	112	HBLAM303SWA.....99, 103		HBLPPO12AAL.....106		HBLWCS3MBD...102, 104		IFP12EI.....	114
HBL2124I.....	112	HBLAMP313SBK...99, 103		HBLPPO12AI.....106		HBLWCS3MMO...102, 104		IFP12GY.....	42, 114
HBL2124OW.....	112	HBLAMP313SGY.....78, 99,		HBLPPO15A.....106		HBLWCS4.....102, 104		IFP12OW.....	65, 114
HBL2124W.....	112	103		HBLPPO15AAL.....106		HBLWCS4MBD...102, 104		IFP12W.....	114
HBL2152.....	110	HBLAMP313SI.....99, 103		HBLPPO15AI.....106		HBLWCS4MMO...102, 104		IFP13AL.....	42, 114
HBL2152AL.....	110	HBLAMP313SWA...99, 103		HBLPPOAAL.....106		HBLWCS6.....102, 104		IFP13BK.....	114
HBL2152BK.....	110	HBLBL300SBK.....99, 103		HBLPPOAI.....106		HBLWCS6MBD...102, 104		IFP13EI.....	114
HBL2152GY.....	110	HBLBL300SGY.....78, 99,		HBLSCSBMBD....102, 104		HBLWCS6MMO...102, 104		IFP13GY.....	42, 114
HBL2152I.....	110	103		HBLSCSBW.....102		HPS1.....114		IFP13OW.....	65, 114
HBL2152OW.....	110	HBLBL300SI.....99, 103		HBLSI305SBK.....99, 103		HPS1AL.....114		IFP13W.....	114
HBL2152WA.....	110	HBLBL300SWA.....99, 103		HBLSI305SGY.....78, 99,		HPS1B.....114		IFP14AL.....	42, 114
HBL2162.....	110	HBLCFB301BASE.....78		103		HPS1GY.....114		IFP14BK.....	114
HBL2162AL.....	110	HBLCFB401BASE.....78		HBLSI305SI.....99, 103		HPS1I.....114		IFP14EI.....	114
HBL2162BK.....	110	HBLCFB401CB.....78		HBLSI305SWA.....99, 103		HPS1OW.....114		IFP14GY.....	42, 114
HBL2162GY.....	110	HBLCFB501BASE.....78		HBLSI315SBK.....99, 103		HPS1R.....114		IFP14OW.....	65, 114
HBL2162I.....	110	HBLDE301SBK.....99, 103		HBLSI315SGY.....78, 99,		HPS1WA.....114		IFP14W.....	114
HBL2162OW.....	110	HBLDE301SGY.....78, 99,		103		HPS2.....114		IFP16AL.....	42, 114
HBL2162WA.....	110	103		HBLSI315SI.....99, 103		HPS2AL.....114		IFP16BK.....	114
HBL2310.....	113	HBLDE301SI.....99, 103		HBLSI315SWA.....99, 103		HPS2B.....114		IFP16EI.....	114
HBL2320.....	113	HBLDE301SWA.....99, 103		HBLST302SBK.....99, 103		HPS2GY.....114		IFP16GY.....	42, 114
HBL2340.....	113	HBLIMFSBK.....99		HBLST302SGY.....78, 99,		HPS2I.....114		IFP16OW.....	65, 114
HBL2410.....	113	HBLIMFSGY.....78, 99		103		HPS2OW.....114		IFP16W.....	114
HBL2420.....	113	HBLIMFSI.....99		HBLST302SI.....99, 103		HPS2R.....114		IFP18AL.....	42, 115
HBL2430.....	113	HBLIMFSWA.....99		HBLST302SWA.....99, 103		HPS2WA.....114		IFP18GY.....	42, 115
HBL2510.....	113	HBLKR314SBK.....99, 103		HBLTCGNT.....99		HXJ5EAL.....43, 65, 117		IFP18OW.....	65, 115
HBL2520.....	113	HBLKR314SGY.....78, 99,		HBLTCGNTBK.....99		HXJ5EB.....43, 65, 117		IFP212AL.....	114
HBL2530.....	113	103		HBLTCGNTBKSW.....78		HXJ5EBK.....43, 65, 117		IFP212BK.....	114
HBL2610.....	113	HBLKR314SI.....99, 103		HBLTCGNTSW.....78		HXJ5EEI.....43, 65, 117		IFP212EI.....	114
HBL2620.....	113	HBLKR314SWA.....99, 103		HBLTL318GY.....78		HXJ5EGN.....43, 65, 117		IFP212GY.....	114
HBL2640.....	113	HBLLT309SBK.....99, 103		HBLTL318SBK.....99		HXJ5EGY.....43, 65, 117		IFP212OW.....	65, 114
HBL2710.....	113	HBLLT309SGY.....78, 99,		HBLTL318SGY.....99		HXJ5EOR.....43, 65, 117		IFP212W.....	114
HBL2720.....	113	103		HBLTL318SI.....99		HXJ5EOW.....43, 65, 117		IFP26AL.....	114
HBL2730.....	113	HBLLT309SI.....99, 103		HBLTL318SWA.....99		HXJ5ER.....43, 65, 117		IFP26BK.....	114
HBL2810.....	113	HBLLT309SWA.....99, 103		HBLTL319SBK.....99		HXJ5EW.....43, 65, 117		IFP26EI.....	114
HBL2820.....	113	HBLNO309SBK.....99, 103		HBLTL319SGY.....78, 99		HXJ5EY.....43, 65, 117		IFP26GY.....	114
HBL2830.....	113	HBLNO309SGY.....78, 99,		HBLTL319SI.....99		HXJ6AL.....43, 65, 117		IFP26OW.....	65, 114
HBL317SBK.....	99, 103	103		HBLTL319SWA.....99		HXJ6B.....43, 65, 117		IFP26W.....	114

Index



Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
IFP29AL.....	114	IM2KA15EI.....	119	ISF1535GY.....	115	KP7.....	65	P8W.....	114
IFP29BK.....	114	IM2KA15GY.....	43, 119	ISF1535OW.....	115	KP720.....	65	P8X.....	114
IFP29EI.....	114	IM2KA15I.....	119	ISF1535W.....	115	KP720AL.....	42	PDCS332.....	98
IFP29GY.....	114	IM2KA15OW.....	65, 119	ISF2AL.....	42, 115	KP720GY.....	42	PDCS42222.....	98
IFP29OW.....	65, 114	IM2KA15W.....	119	ISF2BK.....	115	KP7AL.....	42	PDCS42231.....	98
IFP29W.....	114	IM2SCA2AL.....	43, 119	ISF2EI.....	115	KP7GY.....	42	PFB1.....	72
IG2310.....	113	IM2SCA2BK.....	119	ISF2GY.....	42, 115	KP8.....	65	PFB1A.....	72
IG2320.....	113	IM2SCA2EI.....	119	ISF2OW.....	65, 115	KP82.....	65	PFBCKBA.....	72
IG2340.....	113	IM2SCA2GY.....	43, 119	ISF2W.....	115	KP8AL.....	42	PFBCKBRA.....	72
IG2410.....	113	IM2SCA2I.....	119	ISF3AL.....	42, 115	KP8GY.....	42	PFBCKGYA.....	72
IG2420.....	113	IM2SCA2OW.....	65, 119	ISF3BK.....	115	KPIMBZAL.....	42	PFBCKIA.....	72
IG2510.....	113	IM2SCA2W.....	119	ISF3EI.....	115	KPIMBZGY.....	42	PFBP1.....	72
IG2610.....	113	IM3RF1OW.....	118	ISF3GY.....	42, 115	KPIMBZOW.....	65	PFBP826GYA.....	74
IG2620.....	113	IM3RS1OW.....	118	ISF3OW.....	65, 115	LCFBCA.....	79	PFBPAC.....	75
IG2710.....	113	IM9DIN1OW.....	118	ISF3W.....	115	LCFBCALC.....	79	PFBPBCBLA.....	91
IG2720.....	113	IMAR1101OW.....	118	ISF4AL.....	42, 115	LCFBCALT.....	79	PFBPBCBRA.....	91
IG2810.....	113	IMAVB15AL.....	119	ISF4BK.....	115	LCFBCALTC.....	79	PFBPBCGYA.....	91
IG4550A.....	113	IMAVB15BK.....	119	ISF4EI.....	115	LCFBCBKA.....	79	PFBPBCIA.....	91
IG4700A.....	113	IMAVB15EI.....	119	ISF4GY.....	42, 115	LCFBCBKC.....	79	PFBPFGY1.....	74
IG4710.....	113	IMAVB15GY.....	119	ISF4OW.....	65, 115	LCFBCBKT.....	79	PFBPFGY2.....	74
IG5262.....	111	IMAVB15OW.....	119	ISF4W.....	115	LCFBCBKTC.....	79	PFBPFGY3.....	74
IG5262GY.....	111	IMAVB15W.....	119	ISF6AL.....	42, 115	LCFBCBRA.....	79	PFBPFRFA.....	74
IG5262I.....	111	IMB05AL.....	43, 119	ISF6BK.....	115	LCFBCBRSC.....	79	PFBPGR1.....	74-75
IG5262R.....	111	IMB05BK.....	119	ISF6EI.....	115	LCFBCBRST.....	79	PFBPGR2.....	74-75
IG5362.....	111	IMB05EI.....	119	ISF6GY.....	42, 115	LCFBCBRSTC.....	79	PFBPGR3.....	74-75
IG5362GY.....	111	IMB05GY.....	43, 119	ISF6OW.....	65, 115	LCFBCGYA.....	79	PFBPRMC.....	74
IG5362I.....	111	IMB05I.....	119	ISF6W.....	115	LCFBCGYC.....	79	PFBT1A.....	72
IG5362R.....	111	IMB05OW.....	65, 119	ISFD15AL.....	115	LCFBCGYT.....	79	PFBYA1.....	72
IG5362W.....	111	IMB05W.....	119	ISFD15BK.....	115	LCFBCGYTC.....	79	PPTRIM1.....	106
IM15315OW.....	118	IMB15AL.....	43, 119	ISFD15EI.....	115	LCFBCIA.....	79	PT27A.....	93
IM15DIN1OW.....	118	IMB15BK.....	119	ISFD15GY.....	115	LCFBIM.....	79	PT2FIT.....	92
IM15ST1OW.....	118	IMB15EI.....	119	ISFD15OW.....	115	LCFBP14.....	79	PT2X2BL.....	90
IM1IA15AL.....	119	IMB15GY.....	43, 119	ISFD15STAL.....	115	LCFBP26.....	79	PT2X2BRS.....	90
IM1IA15GY.....	119	IMB15I.....	119	ISFD15STBK.....	115	LCFBP720.....	79	PT2X2BRS3.....	90
IM1IA15OW.....	119	IMB15OW.....	65, 119	ISFD15STEI.....	115	LCFBP8.....	79	PT2X2CBL.....	90
IM1K1AL.....	43, 119	IMB15W.....	119	ISFD15STGY.....	115	LCFBSSA.....	79	PT2X2CBRS.....	90
IM1K1BK.....	119	IMB1AL.....	43, 119	ISFD15STOW.....	115	P1.....	114	PT2X2CCGY.....	90
IM1K1EI.....	119	IMB1BK.....	119	ISFD15STW.....	115	P1AL.....	114	PT2X2FIT.....	90
IM1K1GY.....	43, 119	IMB1EI.....	119	ISFD15W.....	115	P1B.....	114	PT2X2GY.....	90
IM1K1I.....	119	IMB1GY.....	43, 119	ISFXLRAL.....	115	P1G.....	114	PT2X2IGBL.....	90
IM1K1OW.....	65, 119	IMB1I.....	119	ISFXLRBK.....	115	P1OW.....	114	PT2X2IGBRS.....	90
IM1K1W.....	119	IMB1OW.....	65, 119	ISFXLREI.....	115	P1R.....	114	PT2X2IGBRS3.....	90
IM1KA15AL.....	43, 119	IMB1W.....	119	ISFXLRGY.....	115	P1W.....	114	PT2X2IGGY.....	90
IM1KA15BK.....	119	IMCR1101OW.....	118	ISFXLRW.....	115	P1X.....	114	PT2X2SFBL.....	90
IM1KA15EI.....	119	IMCRF1OW.....	118	ISFXLRW.....	115	P2.....	114	PT2X2SFBR3.....	90
IM1KA15GY.....	43, 119	IMCRS15OW.....	118	KP1.....	65	P2AL.....	114	PT2X2SFBR3S.....	90
IM1KA15I.....	119	IMCRS1OW.....	118	KP14.....	65	P2B.....	114	PT2X2SFGY.....	90
IM1KA15OW.....	65, 119	IMDSB1OW.....	118	KP14AL.....	42	P2G.....	114	PT71SD.....	92
IM1KA15W.....	119	IMF1AL.....	43, 114, 119	KP14GY.....	42	P2OW.....	114	PT7FFSDGY.....	92
IM1SCA15AL.....	43, 119	IMF1BK.....	114, 119	KP1AL.....	42	P2R.....	114	PT7FFSDI.....	92
IM1SCA15BK.....	119	IMF1EI.....	114, 119	KP1GY.....	42	P2W.....	114	PT73SD.....	91, 92
IM1SCA15EI.....	119	IMF1GY.....	43, 114, 119	KP2.....	65	P2X.....	114	PT7FFSDGY.....	92
IM1SCA15GY.....	43, 119	IMF1OW.....	65, 114, 119	KP212.....	65	P8.....	114	PT7FFSDI.....	92
IM1SCA15I.....	119	IMF1W.....	114, 119	KP212AL.....	42	P82.....	114	PT7FSD.....	91
IM1SCA15OW.....	65, 119	IMF2AL.....	43, 114, 119	KP212GY.....	42	P82AL.....	114	PT7FSDBLA.....	91
IM1SCA15W.....	119	IMF2BK.....	114, 119	KP2140.....	65	P82B.....	114	PT7FSDBRA.....	91
IM2IA15AL.....	119	IMF2EI.....	114, 119	KP2140AL.....	42	P82G.....	114	PT7FSDBR3S2A.....	91
IM2IA15GY.....	119	IMF2GY.....	43, 114, 119	KP2140GY.....	42	P82OR.....	114	PT7FSDBR3S3A.....	91
IM2IA15OW.....	119	IMF2OW.....	114, 119	KP2162.....	65	P82OW.....	114	PT7FSDGYA.....	91
IM2K1AL.....	43, 119	IMF2W.....	114, 119	KP2162AL.....	42	P82R.....	114	PT7FSDIA.....	91
IM2K1BK.....	119	IMR1101OW.....	118	KP2162GY.....	42	P82W.....	114	PT7IGFSDBR3A.....	91
IM2K1EI.....	119	IMRSJ1OW.....	118	KP2163.....	65	P82X.....	114	PT7IGFSDGYA.....	91
IM2K1GY.....	43, 119	IMSP1OW.....	118	KP2163AL.....	42	P8AL.....	114	PT7IGFSDIA.....	91
IM2K1I.....	119	IMSR1101OW.....	118	KP2163GY.....	42	P8B.....	114	PT7XC.....	93, 94
IM2K1OW.....	65, 119	IMSV351101OW.....	118	KP24.....	65	P8G.....	114	Q106AL.....	42, 115
IM2K1W.....	119	ISF1535AL.....	115	KP26.....	65	P8OR.....	114	Q106B.....	115
IM2KA15AL.....	43, 119	ISF1535BK.....	115	KP26AL.....	42	P8OW.....	114	Q106E.....	115
IM2KA15BK.....	119	ISF1535EI.....	115	KP26GY.....	42	P8R.....	114	Q106G.....	42, 115



Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
Q106O	65, 115	S3813.....	75-77, 81	SFFGBK	116	SFRCWFFGY	116	SSF13	114
Q106W.....	115	S3825	75-77, 81	SFFGEI	116	SFRCWFFW.....	116	SSF14	114
S1	114	S3826	75-77, 81	SFFGGY	116	SFRCWGY.....	116	SSF16	114
S1CFCAL	71, 89	S3925	72, 73, 81	SFFGOW	116	SFRCWW	116	SSF204.....	114
S1CFCBL	71, 89	S5016.....	72	SFFGW	116	SFRCY	116	SSF206.....	114
S1CFCBRS	71, 89	S5017G.....	75	SFFGX	43, 116	SFRCYAL.....	116	SSF209.....	114
S1CFCGY	71, 89	S8	114	SFFWX	116	SFRCYBK.....	116	SSF212	114
S1CFCI	71, 89	S82.....	114	SFFX	65, 116	SFRCYEI.....	116	SSFL11	114
S1DIV1	71	SA2425.....	75-77, 81	SFRC	116	SFRCYFF	116	SSFL12	114
S1PFB	71	SA2525.....	72, 73, 81	SFRC110B.....	116	SFRCYFFAL.....	116	SSFL13	114
S1PT3IMAL	87	SA2625.....	75-77, 81	SFRC110GN.....	116	SFRCYFFBK	116	SSFL14	114
S1PT3IMBL	87	SA2725.....	72, 73, 81	SFRC110R.....	43, 65, 116	SFRCYFFEI	116	SSFL16	114
S1PT3IMBRS	87	SA2925.....	72, 73, 81	SFRC110W.....	116	SFRCYFFGY	116	USB10.....	119
S1PT3IMGY.....	87	SA3083.....	75-77	SFRC110Y	116	SFRCYFFW.....	116	XLR10.....	119
S1PT4X4AL.....	87	SA3083W	81	SFRCAL	116	SFRCYGY	116	XLRST10.....	119
S1PT4X4BL	87	SA3084.....	75-77	SFRCB	116	SFRCYW	116		
S1PT4X4BRS	87	SA3084W	81	SFRCBAL	116	SFRFGOW.....	116		
S1PT4X4FIT	89	SA3085.....	75-77	SFRCBBK	116	SFSPGBK.....	117		
S1PT4X4GY	87	SA3085W	81	SFRCBEI	116	SFSPGR	117		
S1PTAL	87	SA3182.....	73, 81	SFRCBFF	116	SFST	65, 117		
S1PTAVFIT.....	89	SA3625.....	75-77, 81	SFRCBFFAL.....	116	SFSTAL.....	43, 117		
S1PTBL.....	87	SA3725.....	72, 73, 81	SFRCBFFBK	116	SFSTBK.....	117		
S1PTBRS	87	SA3813.....	75-77, 81	SFRCBFFEI	116	SFSTEI	117		
S1PTFIT	89	SA3825.....	75-77, 81	SFRCBFFGY	116	SFSTG	43, 117		
S1PTGY	87	SA3826	75-77, 81	SFRCBFFW.....	116	SFSTW	117		
S1SP	71, 88	SA3925.....	72, 73, 81	SFRCBGY	116	SFSV110AL.....	116		
S1SP3IM.....	71, 88	SA5016.....	72	SFRCBK	116	SFSV110BK.....	43, 65, 116		
S1SP4IM.....	71, 88	SA5017G.....	75	SFRCBKBK.....	116	SFSV110EI	116		
S1SP4X4	71, 88	SB3083.....	75-77	SFRCBKFF	116	SFSV110GY	116		
S1SP4X4PA	71, 88	SB3083W	81	SFRCBKFFAL	116	SFSV110OW	116		
S1SP4X4SYS	71, 88	SB3084.....	75-77	SFRCBKFFBK	116	SFSV110W.....	116		
S1SPEXT1	71, 88	SB3084W	81	SFRCBKFFEI	116	SFSVAL	116		
S1SPEXT2.....	71, 88	SB3085.....	75-77	SFRCBKFFGY	116	SFSVBK.....	116		
S1SPEXT3.....	71, 88	SB3085W	81	SFRCBKFFW.....	116	SFSVEI.....	116		
S1SPFFAL	71, 88	SC10	119	SFRCBW	116	SFSVG	116		
S1SPFFBL	71, 88	SF2525.....	72, 73, 81	SFRCEI	116	SFSVOW	116		
S1SPFFBRS	71, 88	SF2725.....	72, 73, 81	SFRCGN.....	116	SFSVW	116		
S1SPFFGY.....	71, 88	SF2925.....	72, 73, 81	SFRCGNAL.....	116	SFUSBAAB.....	117		
S1SPMAX.....	71, 88	SF35SJ	117	SFRCGNBK	116	SFUSBABB.....	117		
S1SPORT	71, 88	SF35SJAL.....	117	SFRCGNEI	116	SL5E4A.....	115		
S1SPTL.....	71, 88	SF35SJBK.....	117	SFRCGNFF	116	SL5E4B.....	115		
S1SPTRAC.....	71, 88	SF35SJEI	117	SFRCGNFFAL.....	116	SPLITTER332	98		
S1TFCAL	71, 89	SF35SJGY	117	SFRCGNFFBK	116	SPLITTER422	98		
S1TFCBL	71, 89	SF35SJW	117	SFRCGNFFEI.....	116	SPPBK10.....	117		
S1TFCBRS	71, 89	SF3925.....	72, 73, 81	SFRCGNFFGY	116	SPPR10	117		
S1TFCGY	71, 89	SF39253A.....	72	SFRCGNFFW	116	SS2309BBKA	93		
S1TFCI	71, 89	SFB10	65, 116	SFRCGNGY	116	SS2309BGYA	93		
S2	114	SFBAL	43, 116	SFRCGNW	116	SS2309DBKA	93		
S2425.....	75-77, 81	SFBAL10.....	43, 116	SFRCGY	116	SS2309DGYA	93		
S2525.....	72, 73, 81	SFBB10.....	116	SFRCR	116	SS2309F1BKA.....	93		
S26	114	SFBBK	116	SFRCRAL.....	116	SS2309F1GYA	93		
S262.....	114	SFBE10.....	116	SFRCRBK	116	SS2309FBKA	93		
S2625.....	75-77, 81	SFBEI	116	SFRCREI	116	SS2309FGYA	93		
S2725.....	72, 73, 81	SFBG10.....	43, 116	SFRCRFF	116	SS2309SBKA	93		
S2825.....	75-77, 81	SFBGAL	116	SFRCRFFAL.....	116	SS2309SGYA	93		
S2925.....	72, 73, 81	SFBGBK.....	116	SFRCRFFBK	116	SS2309SLBKA	93		
S3079.....	73	SFBGEI.....	116	SFRCRFFEI.....	116	SS2309SLGYA.....	93		
S3082	72, 73, 81	SFBGGY	116	SFRCRFFGY	116	SS2309TBKA	93		
S3083	76-77	SFBGOW	116	SFRCRFFW.....	116	SS2309TGYA	93		
S3084	76-77	SFBGW	116	SFRCRGY	116	SS309B	94		
S3085	76-77	SFBGY	43, 116	SFRCRW	116	SS309BF	94		
S3182.....	73	SFBOW	65, 116	SFRCW	116	SS309D	94		
S3325	72, 73, 81	SFBW.....	116	SFRCWAL	116	SS309DS.....	94		
S3425.....	76, 77, 81	SFBW10.....	116	SFRCWEI.....	116	SS309S	94		
S3525.....	72, 73, 81	SFFALX.....	43, 116	SFRCWFF	116	SS309SF	94		
S3625	75	SFFBX	116	SFRCWFFAL.....	116	SS309T	94		
S3625	76, 77, 81	SFFEX	116	SFRCWFFBK	116	SSF11	114		
S3725.....	72, 73, 81	SFFGAL.....	116	SFRCWFFEI.....	116	SSF12	114		

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