

UNLV CAMPUS WIRING DESIGN GUIDELINE V1.4

APPENDIX C

Approved Telecommunications Manufacturers and Part Numbers

ITEM	DIV 27 SECTION	DESCRIPTION	BELDEN Part Number	COMMScope Part Number	HUBBELL Part Number	LEVITON Part Number	PANDUIT Part Number	SIEMON Part Number	OTHER/FIELD NOTES
A	27 05 26	Grounding and Bonding	-	-	<u>Grounding and Bonding Hubbell</u>	-	-	-	Manufacturer: Caddy/nVent (www.nvent.com) Note: Check with UNLV/P&C "E" Electrical Drawings.
A	27 05 26	Primary Bonding Busbar	-	-	<u>HBBB14412</u>	NA	-	-	-
A	27 05 26	Secondary Bonding Busbar	-	-	<u>HBBB14212</u>	NA	-	-	-
B	27 05 28 & 29	Pathways, Hangers, J-Hooks, and Supports for Communication Systems			N/A				Manufacturers: Cablofil/Legrand, Mag Daddy Note: Approved part numbers pending.
B	27 05 28 & 29	J-Hook, 3/4" Size 12			N/A	NA	JP75W-L20		CADDY: CAT16HPBC (More options available, please provide specs on connectivity attachment)
B	27 05 28 & 29	J-Hook, 1-5/16" Size 21			N/A	NA	JP131W-L20		CADDY: CAT21HPBC (More options available, please provide specs on connectivity attachment)

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B	27 05 28 & 29	J-Hook, 2-Inch Size 32			N/A	NA	JP2W-L20		CADDY: CAT32HPBC (More options available, please provide specs on connectivity attachment)
B	27 05 28 & 29	J-Hook, 3-Inch Size 48			N/A	NA	NO CROSS		CADDY: CAT48HPBC (More options available, please provide specs on connectivity attachment)
B	27 05 28 & 29	J-Hook, 3-Inch Size 48			N/A	NA	NO CROSS		CADDY: CAT48HPBC (More options available, please provide specs on connectivity attachment)
B	27 05 28 & 29	J-Hook, 4-Inch Size 64			N/A	NA	JP4W-X20		CADDY: CAT64HPBC (More options available, please provide specs on connectivity attachment)
C	27 05 33 & 36	Conduits, Back Boxes, and Cable Trays for Communications Systems			<u>Hubbell Wire /Cable management</u>				Manufacturers: Cablofil/Legrand, Basor, WBT/nVent, Snake Tray, Cooper B-Line/Eaton <i>Note: Approved part numbers pending.</i>
C	27 05 33 & 36	12" Ladder Rack, Black	BLRS250-12B	<u>760085647 CR- SLR-10L12W</u>	<u>HLS1006B</u>	NA	NO CROSS		HOFFMAN: LSS12BLK
C	27 05 33 & 36	18" Ladder Rack, Black	BLRS250-18B	<u>760085654 CR- SLR-10L18W</u>	<u>HLS1018B</u>	NA	NO CROSS		HOFFMAN: LSS18BLK
C	27 05 33 & 36	2", 2.5", 3" Elevation Kit	BLREK506-12B	760259908	<u>HLEK23</u>	NA	NO CROSS		HOFFMAN: LEK3B (3") (Does not offer smaller) (the -B at the end represents black)

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C	27 05 33 & 36	4", 5", 6" Elevation Kit	BLREK506-16B	760259909	<u>HLEK46</u>	NA	NO CROSS		HOFFMAN: LEK6B (6") (Does not offer in 4" or 5")
C	27 05 33 & 36	12" Triangle Bracket	BLTSB312-12B	<u>760084095 CRTWSBK-12W</u>	<u>HLTSB12B</u>	NA	NO CROSS		HOFFMAN: LTSB12BLK (compatible w/ 6 & 12 runway)
C	27 05 33 & 36	18" Triangle Bracket	BLTSB312-18B	<u>760084103 CRTWSBK-18W</u>	<u>HLTSB18B</u>	NA	NO CROSS		HOFFMAN: LTSB18BLK (Compatible w/ 12 & 18) LTSB151824BLK (Compatible with 12, 15, 18)
C	27 05 33 & 36	12" Bonding Strap	BLRGW250-11G	<u>760109124 CRGND</u>	<u>HGBBD12</u>	NA	NO CROSS		
C	27 05 33 & 36	Butt Splice	BLBSU301-15B	<u>760083899 CRBSK</u>	<u>HLBSK</u>	NA	NO CROSS		HOFFMAN: LBSKB (Black Finish) LABSKB (Black adjustable butt splice)
C	27 05 33 & 36	End Caps, Black	BLPEC642-002	<u>760084012 CRPECK</u>	<u>HLECPK2</u>	NA	NO CROSS		HOFFMAN: LEC (Black finish)
D	27 05 38	Fiber Trough Systems			NA				Manufacturer: Corning FiberGuide® Series:
D	27 05 38	Fiber Raceway Duct 2x2, W/ Lid	FRD1SYL	<u>FGS-MSHA-C</u>	NA	<u>S2DCT-SDC</u>	HS2X2YL10NM, HC2YL10		
D	27 05 38	Fiber Raceway Breakout Kit, 2x2, Kit	FRTB2	<u>FGS-MHTA-C</u>	NA	<u>S2HTE-TEC</u>	FBC2X2LYL		
D	27 05 38	Fiber Raceway Duct 4x4, w/ Lid	FRD3SYL	<u>FGS-MSHS-A</u>	NA	<u>S4DCT-SDC</u>	FR4X4YL10, FRHC4YL10		
D	27 05 38	Fiber Raceway Cross Connector 4x4	FRCC3YL	<u>FGS-MHXP-A</u>	NA	<u>S4HCR-HCC</u>	FRFWC4X4LYL, FRFWCSC4LYL		
E	27 05 39 & 40	Surface Mounted Raceway, Modular Furniture Pathways, and Poke-through Devices			<u>Hubbell Wire /Cable management</u>				Manufacturer: USFFAB (Approved)
E	27 05 39 & 40	Flush Mounted Furniture Faceplate, 2-Port	AX103925 (3 port)	<u>106650898 M13C- 262</u>	<u>FP2BK</u>	<u>49910-SW2</u> <u>49910-HW2</u> (Herman Miller)	CFFPL2BL	MX-MFP- (XX) & MX-BL-(XX) 4-port only N/a in keystone	

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E	27 05 39 & 40	Surface Mounted Furniture Faceplate, 4-Port	AX103926	<u>760118232 </u> <u>M14CE-E -262</u>	<u>FP4BK</u>	<u>49910-SW4</u> <u>49910-EW4</u> (Extra Depth) <u>49910-HW4</u> (Herman Miller) <u>49910-UE4</u> (Universal Angled MFP)	CFFPL4BL	MX-UMA- (XX) & MX-BL-(XX) 4-port only N/a in keystone	
F	27 05 43	Underground Ducts and Raceways for Communication Systems			N/A				Models: THS & THD Vault (Double Cover), TPS & TPD Vault (Single Cover). <i>Note: Part numbers determined by size and load factors. Check with UNLV/P&C "A" Electrical and UNLV/FMS.</i>
G	27 05 41 & 44	Firestopping Systems, Sleeves, and Sleeve Seals			N/A				Manufacturer: Brady (www.bradyID.com) <i>Note: Check with UNLV/P&C "A" Electrical and UNLV/FMS.</i>
H	27 05 53	Identification for Communication Systems			N/A		MP300 Handheld Printer Labels TBD		Requirement: ANY UL-approved machine-generated labeler (3/8" to 3/4" size). Manufacturers: Brother, Dymo (<i>Part Numbers Pending</i>)
I	27 10 20 (.10/.20/.30)	Copper System and Optical Fiber Cable Testing and Documentation			N/A				Manufacturer: Fluke 5000 and 800 Series with Optical Fiber Modules. Manufacturers: AEM, AFL, EXFO, FIS, Fiber Fox, Sumitomo, Jonard, Anritsu, Viavi, OWL (<i>Part Numbers Pending</i>)

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J	27 11 10	Telecommunication Rooms and Backboards			N/A				<i>Note: Check with UNLV/P&C for approved manufacturer list. Also see item C (27 05 36).</i>
K	27 11 16	Communications Cabinets, Equipment Racks, Brackets, and Cable Management			<u>Hubbell Cabinets, Racks, Cable Management</u>				Manufacturer: Great Lakes Cable Runways: Manufacturers: CPI, Hoffman/nVent, Oberon (Part Numbers Pending)
K	27 11 16	Rack, 2-post, 12-24 threaded	BHRR194	<u>760082479 RK3-45A</u>	<u>HPW96RR19</u>	NA	R2P	RS1-07-S	
K	27 11 16	Rack, 4-port, Black, cage nut	XDR8419-3122836	<u>760082560 RK4P45-36A</u>	<u>SF841936</u> Available in 24", 29", 36", 42"48" Depth	NA	R4PCN	RSQ1-07C-S	
K	27 11 16	Wall Mount hinged bracket, 2RU	XWB-2U		<u>WBS28</u>	<u>49251-W62</u>	WBH2	SBH-2	
K	27 11 16	Horizontal cable manager, 4-inch finger, 1U, single-sided	BHH191RU	<u>760072942 HTK-19-SS-1U</u>	<u>HM12C</u>	<u>491RU-HFO</u>	NMF1	HCM-4-1U	
K	27 11 16	Horizontal cable manager, 4-inch finger, 2U, single-sided	BHH192RU	<u>760072959 HTK-19-SS-2U</u>	<u>HM22C</u>	<u>492RU-HFO</u>	NMF2	HCM-4-2U	
K	27 11 16	Vertical cable manager, 8 inch wide, single sided	BHVH008	<u>760236906 VCM2-SS-84-8BK</u>	<u>VM810</u>	<u>8980L-VFO</u>	PR2VFD08	VCM1A-10S-1-45 **8-inch n/a	
K	27 11 16	Vertical cable manager, 8 inch wide, double-sided	BHVHH08	<u>760236902 VCM2-DS-84-8BK</u>	<u>VM820</u>	<u>8980L-VFR</u>	PR2VD08	VCM1A-10D-1-45 **8-inch n/a	
L	27 11 19	Communications Copper Modular Patch Panels							
L	27 11 19	48-Port Keystone Patch Panel	RVAPPF2U48BK	<u>760237052 CPP-UDDM-KJ-1U-24</u>	<u>NSPJ48</u>	<u>49255-H48</u> (Empty) <u>6910G-U48</u> (Panel w/Cat 6A Jacks)	CPP48WBLY	KPNL-F2-48-01S or 10GMXP-F2-48E	
L	27 11 19	24-Port Keystone Patch Panel	RVAPPF1U24BK	<u>760241547 CPP-UDDM-KJ-2U-48</u>	<u>NSPJ24</u>	<u>49255-H24</u> (Empty)	CPP24WBLY	KPNL-F1-24L-01S or	

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						<u>6910G-U24</u> (Panel w/Cat 6A Jacks)		10GMXP-F1-24E	
L	27 11 19	Universal 1RU 48-Port Copper & Fiber Modular Cassette Patch Panel, Flat				<u>E2X1F-S48</u>			
L	27 11 19	Universal 1RU 48-Port Copper & Fiber Modular Cassette Patch Panel, Flat, Rear Manager				<u>E2X1F-CMB</u>			
L	27 11 19	1RU 6-Port Empty Cassette for Universal Copper & Fiber Panel				<u>E2XHD-BRK</u>			
M	27 11 20	Communications Optical Fiber Enclosures							Manufacturer: Corning
M	27 11 20	1RU Fiber Optic Patch Panel	ECX-01U	<u>760249998 EPX-1U-MOD-ENC</u>	<u>FCR1U3SPX</u>	<u>5R1UM-S03</u> (Solid Steel Hinged Doors) <u>5R1UH-S03</u> (Transparent Hinged Doors)	FRE1UBL	LVE-1U-MD-P01A	
M	27 11 20	2RU Fiber Optic Patch Panel	ECX-02U	<u>760251044 EPX-2U-MOD-ENC</u>	<u>FCR2U6SPX</u>	<u>5R2UM-S06</u> (Solid Steel Hinged Doors) <u>5R2UH-S06</u> (Transparent Hinged Doors)	FRE2UBL	LVE-2U-MD-P01A	
M	27 11 20	4RU Fiber Optic Patch Panel	ECX-04U	<u>760254513 EPX-3U-SPL-ENC</u>	<u>FCR4U15SPX</u>	<u>5R4UM-F12</u> (Solid Steel Hinged Doors) <u>5R4UH-S12</u> (Transparent Hinged Doors)	FRE4UBL	LVE-4U-MD-P01A	
M	27 11 20	High Density 1RU Enclosure, 96F				<u>5R1UD-S08</u>			
M	27 11 20	High Density 2RU Enclosure, 192F				<u>5R2UD-S16</u>			
M	27 11 20	High Density 3RU Enclosure, 288F				<u>5R3UD-S24</u>			
M	27 11 20	High Density 4RU Enclosure, 384F				<u>5R4UD-S32</u>			
M	27 11 20	Ultra-High Density 1RU/2RU/4RU 144F/288F/76F				<u>5R1UD-S12</u> <u>5R2UD-S24</u> <u>5R4UD-S48</u>			

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N	27 13 23 .01	Intra-building Optical Fiber Backbone Cabling	FISD012P9 FISD024P9 FISD036PK FISD048PK FISD072PK FISD096PK FISD144PK	760004358 P-012- <u>DS-8W-FSUYL</u> 760018630 P-024- <u>DS-8W-FSUYL</u>	Hubbell I/O fiber optic cable series	Indoor/Outdoor Plenum Tight Buffer PDP-I/O <u>OS2 SM Series</u> 24F <u>PDP024AB0707-I/O-</u> <u>C4(YEL)</u> 36F <u>PDP12B036AB0707-</u> <u>I/O-C4(YEL)</u> 48F <u>PDP12B048AB0707-</u> <u>I/O-C4(YEL)</u> 72F <u>PDP12B072AB0707-</u> <u>I/O-C4(YEL)</u> 96F <u>PDP12B096AB0707-</u> <u>I/O-C4(YEL)</u> 144F <u>PDP12B144AB0707-</u> <u>I/O-C4(YEL)</u>			Manufacturer: Corning TeraSPEED® Series: Manufacturer: AFL (ABF) (Part Numbers Pending)
N	27 13 23 .01	Ultra Low Loss Pre-Term Fiber Optic MTP/MPO Trunk Cables				<u>UNITY-TRK</u>			
N	27 13 23 .01	Low Loss Pre-Term Fiber Optic MTP/MPO Trunk Cables				<u>ENTER-TRK</u>			

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O	27 13 23 .02	Inter-building Optical Fiber Backbone Cabling	FDSL012PDY FDSL024PDY FDSL036PDY FDSL048PDY FDSL072PDY FDSL096PDY FDSL144PDY	<u>760112755 D-048- LN-8W-F12NS/LTS</u> <u>760138354 D-096- LN-8W-F06YL</u>	<u>Hubbell Fiber</u>	<u>Indoor/Outdoor Plenum</u> <u>Tight Buffer PDP-I/O</u> <u>OS2 SM Series</u> <u>24F</u> <u>PDP024AB0707-I/O-</u> <u>C4(YEL)</u> <u>36F</u> <u>PDP12B036AB0707-</u> <u>I/O-C4(YEL)</u> <u>48F</u> <u>PDP12B048AB0707-</u> <u>I/O-C4(YEL)</u> <u>72F</u> <u>PDP12B072AB0707-</u> <u>I/O-C4(YEL)</u> <u>96F</u> <u>PDP12B096AB0707-</u> <u>I/O-C4(YEL)</u> <u>144F</u> <u>PDP12B144AB0707-</u> <u>I/O-C4(YEL)</u>			Manufacturers: Dura- Line, Maxcell, Corning (<i>Part Numbers Pending</i>)
P	27 15 01 .13	Communications Copper Horizontal Cabling Station Applications and PoE		<u>UN874035114/10 </u> <u>CS44P BLU C6A</u> <u>4/23 U/UTP CPK</u> <u>1KFT</u>	<u>Hubbell-</u> <u>Premise-Wiring-</u> <u>Catalog</u>				Other Approved Part:
P	27 15 01 .13	Cat 6A UTP Plenum Cable, Highest Performance, Blue				<u>SST: 11101842 (Reel)</u> <u>SST: 11142452</u> <u>(TEKPAK)</u>			
P	27 15 01 .13	Cat 6A UTP Outdoor Cable, Highest Performance, Black				<u>SST Outdoor:</u> <u>11144215</u>			
P	27 15 01 .13	Cat-6A Cable, OSP (Gel-Filled), Black,				<u>LANMARK-10G OSP</u> <u>11094458</u>			
P	27 15 01 .13	Cat 6A UTP Plenum Cable, Reduced Diameter, Blue				<u>RDT: 11141650 (Reel)</u> <u>RDT: 11142454</u> <u>(TEKPAK)</u>			
P	27 15 01 .13	Cat 6A UTP Indoor/Outdoor Plenum Cable, Reduced Diameter, Black				<u>RDT-I/O: 11142753</u>			
Q	27 15 01 .19	Data Communications Copper Horizontal Cabling			<u>Hubbell-</u> <u>Premise-Wiring-</u> <u>Catalog</u>				Other Approved Parts (CommScope Ecosystem):

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Q	27 15 01 .19	Cat-6A UTP Cable, Blue, Indoor Plenum	10GXW13- D151000	<u>UN874035114/10 </u> <u>CS44P BLU C6A</u> <u>4/23 U/UTP CPK</u> <u>1KFT</u>	<u>C6ASPDSB</u>	<u>SST: 11101842 (Reel)</u> <u>SST: 11142452</u> <u>(TEKPAK)</u>	PUP6XHD04BU-G	9U6P4-A5- 06AR1A	
Q	27 15 01 .19	Cat-6A Cable, Black, Outdoor Rated	IOP6AU	<u>760178129 1592A</u> <u>BLK C6A 4/23</u> <u>F/UTP R1000</u>	<u>C6AIOSPBK</u>	<u>SST Outdoor:</u> <u>11144215</u>	PUO6X04BL-CGZ	9C6O4-A5- 01-R1A	
Q	27 15 01 .19	Cat-6A Cable, OSP (Gel-Filled), Black,				<u>LANMARK-10G OSP</u> <u>11094458</u>			
Q	27 15 01 .19	Cat 6A UTP Plenum Cable, Reduced Diameter, Blue				<u>RDT: 11141650 (Reel)</u> <u>RDT: 11142454</u> <u>(TEKPAK)</u>			
Q	27 15 01 .19	Cat 6A UTP Indoor/Outdoor Plenum Cable, Reduced Diameter, Black				<u>RDT-I/O: 11142753</u>			
R	27 15 01 .20	Wireless Data Communication Copper Horizontal Cabling			<u>Hubbell-</u> <u>Premise-Wiring-</u> <u>Catalog</u>				Other Approved Parts:
R	27 15 01 .20	Cat-6A UTP Cable, Blue, Indoor Plenum	10GXW13- D151000	<u>UN874035114/10 </u> <u>CS44P BLU C6A</u> <u>4/23 U/UTP CPK</u> <u>1KFT</u>	<u>C6ASPDSB</u>	<u>SST: 11101842 (Reel)</u> <u>SST: 11142452</u> <u>(TEKPAK)</u> <u>RDT: 11141650 (Reel)</u> <u>RDT: 11142454</u> <u>(TEKPAK)</u>	PUP6XHD04BU-G	9U6P4-A5- 06AR1A	
S	27 15 43 .10	Communication Copper Jack Information Outlets & Connectors			<u>Hubbell copper</u> <u>connectivity</u>				
S	27 15 43 .10	Cat-6A Data Jack	RVAMJKUBL-S1	<u>760241161 </u> <u>UKJ10G-BK</u>	<u>HJU6AB</u>	<u>6110G-R*6</u>	CJ6X88TGBU	U6A- K(XX)N(X) U6A- H(XXN(X)	
S	27 15 43 .10	Cat 6A Coupler				<u>SBCPI-00S</u>			
S	27 15 43 .10	Cat 6A Coupler Assembly w/Plenum Patch Cord				<u>SBCPI-XXL</u> <u>SBCPO-XXL</u>			
S	27 15 43 .10	Cat 6A Coupler Assembly w/Indoor/Outdoor Plenum Patch Cord				SBCOP-15E			
T	27 15 43 .15	Communication Fiber Connectors and Cassettes			<u>Hubbell Fiber</u> <u>connectivity</u>				Manufacturer: Corning

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T	27 15 43 .15	Pigtail, SM/LC Simplex, 1M	FTSLC900PR12	<u>FAWLCUC01</u> <u>FAWLCUC01-</u> <u>JXM001</u>	<u>FDLC1SM</u> Duplex	<u>PSF-S2N9R01XX-</u> <u>01M, XX DENOTES</u> <u>COLOR</u>	F91BN1NNNSNM 001	FP1B- LCUL-01	
T	27 15 43 .15	Pigtail, MM/LC Simplex, 1M	FT4LC900PR12	<u>FAXLCUC01</u> <u>FAXLCUC01-</u> <u>MXM001</u>	<u>FDLC1MM</u> Duplex	<u>PSF-M4N9R01XX-</u> <u>01M, XX DENOTES</u> <u>COLOR</u>	FZ1BN1NNNSNM 001	FP1B-LC5L- 01 **om3 FP1B- LC5V-01 *om4	
T	27 15 43 .15	Connector, Fusion Splice, SM/LC	FTSLC900FS01	<u>760258745</u>	<u>FCLCF900SMB</u> <u>P</u>	<u>499LC-BL9</u>	FSOCSC9	FC-F-LCU- 29BL	
T	27 15 43 .15	Connector, Fusion Splice, MM/LC	FT4LC900FS01	<u>760258742</u>	<u>FCLCF900M50</u> <u>GBP</u>	<u>499LC-AQ9</u>	FSOCSCX	FC-F-LC5- 29AQ	
T	27 15 43 .15	Pigtail Fusion Fiber Splice Module with Duplex 12F Shuttered LC, SM/OS2				<u>SPLCS-2LL</u>			
T	27 15 43 .15	Pigtail Fusion Fiber Splice Module with Duplex 24F Shuttered LC, SM/OS2				<u>SPLCS-4LL</u>			
T	27 15 43 .15	High Density Pigtail Fusion Fiber Splice Module with Duplex 12F Shuttered LC, SM/OS2				<u>SPLCH-12BL</u>			
T	27 15 43 .15	High Density Splice Module Bracket for Standard Density Fiber Enclosure				<u>HDXAD-ACC</u>			
T	27 15 43 .15	Pre-Term MTP Cassettes							
T	27 15 43 .15	Standard Density Low Loss Pre-Term MTP Male Cassettes to Shuttered LC Duplex, OS2				<u>FM-A012</u> <u>FM-A024</u>			
T	27 15 43 .15	High Density Ultra Low Loss Cassettes 12/24 MTP				<u>UNHDX-CAS</u>			
T	27 15 43 .15	High Density Ultra Low Loss Breakout Cassettes, 8/24 MTP				<u>UNHDX-CCS</u>			
T	27 15 43 .15	High Density Low Loss 12 MTP Cassettes				<u>ENHDX-CAS</u>			

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T	27 15 43 .15	Universal Copper & Fiber Panel: Fiber Low Loss Cassettes				<u>ENE2X-CAS</u>			
T	27 15 43 .15	Universal Copper & Fiber Panel: Fiber Ultra Low Loss Breakout Cassettes				<u>UNE2X-CCS</u>			
T	27 15 43 .15	Universal Copper & Fiber Panel: Fiber Ultra Low Loss Cassettes				<u>UNE2X-CAS</u>			
U	27 15 43 .25	Work Area Faceplates/Wall Plates & Surface Mount Boxes			<u>Hubbell Faceplates & surface mount boxes</u>				Other Approved Components:
U	27 15 43 .25	Wallplate, 2-Port Keystone w/ID Windows	AX102655	<u>760072181 M12SP-L</u>	<u>IFP12OW</u>	<u>42080-2WS</u>	CFPL2WHY	KFP-S-02- 02-S 10GMX- FPS02-02	
U	27 15 43 .25	Wallplate, 4-Port Keystone w/ID Windows	AX102249	<u>760072207 M14SP-L</u>	<u>IFP14OW</u>	<u>42080-4WS</u>	CFPL4WHY	KFP-S-04- 02-S 10GMX- FPS04-02	
U	27 15 43 .25	Surface Mount Box, 2-Port	AX105353-EW	<u>760248527 SMB- 2P-266</u>	<u>HSB2OW</u>	<u>41089-2WP</u>	CBX2WH-AY	KSM2-02- NN MX- SMZ2-02	
U	27 15 43 .25	Surface Mount Box, 4-port	AX105354-EW	<u>760253653 SMB- 4P-KJ-266</u>	<u>HSB4OW</u>	<u>41089-4WP</u>	CBX4WH-AY	KSM4-02- NN MX- SMZ4-02	
U	27 15 43 .25	Blank Inserts		<u>760257711</u>	<u>Keystone blank 10-pack</u>	<u>41084-0BW</u>	CMBWH-X	KBL-02 MX-BL-02	
U	27 15 43 .25	In-Ceiling Bracket with Drop Ceiling Clip				<u>49223-CBC</u>			
V	27 16 19	Communications Patch Cords, Station Cords, and Cross Connects							
V	27 16 19	Cat 6A Small Diameter 28AWG UTP/FTP Patch Cords				<u>H6A10-XX*</u> (XX = 01-20' * = Color)			
V	27 16 19	Cat 6A Universal UTP/FTP Patch Cords				<u>6AS10-XX*</u> (XX = 03-20' * = Color)			
V	27 16 19	Cat 6A Plenum UTP/FTP Patch Cords				<u>6ASP0-XX*</u> (XX = 03-20' * = Color)			

ITEM	DIV 27 SECTION	DESCRIPTION	BELDEN Part Number	COMMSCOPE Part Number	HUBBELL Part Number	LEVITON Part Number	PANDUIT Part Number	SIEMON Part Number	OTHER/FIELD NOTES
V	27 16 19	OS2 SM LC Duplex Patch Cords, Economy				<u>UPDLC-SXX</u> (XX = 01 – 10) Length in meters			
V	27 16 19	OS2 SM LC Duplex Patch Cords, Reversible Polarity				<u>PCF-S2PR2VV-</u> <u>0000MAB</u> (0000=Length in meters)			
V	27 16 19	MPO/MTP OS2 Ultra Low Loss Plenum Array Cords, Female to Female, Method B				8-Fiber <u>ULUP8MM-B003M</u> 12-Fiber <u>ULUP2LL-B003M</u> 24-Fiber <u>ULUP4JJ-B003M</u>			
V	27 16 19	MPO/MTP OS2 Low Loss Plenum Array Cords, Female to Female, Method B				8-Fiber <u>UP8MM-B003M</u> 12-Fiber <u>UP2LL-B003M</u>			
V	27 16 19	Ultra Low Loss 24F MTP Array Harness MTP to MTP, Female to Female, OS2				24-F to 8-Fiber <u>FHU-AH024JM1224S5</u> 24F to 12-Fiber <u>FHU-AH024JL1224BC</u>			
V	27 16 19	Low Loss 12-F MTP female to LC Duplex Harness, OS2				<u>LC Economy FH-</u> <u>AH012LR0824x</u> <u>LC Unibody</u> <u>FH-AH012LV0824x</u>			
W	27 40 00	Integrated Audio- Video Systems and Equipment			<u>Hubbell A/V</u>				Manufacturer: Crestron (Cabling details in Belden column) + USB Covid Series / Cables to Go. Manufacturer: Windy City / Other Unspecified:
W	27 40 00	HDMI-HDMI Cable			<u>HCH06BK</u>		NO CROSS	N/A	
W	27 40 00	HDMI-DVI Cable					NO CROSS	N/A	
W	27 40 00	HDMI-USB C Cable					NO CROSS	N/A	
X	Extra	Extra Manufacturer/Other							
X	Extra	Extended Distance Cat 6 and Cat 6A Jacks					ATLAS-X1 Cat 6A Jack <u>6AUJK-R*6</u> ATLAS-X1 Cat 6 Jack <u>61UJK-R*6</u>		

ITEM	DIV 27 SECTION	DESCRIPTION	BELDEN Part Number	COMMSCOPE Part Number	HUBBELL Part Number	LEVITON Part Number	PANDUIT Part Number	SIEMON Part Number	OTHER/FIELD NOTES
X	Extra	Extended Distance Cat 6A Cables							
X	Extra	Cat 6A UTP Plenum Cable, Highest Performance, Blue					SST: <u>11101842</u> (Reel) SST: <u>11142452</u> (TEKPAK)		
X	Extra	Cat 6A UTP Outdoor Cable, Highest Performance, Black					SST Outdoor: <u>11144215</u>		
X	Extra	Cat 6 UTP OSP, Black					<u>Stadion</u> <u>11144870</u>		
X	Extra	Hybrid Cable PoE Network Extender System					<u>OneReach</u>		