

AV CABLE TYPE SCHEDULE					
SIGNAL GROUP	FUNCTION	CODE	MANUFACTURER	WIRE PART NUMBER	OUTER DIAMETER
I	MICROPHONE	MIC	WINDY CITY WIRE	22-1PREZ-BLK	0.134
II	LINE LEVEL/AES-EBU DIGITAL	LINE	BELDEN	1696A	0.234
II	ANALOG 2-WIRE COMM SYSTEM	ACOM	WINDY CITY WIRE	18-1PS-COMM	0.202
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 10 AWG	SP10	WINDY CITY WIRE	NJ10-02	0.326
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 12 AWG	SP12	WINDY CITY WIRE	8120265-110	0.25
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 14 AWG	SP14	WINDY CITY WIRE	81402105-110	0.226
III	TWISTED PAIR JACKETED LOUDSPEAKER 8 AWG	SPJ08	WEST PENN	C208	0.498
III	TWISTED PAIR JACKETED LOUDSPEAKER 14 AWG	SPJ14	WINDY CITY WIRE	14-02-BLK	0.21
III	TWISTED PAIR JACKETED LOUDSPEAKER 16 AWG	SPJ16	WINDY CITY WIRE	16-02-BLK	0.184
III	TWISTED PAIR JACKETED LOUDSPEAKER 16 AWG - REMOTE POWER	REMPWR	WINDY CITY WIRE	16-02-BLK	0.184
III	4 COND JACKETED 70V VOLUME CONTROL 16 AWG	VCTRL	WINDY CITY WIRE	16-04-GRY	0.215
III	4 COND JACKETED 1P-18AWG, 1P-22AWG+SHIELD	SP48	WINDY CITY WIRE	CRESCOM	0.228
IV	ANALOG AND SDI COAX	VIDSDI	BELDEN	1794A	0.32
IV	RF MIC AND ALS ANTENNA - SHORT RUN	ANTS	BELDEN	7810A	0.242
IV	RF MIC AND ALS ANTENNA - LONG RUN	ANTL	BELDEN	9914	0.403
IV	CONTROL SYSTEM RS-232/ RS-485/ RELAY/ IR	CTRL	WINDY CITY WIRE	18-1PS-COMM	0.202
IV	MIDI	MIDI	BELDEN	9941	0.23
IV	MEYER RMS	RMS	BELDEN	8205	0.18
V	SHIELDED CAT6A	STP	WINDY CITY WIRE	CAT6AS-BLK	0.288
V	UNSHIELDED CAT6A	UTP	BELDEN	2412	0.22
V	SINGLEMODE FIBER - 6CT. OS2	6OS2	WINDY CITY WIRE	OCC-DZ006D-SLX 9YR	0.21
V	MULTIMODE FIBER - 6CT. OM4	6OM4	WINDY CITY WIRE	OCC-DZ006DALE-9QR	0.21
V	SMPTE HYBRID	SMPTE	GEPCO	HDC920R	0.362
VI	EMPTY CONDUIT - 1"	COND1			1
VI	EMPTY CONDUIT - 2"	COND2			2
VI	BEVWAY DUCT	BEVWAY	KELLY BEVWAY	8 INCH	
VI	FIRE STOP CABLE PASS - SINGLE	CBP1	ABESCO	1 EA. 31942 + 1 EA. 31982	
VI	FIRE STOP CABLE PASS - TRIPLE	CBP3	ABESCO	3 EA. 31942 + 1 EA. 31986	

- NOTES:
- CABLE SUBSTITUTIONS MAY BE ALLOWED IF APPROVED BY THE AV CONSULTANT. REFER TO 27 41 00 FOR SUBSTITUTION REQUEST REQUIREMENTS.
 - CABLE OUTER DIAMETER INFORMATION IS PROVIDED FOR GUIDANCE ONLY. MANUFACTURERS DO MAKE CHANGES TO THE CABLES FROM TIME TO TIME THAT AFFECT THE OUTER DIAMETER. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE CABLE DIAMETERS FOR THE PURPOSES OF APPROPRIATE CONDUIT SIZING.
 - WHEN SIZING CONDUITS, REFER TO 27 41 00 FOR SPARE CABLING REQUIREMENTS TO INCLUDE CABLE SPARES IN CONDUIT SIZING CALCULATIONS.

KEY TO STANDARD CONNECTORS								
INTERIOR								
CONNECTOR	TYPE	FLOW	MANUFACTURER	INTERIOR MODEL	EXTERIOR MODEL	DESCRIPTION	REQUIRED INTERIOR ACCESSORIES	REQUIRED EXTERIOR ACCESSORIES
	XLR	SEND	NEUTRIK	NC3MD-LX-BAG	NC3MDXX-TOP	3 PIN XLR PANEL MOUNT BLACK PIN		
	XLR	RECEIVE	NEUTRIK	NC3FD-LX-BAG	NC3FDXX-TOP	3 PIN XLR PANEL MOUNT BLACK SOCKET		
	CATEGORY	BI-DIRECTIONAL	NEUTRIK	NE8FDX-Y6-B	NE8FDX-Y6-W	ETHERCON 8P8C SHIELDED CAT6a PANEL MOUNT BLACK	NEUTRIK SCDP-FX*	NEUTRIK SCDP-FX*
	FIBER	BI-DIRECTIONAL	NEUTRIK	NO2-4FDW-1-A	FIBERFOX EBC15 2CH biDge	2 CORE OPTICALCON FIBER PANEL MOUNT BLACK		NEUTRIK SCCD-W
	ANT BNC	SEND OR RECEIVE	NEUTRIK	NBB75DFIB		1 PIN COAXIAL PANEL MOUNT BLACK SOCKET		
	SDI BNC	SEND OR RECEIVE	NEUTRIK	NBB75DFIX	NBB75DFIX	1 PIN COAXIAL PANEL MOUNT BLACK SOCKET		NEUTRIK SCDP-FX*
	HDMI	SEND OR RECEIVE	NEUTRIK	NAHDMI-W-B		HDMI PANEL MOUNT BLACK SOCKET		NEUTRIK SCF
	SPEAKER4	SEND OR RECEIVE	NEUTRIK	NLT4MPXX-BAG	NLT4MPXX-BAG	4 POSITION PANEL MOUNT BLACK PIN METAL CHASSIS		NEUTRIK SCL AND SCNLT
	SPEAKER8	SEND OR RECEIVE	NEUTRIK	NL8MPRXX-BAG	NL8MPRXX-BAG	8 POSITION PANEL MOUNT BLACK PIN METAL CHASSIS		NEUTRIK NDL8 AND SCNLT
	LINK	SEND OR RECEIVE DEPENDING ON CONFIGURATION	LINK	SIZE 32 AS CONFIGURED	SIZE 32 AS CONFIGURED	MULTIPIN LOCKING CONNECTOR AS CONFIGURED		

CHECK ALL NOTES FOR ADDITIONAL INFORMATION ABOUT SPECIFIC CONNECTORS

- * = PROVIDE THE FOLLOWING OCLORS BASED ON LAN TYPE
- 0 BLACK FOR GENERIC PATCHABLE CONNECTIONS
 - 5 GREEN FOR PRIMARY AUDIO CONNECTIONS
 - 2 RED FOR SECONDARY AUDIO CONNECTIONS
 - 9 WHITE FOR VIDEO CONNECTIONS
 - 4 YELLOW FOR NETWORK INTERCOMM CONNECTIONS

INTERIOR AND EXTERIOR CONNECTORS

9/8/2026 2:00:30 PM ①

6" = 1'-0"

CONDUIT SEPARATIONS BY AV SIGNAL TYPE						
	SIGNAL GROUP I	SIGNAL GROUP II	SIGNAL GROUP III	SIGNAL GROUP IV	SIGNAL GROUP V	SIGNAL GROUP VI
SIGNAL GROUP 1 - MIC	NONE	6"	12"	12"	12"	12"
SIGNAL GROUP II - LINE LEVEL AND ANALOG COMM	6"	NONE	12"	6"	6"	12"
SIGNAL GROUP III - LOUDSPEAKER	12"	12"	NONE	6"	6"	12"
SIGNAL GROUP IV - COAXIAL VIDEO, ANTENNA, AND CONTROL	12"	6"	6"	NONE	NONE	12"
SIGNAL GROUP V - CATEGORY AND FIBER OPTIC	12"	6"	6"	NONE	NONE	12"
SIGNAL GROUP VI - EMPTY CONDUIT AND CABLE PASS	12"	12"	12"	12"	12"	12"
DIMMER AND SCR CONTROLLED SERVICES	24"	12"	6"	12"	12"	24"
220 AND 440 VAC SERVICES	6"	6"	NONE	NONE	NONE	6"
ALL OTHER ELECTRICAL SERVICES	6"	6"	NONE	NONE	NONE	6"

- NOTES:
- CONDUIT SEPARATIONS ABOVE ARE BASED ON THE USE OF EMT CONDUIT FOR ALL AV SIGNALS AND POWER SERVICES. IF PVC CONDUIT IS USED (ONLY ALLOWABLE UNDERGROUND FOR AV SIGNAL GROUPS), SEPARATIONS MUST BE DOUBLED. IF RIGID CONDUIT IS USED, SEPARATIONS MAY BE HALVED.
 - CONDUITS MAY CROSS AT NINETY DEGREE ANGLES TO EACH OTHER IN CLOSE PROXIMITY.
 - ALL AV SIGNAL CONDUITS MUST MAINTAIN PROPER SEPARATIONS UNTIL WITHIN 6' OF A TERMINATION BOX, JUNCTION BOX, EQUIPMENT RACK OR GUTTER ENTRY.
 - HEAVY CURRENT DEMANDS IN ABOVE POWER SERVICES MAY REQUIRE GREATER SEPARATIONS THAN INDICATED TO AVOID INTERFERENCE IN AV SYSTEMS.
 - PARALLEL RUNS OF POWER SERVICES GREATER THAN 100' MAY REQUIRE GREATER SEPARATIONS THAN INDICATED TO AVOID INTERFERENCE IN AV SYSTEMS.
 - THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE AV CONSULTANT FOR EACH AND EVERY DEVIATION FROM THESE REQUIREMENTS.

ANY DIVISION 26 SCOPE OF WORK SHOWN IS FOR REFERENCE ONLY

REFER TO NOTE 3 AND THE WORK SCOPE SPECIFICATION TABLE ON AV001

Project



PHILANDER SMITH UNIVERSITY

M.L. HARRIS AUDITORIUM RENOVATION

Volume

VOLUME 2

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

Notes

- CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
- THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number

2024-060

Issue Date

09-10-2026

Sheet Title

AV STANDARD DETAILS

Sheet Number

AV011