BLUE RIDGE TECHNOLOGIES Unified Lighting Control

Cable & Wire Standards

Project Part Number Ref.	
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Cabling is dependent on several factors, application type, distance, device power requirements and device distribution. Power and General wire gauges vary based on total ampere load (number of devices * individual loads) and should be calculated for each application. The specifications below describe most common applications requiring plenum rated cables. The provided part numbers are from Connect Air.

BACnet MS/TP

Communication	Copper, One pair, twisted, 100 - 130 Ω characteristic impedance, low capacitance 30 pf/ft conductor to	Max Distance Guage		4,000 ft 22 AWG
	conductor or less, shielded	Color		Green
		Symbol		CL3P-22/2-LC-S
		Part Number Conductor Colors		W221P-2010FGRIB White/Blue, Blue/White
CANbus				1 0 0 0 1
Communication	Copper, One pair, twisted, 100 - 130 Ω characteristic impedance, low capacitance 30 pf/ft conductor to	Max Distance Gauge		1,000 ft 22 AWG
	conductor or less, unshielded	Color		Blue
		Symbol		CL3P-22/2-LC
		Part Number Conductor Colors		W221P-2001B White/Blue, Blue
		Conductor Colors		Winte/Dide, Dide
Power 24VDC	Copper, One pair, twisted, unshielded	Max Distance Gauge		1,000 ft 22 AWG
		Color		Natural
		Symbol		CL3P-22/2
		Part Number		W221P-2005RIB
		Conductor Colors		White, Black
DMX				
Communication	Copper, One pair, twisted, 100 - 130 Ω characteristic impedance, low capacitance 30 pf/ft conductor to	Max Distance		4,000 ft 22 AWG
	conductor or less, shielded	Guage Color		Green
		Symbol		CL3P-22/2-LC-S
		Part Number		W221P-2010FGRIB
		Conductor Colors		White/Blue, Blue/White
Universal Inputs	General 24 VDC			
General	Copper, One pair, twisted, unshielded	Max Distance		1,000 ft
		Guage		22 AWG
		Color		Natural
		Symbol Part Number		CL3P-22/2 W221P-2005RIB
		Conductor Colors		White, Black
Sensors 3-Wire 2	4 VDC			
General	Copper, (3) Conductors, twisted, unshielded	Max Distance	500 ft	1,000 ft
		Guage Color	22 AWG Natural	18 AWG Natural
		Symbol	CL3P-22/3	CL3P-18/3
		Part Number	W223C-2036B	W183C-2052RIB
		Conductor Colors	White, Black, Red	White, Black, Red
Analog Outputs				
General	Copper, One pair, twisted, unshielded	Max Distance	500 ft 22 AWG	1,000 ft 18 AWG
		Guage Color	Natural	Natural
		Symbol	CL3P-22/2	CL3P-18/2
		Part Number	W221P-2005RIB	W181P-2051RIB
		Conductor Colors	White, Black	White, Black
Digital Outputs 2	4 VAC/VDC			
General	Copper, One pair, twisted, unshielded	Max Distance		1,000 ft
		Guage Color		22 AWG Natural
		Symbol		CL3P-22/2
		Part Number		W221P-2005RIB
		Conductor Colors		White, Black
Relay Outputs 12	20/277/347 VAC			
Relay Outputs 12 General	20/277/347 VAC Copper	Conductors Symbol	(2) 14-10 AWG	(1) 8 AWG

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