

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 conductor or less, shielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	4,000 ft 22 AWG Green CL3P-22/2-LC-S W221P-2010FGRIB White/Blue, Blue/White
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**CANbus**

Communication	Copper, One pair, twisted, 100 - 130 Ω characteristic impedance, low capacitance 30 pf/ft conductor to conductor or less, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	1,000 ft 22 AWG Blue CL3P-22/2-LC W221P-2001B White/Blue, Blue
Power 24VDC	Copper, One pair, twisted, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	1,000 ft 22 AWG Natural CL3P-22/2 W221P-2005RIB White, Black

**DMX**

Communication	Copper, One pair, twisted, 100 - 130 Ω characteristic impedance, low capacitance 30 pf/ft conductor to conductor or less, shielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	4,000 ft 22 AWG Green CL3P-22/2-LC-S W221P-2010FGRIB White/Blue, Blue/White
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**Universal Inputs General 24 VDC**

General	Copper, One pair, twisted, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	1,000 ft 22 AWG Natural CL3P-22/2 W221P-2005RIB White, Black
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**Sensors 3-Wire 24 VDC**

General	Copper, (3) Conductors, twisted, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	500 ft 1,000 ft 22 AWG 18 AWG Natural Natural CL3P-22/3 CL3P-18/3 W223C-2036B W183C-2052RIB White, Black, Red White, Black, Red
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**Analog Outputs 0-10V**

General	Copper, One pair, twisted, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	500 ft 1,000 ft 22 AWG 18 AWG Natural Natural CL3P-22/2 CL3P-18/2 W221P-2005RIB W181P-2051RIB White, Black White, Black
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**Digital Outputs 24 VAC/VDC**

General	Copper, One pair, twisted, unshielded	Max Distance Gauge Color Symbol Part Number Conductor Colors	1,000 ft 22 AWG Natural Natural CL3P-22/2 W221P-2005RIB White, Black
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**Relay Outputs 120/277/347 VAC**

General	Copper	Conductors Symbol	(2) 14-10 AWG (1) 8 AWG
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