

CONDUIT							CABLE AND WIRE						IS [A] LESS THAN 0.25C?	FINAL CONDUIT NOMINAL DIAMETER
FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.		
SP3	B4	18	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	1.403	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	3	0.57			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
							-	-	-	-	-			
P3	B4	18	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	0.273	YES	2
							-	-	-	-	-			
							-	-	-	-	-			
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							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
							-	-	-	-	-			
B4	B5	59	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	2	0.2	1.503	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	3	0.57			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
							-	-	-	-	-			

* NOTE: INCLUDE GROUNDING CONDUCTOR IN WIRE COUNT FOR LIGHTING CIRCUITS OF NOTATION "WITH GROUND."

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					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA			
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.		IN.	
P1	B3	3	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	0.273	YES	2	
							-	-	-	-	-				-
							-	-	-	-	-				-
							-	-	-	-	-				-
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							-	-	-	-	-				-
							-	-	-	-	-				-
SP2	B3	6	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	0	0	1.123	YES	3	
							SIGNALS	IMSA 19-1 OR 20-1	4/C # 14	1	0.16				
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	3	0.57				
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22				
							-	-	-	-	-				-
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P2	B3	22	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	0.273	YES	2	
							-	-	-	-	-				-
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					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.		IN.
SP1	B1	6	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	1.593	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	4/C # 14	1	0.16			
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	2	0.38			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	2	0.44			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
B2	B1	4	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	12/C # 14	1	0.41	0.41	YES	2
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