



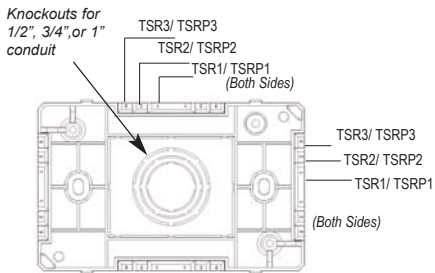
TSR and TSRP Surface Raceway Systems

Wire Fill Chart

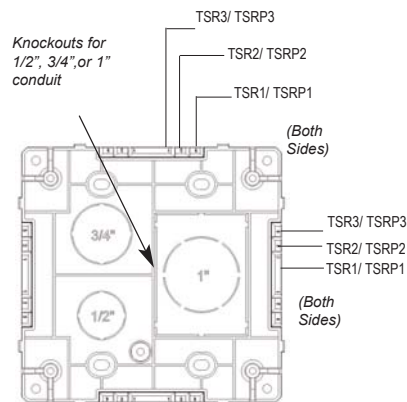
Wire Type	Wire Size	O.D. of Wire	Low Voltage - TSR						Power Rated - TSRP					
			TSR1		TSR2		TSR3		TSRP 1		TSRP 2		TSRP3	
			A = 0.220 in ²		A = 0.675 in ²		A = 1.384 in ²		A = 0.220 in ²		A = 0.651 in ²		A = 1.361 in ²	
Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	5	8	17	26	35	53	5	8	16	25	35	53
	3 Pr.	0.150	4	7	15	22	31	46	4	7	14	22	30	46
	4 Pr. Cat 5e	0.217	2	3	7	10	14	22	2	3	7	10	14	22
	4 Pr. Cat 6	0.240	1	2	5	8	12	18	1	2	5	8	12	18
	25 Pr.	0.410	0	0	2	3	4	6	0	0	1	2	4	6
Coax	RG58/U	0.193	3	4	9	13	18	28	2	4	8	13	18	27
	RG59/U or RG62/U	0.242	1	2	5	8	12	18	1	2	4	6	9	14
	RG6/U	0.270	1	2	4	7	9	14	1	2	4	6	9	14
Fiber Optic FA Jacket OFNP	2 Strand	0.175	3	5	11	16	23	34	3	5	10	16	22	33
	4 Strand	0.185	3	4	10	15	20	30	3	4	9	14	20	30
	6 Strand	0.210	2	3	7	11	15	23	2	3	7	11	15	23
Electrical Wire	14 AWG THHN	0.105	-	-	-	-	-	-	-	8	-	11	-	15
	12 AWG THHN	0.122	-	-	-	-	-	-	6	-	9	-	12	
	10 AWG THHN	0.153	-	-	-	-	-	-	4	-	6	-	7	

Formula used to calculate communications wire fill capacity - Numbers of wires = duct / {1/4 x 3.14 x (wire o.d.)² x 0.4 or 0.6. Per ANSI/TIA/EIA-569-A-: SPEC = 40% fill which is recommended for planning perimeter pathways
 MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation
 MAX (for power) = Maximum number determined by UL temperature testing
 Note: It is recommended to place electrical cables loosely in raceway

TSR and TSRP Junction Box Knockout Locations



JB1, JB2 - SINGLE GANG



JBD - DUAL GANG

