

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

Change the values in the cells that are highlighted in yellow to estimate cable fill values for different diameter cables or fill ratios.

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Fill			Maximum Cable Fill		
		Interior Width (in.)	Interior Depth (in.)	Cable		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
				OD (in.)		0.200	0.250	0.300	0.200	0.250	0.300
				Fill (%)		50%	50%	50%	100%	100%	100%
<b>Vertical Cable Managers for Racks</b>											
11374-XXX	SS Wide Vertical Cable Sect, 6"W	5.6	6.0	33.6		267	171	119	535	342	238
11378-X02	Extension, SS Nar Vert Cable Sect, 2'H x 3.65"W	3.5	6.0	21.0		167	107	74	334	214	149
11378-X01	Extension, SS Wide Vert Cable Sect, 2'H x 6"W	5.6	6.0	33.6		267	171	119	535	342	238
11584-X02	Extension, SS Nar Vert Cable Sect, 1'H x 3.65"W	3.5	6.0	21.0		167	107	74	334	214	149
11584-X01	Extension, SS Wide Vert Cable Sect, 1'H x 6"W	5.6	6.0	33.6		267	171	119	535	342	238
11729-XXX	DS Wide Vertical Cable Sect, 6"W (Front/Rear)	5.7	6.0	34.2	Front	272	174	121	544	348	242
		5.7	6.0	34.2	Rear	272	174	121	544	348	242
11730-XXX	SS Narrow Vertical Cable Section, 3.65"W	3.5	6.0	21.0		167	107	74	334	214	149
11781-X02	Extension, DS Nar Vert Cable Sect, 1'H x 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	167	107	74	334	214	149
		3.5	6.0	21.0	Rear	167	107	74	334	214	149
11781-X01	Extension, DS Wide Vert Cable Sect, 1'H x 6"W (Front/Rear)	5.7	6.0	34.2	Front	272	174	121	544	348	242
		5.7	6.0	34.2	Rear	272	174	121	544	348	242
11782-X02	Extension, DS Nar Vert Cable Sect, 2'H x 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	167	107	74	334	214	149
		3.5	6.0	21.0	Rear	167	107	74	334	214	149
11782-X01	Extension, DS Wide Vert Cable Sect, 2'H x 6"W (Front/Rear)	5.7	6.0	34.2	Front	272	174	121	544	348	242
		5.7	6.0	34.2	Rear	272	174	121	544	348	242
12096-XXX	DS Narrow Vertical Cable Sect, 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	167	107	74	334	214	149
		3.5	6.0	21.0	Rear	167	107	74	334	214	149
12830-X03	SS Global Vertical Cabling Section, 3.65"W X 6.76"D, 7'H	3.1	5.5	17.0		135	87	60	271	173	120
12831-X03	SS Global Vertical Cabling Section, 6"W X 6.76"D, 7'H	5.4	5.5	29.7		236	151	105	473	303	210
12832-X03	SS Global Vertical Cabling Section, 3.65"W X 9.30"D, 7'H	3.1	8.0	24.8		197	126	88	395	253	175
12833-X03	SS Global Vertical Cabling Section, 6"W X 9.30"D, 7'H	5.4	8.0	43.2		344	220	153	688	440	306
12834-X03	SS Global Vertical Cabling Section, 10"W X 6.76"D, 7'H	9.4	5.5	51.7		411	263	183	823	527	366
12835-X03	SS Global Vertical Cabling Section, 10"W X 9.30"D, 7'H	9.4	8.0	75.2		598	383	266	1197	766	532

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Cable	Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a	
						OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
						Fill (%)	50%	50%	50%	100%	100%	100%
12836-X01	Global Vertical Cabling Section, Ring Set, 3.65"W X 6.38"D, 7 EA	3.5	6.0	21.0		167	107	74	334	214	149	
12836-X02	Global Vertical Cabling Section, Ring Set, 6"W X 6.38"D, 7 EA	5.8	6.0	34.8		277	177	123	554	354	246	
12836-X03	Global Vertical Cabling Section, Ring Set, 10"W X 6.38"D, 7 EA	9.8	6.0	58.8		468	299	208	936	599	416	
13901-7XX	DS Global Vertical Cabling Section, 3.65"W X 13.52"D, 7'H	Varies	7.5	18.5		147	94	65	294	188	131	
13902-7XX	Velocity Single-Sided Vertical Cable Manager, 6"W x 9.8"D	Varies	7.5	37.0		294	188	131	589	377	262	
13904-7XX	Velocity Single-Sided Vertical Cable Manager, 10"W x 10.3"D	Varies	7.5	67.7		539	345	239	1077	690	479	
13905-7XX	Velocity Single-Sided Vertical Cable Manager, 12"W x 10.4"D	Varies	7.5	83.1		661	423	294	1323	846	588	
13911-7XX	Velocity Double-Sided Vertical Cable Manager, 3.6"W x 16.4"D	Varies	7.5	18.5	Front	147	94	65	294	188	131	
		Varies	5.5	13.7	Rear	109	70	48	218	140	97	
13912-7XX	Velocity Double-Sided Vertical Cable Manager, 6"W x 16.6"D	Varies	7.5	37.0	Front	294	188	131	589	377	262	
		Varies	5.5	27.2	Rear	216	139	96	433	277	192	
13914-7XX	Velocity Double-Sided Vertical Cable Manager, 10"W x 17.5"D	Varies	7.5	67.7	Front	539	345	239	1077	690	479	
		Varies	5.5	49.7	Rear	395	253	176	791	506	352	
13915-7XX	Velocity Double-Sided Vertical Cable Manager, 12"W x 17.8"D	Varies	7.5	83.1	Front	661	423	294	1323	846	588	
		Varies	5.5	60.9	Rear	485	310	215	969	620	431	
13934-71X	Velocity Cable Ring Kits, 3.6"W	3.4	6.8	23.1		184	118	82	368	235	163	
13934-72X	Velocity Cable Ring Kits, 6"W	5.8	6.8	39.4		314	201	139	627	401	279	
13934-74X	Velocity Cable Ring Kits, 10"W	9.8	6.8	66.6		530	339	236	1060	678	471	
13934-75X	Velocity Cable Ring Kits, 12"W	11.8	6.8	80.2		638	408	284	1276	817	567	
14830-X03	DS Global Vertical Cabling Section, 3.65"W X 13.52"D, 7'H	3.1	5.4	16.7	Front	133	85	59	266	170	118	
		3.1	5.4	16.7	Rear	133	85	59	266	170	118	
14831-X03	DS Global Vertical Cabling Section, 6"W X 13.52"D, 7'H	5.4	5.4	29.1	Front	232	148	103	463	296	206	
		5.4	5.4	29.1	Rear	232	148	103	463	296	206	
14832-X03	DS Global Vertical Cabling Section, 10"W X 13.52"D, 7'H	9.4	5.4	50.7	Front	403	258	179	807	516	359	
		9.4	5.4	50.7	Rear	403	258	179	807	516	359	
30091-XXX	SS MCS Master Cabling Section, 4.4"W	Varies	6.7	24.4		194	124	86	388	249	173	
30092-XXX	SS MCS Master Cabling Section, 6"W	Varies	6.7	35.2		280	179	124	560	359	249	
30093-XXX	SS MCS Master Cabling Section, 10"W	Varies	6.7	62.3		496	317	220	992	635	441	

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Cable	Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a	
						OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
						Fill (%)	50%	50%	50%	100%	100%	100%
30094-XXX	DS MCS Master Cabling Section, 4.4"W (Front/Rear)	Varies	6.7	24.2	Front	193	123	86	385	246	171	
		Varies	6.7	24.2	Rear	193	123	86	385	246	171	
30095-XXX	DS MCS Master Cabling Section, 6"W (Front/Rear)	Varies	6.7	35.1	Front	279	179	124	559	358	248	
		Varies	6.7	35.1	Rear	279	179	124	559	358	248	
30096-XXX	DS MCS Master Cabling Section, 10"W (Front/Rear)	Varies	6.7	62.3	Front	496	317	220	992	635	441	
		Varies	6.7	62.3	Rear	496	317	220	992	635	441	
30161-7XX	CCS Combination Cabling Section for 3"D Rack, 3.65"W (Front/Rear)	3.2	5.2	16.6	Front	132	85	59	264	169	117	
		3.2	5.2	16.6	Rear	132	85	59	264	169	117	
30162-7XX	CCS Combination Cabling Section for 3"D Rack, 6"W (Front/Rear)	5.6	5.2	29.1	Front	232	148	103	463	296	206	
		5.6	5.2	29.1	Rear	232	148	103	463	296	206	
30163-7XX	CCS Combination Cabling Section for 3"D Rack, 10"W (Front/Rear)	9.6	5.2	49.9	Front	397	254	176	794	508	353	
		9.6	5.2	49.9	Rear	397	254	176	794	508	353	
30164-7XX	CCS Combination Cabling Section for 6"D Rack, 3.65"W (Front/Rear)	3.2	6.7	21.4	Front	170	109	76	341	218	151	
		3.2	6.0	19.2	Rear	153	98	68	306	196	136	
30165-7XX	CCS Combination Cabling Section for 6"D Rack, 6"W (Front/Rear)	5.6	6.7	37.5	Front	298	191	133	597	382	265	
		5.6	6.0	33.6	Rear	267	171	119	535	342	238	
30166-7XX	CCS Combination Cabling Section for 6"D Rack, 10"W (Front/Rear)	9.6	6.7	64.3	Front	512	327	227	1023	655	455	
		9.6	6.0	57.6	Rear	458	293	204	917	587	407	
32573-X00	Cable Ring Kit for 6"W (150 mm) Motive Single-Sided Vertical Cable Manager	5.6	8.5	47.0		374	239	166	748	479	332	
32573-X01	Cable Ring Kit for 8"W (200 mm) Motive Single-Sided Vertical Cable Manager	7.6	8.5	63.9		508	325	226	1017	651	452	
32573-X02	Cable Ring Kit for 10"W (250 mm) Motive Single-Sided Vertical Cable Manager	9.6	8.5	80.8		643	412	286	1286	823	572	
32573-X03	Cable Ring Kit for 12"W (300 mm) Motive Single-Sided Vertical Cable Manager	11.6	8.5	97.8		778	498	346	1557	996	692	
32573-X04	Cable Ring Kit for 15"W (380 mm) Motive Single-Sided Vertical Cable Manager	14.6	8.5	123.2		980	627	436	1961	1255	871	
32610-XXX	Motive Single-Sided Vertical Cable Manager, 6"W x 15.5"D	Varies	11.5	43.7		348	223	155	696	445	309	

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
32611-XXX	Motive Single-Sided Vertical Vertical Cable Manager, 8"W x 15.5"D	Varies	11.5	66.7		531	340	236	1062	679	472
32612-XXX	Motive Single-Sided Vertical Vertical Cable Manager, 10"W x 15.5"D	Varies	11.5	89.7		714	457	317	1428	914	634
32613-XXX	Motive Single-Sided Vertical Vertical Cable Manager, 12"W x 15.5"D	Varies	11.5	112.7		897	574	399	1794	1148	797
32614-XXX	Motive Single-Sided Vertical Vertical Cable Manager, 15"W x 15.5"D	Varies	11.5	147.2		1171	750	521	2343	1499	1041
32620-XXX	Motive Double-Sided Vertical Vertical Cable Manager, 6"W x 23.6"D (Front/Rear)	Varies	8.7	33.0	Front	263	168	117	525	336	233
		Varies	8.7	33.0	Rear	263	168	117	525	336	233
32621-XXX	Motive Double-Sided Vertical Vertical Cable Manager, 8"W x 23.6"D (Front/Rear)	Varies	8.7	50.4	Front	401	257	178	802	513	357
		Varies	8.7	50.4	Rear	401	257	178	802	513	357
32622-XXX	Motive Double-Sided Vertical Vertical Cable Manager, 10"W x 23.6"D (Front/Rear)	Varies	8.7	67.8	Front	540	345	240	1079	691	480
		Varies	8.7	67.8	Rear	540	345	240	1079	691	480
32623-XXX	Motive Double-Sided Vertical Vertical Cable Manager, 12"W x 23.6"D (Front/Rear)	Varies	8.7	85.2	Front	678	434	301	1356	868	603
		Varies	8.7	85.2	Rear	678	434	301	1356	868	603
32624-XXX	Motive Double-Sided Vertical Vertical Cable Manager, 15"W x 23.6"D (Front/Rear)	Varies	8.7	111.3	Front	886	567	394	1771	1134	787
		Varies	8.7	111.3	Rear	886	567	394	1771	1134	787
35475-701	Evolution Fiber Segregation Kit	2.4	4.0	9.6		76	49	34	153	98	68
35511-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 6"W x 13.2"D	Varies	10.6	49.5		394	252	175	788	504	350
35512-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 8"W x 13.2"D	Varies	10.6	70.6		562	360	250	1124	719	499
35513-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 10"W x 13.2"D	Varies	10.6	91.7		730	467	324	1459	934	649
35514-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 12"W x 13.2"D	Varies	10.6	112.9		898	575	399	1797	1150	799
35515-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 15"W x 13.2"D	Varies	10.6	144.6		1151	736	511	2301	1473	1023
35521-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 6"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	7.5	36.9	40%	294	188	131	587	376	261
		Varies	10.1	46.1	50%	367	235	163	734	470	326
		Varies	12.6	55.4	60%	441	282	196	882	564	392
		Varies	7.5	53.0	40%	422	270	187	844	540	375

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
35522-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 8"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	10.1	66.3	50%	528	338	234	1055	675	469
		Varies	12.6	79.6	60%	633	405	282	1267	811	563
35523-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 10"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	7.5	69.2	40%	551	352	245	1101	705	489
		Varies	10.1	86.4	50%	688	440	306	1375	880	611
		Varies	12.6	103.7	60%	825	528	367	1650	1056	734
35524-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 12"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	7.5	85.3	40%	679	434	302	1358	869	603
		Varies	10.1	106.6	50%	848	543	377	1697	1086	754
		Varies	12.6	127.9	60%	1018	651	452	2036	1303	905
35525-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 15"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	7.5	109.4	40%	871	557	387	1741	1114	774
		Varies	10.1	136.8	50%	1089	697	484	2177	1393	968
		Varies	12.6	164.2	60%	1307	836	581	2613	1673	1161
35571-70X	Evolution g3 Combination Cable Manager, 6"W x 20.2"D	Varies	10.1	49.5	Front	394	252	175	788	504	350
		5.5	5.9	32.4	Rear	258	165	115	516	330	229
35572-70X	Evolution g3 Combination Cable Manager, 8"W x 20.2"D	Varies	10.1	70.6	Front	562	360	250	1124	719	499
		7.5	5.9	44.2	Rear	352	225	156	703	450	313
35573-70X	Evolution g3 Combination Cable Manager, 10"W x 20.2"D	Varies	10.1	91.7	Front	730	467	324	1459	934	649
		9.5	5.9	56.0	Rear	446	285	198	891	570	396
35574-70X	Evolution g3 Combination Cable Manager, 12"W x 20.2"D	Varies	10.1	112.9	Front	898	575	399	1797	1150	799
		11.5	5.9	67.8	Rear	540	345	240	1079	691	480
35575-70X	Evolution g3 Combination Cable Manager, 15"W x 20.2"D	Varies	10.1	144.6	Front	1151	736	511	2301	1473	1023
		14.5	5.9	85.5	Rear	680	435	302	1361	871	605
40092-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 6"W	Varies	9.3	46.1		367	235	163	734	470	326
40093-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 10"W	Varies	9.3	83.4		664	425	295	1327	850	590
40094-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 12"W	Varies	9.3	102.0		812	519	361	1623	1039	722
40095-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 6"W (Front/Rear)	Varies	9.3	46.8	Front	372	238	166	745	477	331
		Varies	9.3	46.8	Rear	372	238	166	745	477	331
40096-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 10"W	Varies	9.3	84.1	Front	669	428	297	1338	857	595
		Varies	9.3	84.1	Rear	669	428	297	1338	857	595
40097-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 12"W (Front/Rear)	Varies	9.3	102.8	Front	818	524	364	1636	1047	727
		Varies	9.3	102.8	Rear	818	524	364	1636	1047	727
40098-7XX	CCS - EFX Combination Cabling Section With Extended Fingers	5.4	7.8	42.1	Front	335	214	149	670	429	298

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Cable	Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a	
						OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
						Fill (%)	50%	50%	50%	100%	100%	100%
	for 3"D Rack, 6"W (Front/Rear)	5.6	5.2	29.1	Rear	232	148	103	463	296	206	
40099-7XX	CCS - EFX Combination Cabling Section With Extended Fingers for 3"D Rack, 10"W (Front/Rear)	9.4	7.8	73.3	Front	583	373	259	1167	747	518	
		9.6	5.2	49.9	Rear	397	254	176	794	508	353	
40100-7XX	CCS - EFX Combination Cabling Section With Extended Fingers for 3"D Rack, 12"W (Front/Rear)	11.4	7.8	88.9	Front	707	453	314	1415	906	629	
		11.6	5.2	60.3	Rear	480	307	213	960	614	427	
55100-703	High Density Patching Frame, <u>per side</u> (Front/Rear)	2.3	5.5	12.6	Front	100	64	45	201	128	89	
		3.2	11.3	36.1	Rear	287	184	128	575	368	255	
57011-703	Velocity Standard Pack with a Single-Sided Vertical Cable Manager, 3.6"W x 9.7"D	Varies	7.5	18.5		147	94	65	294	188	131	
57012-703	Velocity Standard Pack with a Double-Sided Vertical Cable Manager, 3.6"W x 16.4"D	Varies	7.5	18.5	Front	147	94	65	294	188	131	
		Varies	5.5	13.7	Rear	109	70	48	218	140	97	
57013-703	Velocity Standard Pack with a Single-Sided Vertical Cable Manager, 6"W x 9.8"D	Varies	7.5	37.0		294	188	131	589	377	262	
57014-703	Velocity Standard Pack with a Double-Sided Vertical Cable Manager, 6"W x 16.6"D	Varies	7.5	37.0	Front	294	188	131	589	377	262	
		Varies	5.5	27.2	Rear	216	139	96	433	277	192	
<b>Vertical Cable Managers for Cabinet Enclosures</b>												
11809-XXX	SlimFrame Vertical Cable Ring Manager	0.9	3.3	2.9		23	15	10	46	30	21	
12465-XXX	MegaFrame Vertical Cable Ring Sect	2.3	5.5	12.6		100	64	45	201	128	89	
13170-XXX	Enhanced MegaFrame Vertical Cbl Mgr, Wide	3.9	8.3	32.3		257	165	114	514	329	228	
13171-XXX	Enhanced MegaFrame Vertical Cbl Mgr, Narrow	2.3	4.8	11.0		88	56	39	175	112	78	
13485-XXX	Vertical Cbl Mgr for Cube-iT Wall-Mount Floor-Supported Cabinet	2.7	4.8	12.9		103	66	46	205	131	91	
14440-X00	Z4 SeismicFrame Ring Cable Manager, 40U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21	
14440-X01	Z4 SeismicFrame Ring Cable Manager, 43U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21	
14445-X00	Z4 SeismicFrame Ring Cable Manager, 40U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104	
14445-X01	Z4 SeismicFrame Ring Cable Manager, 43U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104	
14465-X00	Z4 SeismicFrame Cable Lashing Bracket, 40U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12	
14465-X01	Z4 SeismicFrame Cable Lashing Bracket, 43U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12	
16272-C02	TeraFrame HD Cable Lashing Bar, 42U	1.5	1 x 1.5" Ø	1.7		14	9	6	27	17	12	
16272-C05	TeraFrame HD Cable Lashing Bar, 45U	1.5	1 x 1.5" Ø	1.7		14	9	6	27	17	12	
16272-C07	TeraFrame HD Cable Lashing Bar, 47U	1.5	1 x 1.5" Ø	1.7		14	9	6	27	17	12	
16273-C02	TeraFrame HD Cable Lashing Bracket, 42U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36	



Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
16273-C05	TeraFrame HD Cable Lashing Bracket, 45U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
16273-C07	TeraFrame HD Cable Lashing Bracket, 47U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
16275-C02	TeraFrame HD Vertical Cable Ring Manager, 42U	0.9	3.3	2.9		23	15	10	46	30	21
16275-C05	TeraFrame HD Vertical Cable Ring Manager, 45U	0.9	3.3	2.9		23	15	10	46	30	21
16275-C07	TeraFrame HD Vertical Cable Ring Manager, 47U	0.9	3.3	2.9		23	15	10	46	30	21
25104-001	GT-Series GlobalFrame, Cable Ring Kit, for 600 mm W cabinets	1.0	4.4	4.4		35	22	16	70	45	31
25106-001	GT-Series GlobalFrame, Cable Ring Kit, with Large Cable Rings, for 800 mm W cabinets	4.2	8.6	36.1		287	184	128	575	368	255
25106-002	GT-Series GlobalFrame, Cable Ring Kit, with Medium Cable Rings, for 800 mm W cabinets	4.2	3.5	14.7		117	75	52	234	150	104
25107-001	GT-Series GlobalFrame, Snap-In Grommet Kit, 1 grommet	3.2	5.5	17.6		140	90	62	280	179	124
25108-001	GT-Series GlobalFrame, Snap-In Grommet & Plug Kit, 1 grommet	3.2	5.5	17.6		140	90	62	280	179	124
25110-700	GT-Series GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 42U x 600 mm W Cabinets	1.0	6.1	6.1		49	31	22	97	62	43
25120-706	GT-Series GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 42U x 800 mm W cabinets	4.8	8.5	40.8		325	208	144	649	416	289
25402-700	GT-Series GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 42U x 800 mm cabinet	4.2	8.6	36.1		287	184	128	575	368	255
25402-701	GT-Series GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 42U x 800 mm cabinet	4.2	3.5	14.7		117	75	52	234	150	104
25403-701	GT-Series GlobalFrame, Cable Lashing Bracket, 42U x 125 mm	5.0	2.0	10.0		80	51	35	159	102	71
25404-706	GT-Series GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 42U x 800 mm W cabinets	4.8	6.1	29.2		232	149	103	465	297	207
39087-X00	Ring Cable Manager, 6-slide, 42U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X01	Ring Cable Manager, 6-slide, 43U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X02	Ring Cable Manager, 6-slide, 44U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X03	Ring Cable Manager, 6-slide, 45U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X04	Ring Cable Manager, 6-slide, 46U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X05	Ring Cable Manager, 6-slide, 47U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X06	Ring Cable Manager, 6-slide, 48U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39087-X07	Ring Cable Manager, 6-slide, 49U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X08	Ring Cable Manager, 6-slide, 50U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X09	Ring Cable Manager, 6-slide, 51U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39087-X10	Ring Cable Manager, 6-slide, 52U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39088-X00	Ring Cable Manager, 6-slide, 42U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X01	Ring Cable Manager, 6-slide, 43U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X02	Ring Cable Manager, 6-slide, 44U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X03	Ring Cable Manager, 6-slide, 45U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X04	Ring Cable Manager, 6-slide, 46U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X05	Ring Cable Manager, 6-slide, 47U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X06	Ring Cable Manager, 6-slide, 48U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X07	Ring Cable Manager, 6-slide, 49U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X08	Ring Cable Manager, 6-slide, 50U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X09	Ring Cable Manager, 6-slide, 51U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39088-X10	Ring Cable Manager, 6-slide, 52U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39089-X00	Ring Cable Manager, 6-slide, 42U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X01	Ring Cable Manager, 6-slide, 43U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X02	Ring Cable Manager, 6-slide, 44U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X03	Ring Cable Manager, 6-slide, 45U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X04	Ring Cable Manager, 6-slide, 46U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X05	Ring Cable Manager, 6-slide, 47U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X06	Ring Cable Manager, 6-slide, 48U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X07	Ring Cable Manager, 6-slide, 49U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X08	Ring Cable Manager, 6-slide, 50U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X09	Ring Cable Manager, 6-slide, 51U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39089-X10	Ring Cable Manager, 6-slide, 52U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39112-X11	Finger Cable Manager, 42U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X12	Finger Cable Manager, 43U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X13	Finger Cable Manager, 44U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X14	Finger Cable Manager, 45U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X15	Finger Cable Manager, 46U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154



Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39112-X16	Finger Cable Manager, 47U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X17	Finger Cable Manager, 48U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X18	Finger Cable Manager, 49U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X19	Finger Cable Manager, 50U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X20	Finger Cable Manager, 51U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X21	Finger Cable Manager, 52U x 700 mm W	2.6	8.4	21.8		173	111	77	347	222	154
39112-X22	Finger Cable Manager, 42U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X23	Finger Cable Manager, 43U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X24	Finger Cable Manager, 44U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X25	Finger Cable Manager, 45U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X26	Finger Cable Manager, 46U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X27	Finger Cable Manager, 47U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X28	Finger Cable Manager, 48U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X29	Finger Cable Manager, 49U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X30	Finger Cable Manager, 50U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X31	Finger Cable Manager, 51U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X32	Finger Cable Manager, 52U x 800 mm W	4.6	8.4	38.6		307	197	137	614	393	273
39112-X33	Finger Cable Manager, 42U x 750 mm W	3.7	8.4	31.0		247	158	110	493	316	219
39112-X36	Finger Cable Manager, 45U x 750 mm W	3.7	8.4	31.0		247	158	110	493	316	219
39112-X39	Finger Cable Manager, 48U x 750 mm W	3.7	8.4	31.0		247	158	110	493	316	219
39120-X00	Finger Cable Manager, 42U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X01	Finger Cable Manager, 43U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X02	Finger Cable Manager, 44U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X03	Finger Cable Manager, 45U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X04	Finger Cable Manager, 46U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X05	Finger Cable Manager, 47U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X06	Finger Cable Manager, 48U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X07	Finger Cable Manager, 49U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X08	Finger Cable Manager, 50U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X09	Finger Cable Manager, 51U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21
39120-X10	Finger Cable Manager, 52U x 600 mm W	0.5	6.0	3.0		24	15	11	48	31	21

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39124-X00	Cable Lashing Bracket, 6-slide, 42U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X01	Cable Lashing Bracket, 6-slide, 43U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X02	Cable Lashing Bracket, 6-slide, 44U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X03	Cable Lashing Bracket, 6-slide, 45U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X04	Cable Lashing Bracket, 6-slide, 46U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X05	Cable Lashing Bracket, 6-slide, 47U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X06	Cable Lashing Bracket, 6-slide, 48U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X07	Cable Lashing Bracket, 6-slide, 49U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X08	Cable Lashing Bracket, 6-slide, 50U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X09	Cable Lashing Bracket, 6-slide, 51U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39124-X10	Cable Lashing Bracket, 6-slide, 52U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39127-X00	Ring Cable Manager, 4-slide, 42U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X01	Ring Cable Manager, 4-slide, 43U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X02	Ring Cable Manager, 4-slide, 44U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X03	Ring Cable Manager, 4-slide, 45U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X04	Ring Cable Manager, 4-slide, 46U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X05	Ring Cable Manager, 4-slide, 47U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X06	Ring Cable Manager, 4-slide, 48U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X07	Ring Cable Manager, 4-slide, 49U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X08	Ring Cable Manager, 4-slide, 50U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X09	Ring Cable Manager, 4-slide, 51U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39127-X10	Ring Cable Manager, 4-slide, 52U x 600 mm W	0.9	3.3	2.9		23	15	10	46	30	21
39128-X00	Ring Cable Manager, 4-slide, 42U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X01	Ring Cable Manager, 4-slide, 43U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X02	Ring Cable Manager, 4-slide, 44U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X03	Ring Cable Manager, 4-slide, 45U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X04	Ring Cable Manager, 4-slide, 46U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X05	Ring Cable Manager, 4-slide, 47U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X06	Ring Cable Manager, 4-slide, 48U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X07	Ring Cable Manager, 4-slide, 49U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X08	Ring Cable Manager, 4-slide, 50U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39128-X09	Ring Cable Manager, 4-slide, 51U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39128-X10	Ring Cable Manager, 4-slide, 52U x 700 mm W	2.3	5.5	12.6		100	64	45	201	128	89
39129-X00	Ring Cable Manager, 4-slide, 42U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X01	Ring Cable Manager, 4-slide, 43U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X02	Ring Cable Manager, 4-slide, 44U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X03	Ring Cable Manager, 4-slide, 45U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X04	Ring Cable Manager, 4-slide, 46U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X05	Ring Cable Manager, 4-slide, 47U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X06	Ring Cable Manager, 4-slide, 48U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X07	Ring Cable Manager, 4-slide, 49U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X08	Ring Cable Manager, 4-slide, 50U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X09	Ring Cable Manager, 4-slide, 51U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39129-X10	Ring Cable Manager, 4-slide, 52U x 800 mm W	4.2	3.5	14.7		117	75	52	234	150	104
39131-X00	Cable Lashing Bracket, 4-slide, 42U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X01	Cable Lashing Bracket, 4-slide, 43U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X02	Cable Lashing Bracket, 4-slide, 44U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X03	Cable Lashing Bracket, 4-slide, 45U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X04	Cable Lashing Bracket, 4-slide, 46U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X05	Cable Lashing Bracket, 4-slide, 47U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X06	Cable Lashing Bracket, 4-slide, 48U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X07	Cable Lashing Bracket, 4-slide, 49U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X08	Cable Lashing Bracket, 4-slide, 50U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X09	Cable Lashing Bracket, 4-slide, 51U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39131-X10	Cable Lashing Bracket, 4-slide, 52U	1.6	1 x 1.5" Ø	1.7		14	9	6	27	17	12
39235-X00	Finger Cable Manager, Short, 42U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X01	Finger Cable Manager, Short, 43U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X02	Finger Cable Manager, Short, 44U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X03	Finger Cable Manager, Short, 45U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X04	Finger Cable Manager, Short, 46U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X05	Finger Cable Manager, Short, 47U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X06	Finger Cable Manager, Short, 48U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39235-X07	Finger Cable Manager, Short, 49U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X08	Finger Cable Manager, Short, 50U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X09	Finger Cable Manager, Short, 51U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X10	Finger Cable Manager, Short, 52U x 700 mm W	2.6	6.0	15.6		124	79	55	248	159	110
39235-X22	Finger Cable Manager, Short, 42U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X23	Finger Cable Manager, Short, 43U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X24	Finger Cable Manager, Short, 44U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X25	Finger Cable Manager, Short, 45U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X26	Finger Cable Manager, Short, 46U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X27	Finger Cable Manager, Short, 47U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X28	Finger Cable Manager, Short, 48U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X29	Finger Cable Manager, Short, 49U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X30	Finger Cable Manager, Short, 50U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X31	Finger Cable Manager, Short, 51U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X32	Finger Cable Manager, Short, 52U x 800 mm W	4.6	6.0	27.8		221	142	98	442	283	197
39235-X33	Finger Cable Manager, Short, 42U x 750 mm W	3.7	6.0	21.6		172	110	76	344	220	153
39235-X36	Finger Cable Manager, Short, 45U x 750 mm W	3.7	6.0	21.6		172	110	76	344	220	153
39235-X39	Finger Cable Manager, Short, 48U x 750 mm W	3.7	6.0	21.6		172	110	76	344	220	153
39380-X00	Cable Lashing Manager, Slim, 42U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X01	Cable Lashing Manager, Slim, 43U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X02	Cable Lashing Manager, Slim, 44U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X03	Cable Lashing Manager, Slim, 45U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X04	Cable Lashing Manager, Slim, 46U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X05	Cable Lashing Manager, Slim, 47U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X06	Cable Lashing Manager, Slim, 48U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X07	Cable Lashing Manager, Slim, 49U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X08	Cable Lashing Manager, Slim, 50U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X09	Cable Lashing Manager, Slim, 51U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39380-X10	Cable Lashing Manager, Slim, 52U	5.1	3 x 1.5" Ø	5.1		41	26	18	81	52	36
39381-X00	Cable Lashing Manager, Wide, 42U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X01	Cable Lashing Manager, Wide, 43U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
39381-X02	Cable Lashing Manager, Wide, 44U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X03	Cable Lashing Manager, Wide, 45U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X04	Cable Lashing Manager, Wide, 46U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X05	Cable Lashing Manager, Wide, 47U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X06	Cable Lashing Manager, Wide, 48U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X07	Cable Lashing Manager, Wide, 49U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X08	Cable Lashing Manager, Wide, 50U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X09	Cable Lashing Manager, Wide, 51U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
39381-X10	Cable Lashing Manager, Wide, 52U	9.8	5 x 1.5" Ø	8.5		68	43	30	135	87	60
40970-704	Vertical Cbl Mgmt Section for CUBE-iT Wall-Mount Cabinet	1.6	5.0	8.0		64	41	28	127	81	57
40971-XXX	Lashing Bracket for CUBE-iT Wall-Mount Cabinet	1.6	4.0	6.4		51	33	23	102	65	45
<b>Horizontal Cable Managers for Racks and Cabinet Enclosures</b>											
10365-XXX	Horizontal Cable Tray	2.0	4.7	9.4		75	48	33	150	96	66
11563-X01	Large Horiz Cable Ring, Individual	2.8	6.0	16.8		134	86	59	267	171	119
11564-XXX	Large Horiz Ring Panel, 2U	2.8	6.0	16.8		134	86	59	267	171	119
11752-XXX	Rack Cable Mgr, Small Ring, 1U	1.2	0.9	1.0		8	5	4	16	10	7
11753-XXX	Rack Cable Mgr, Medium Ring, 2U	2.5	1.2	3.0		24	15	11	48	31	21
12183-XXX	Upper Jumper Tray, 2U, 3.5"D	1.9	3.3	6.2		49	32	22	99	63	44
12185-XXX	Lower Jumper Tray, Single, 2U	2.0	3.3	6.6		53	34	23	105	67	47
12186-X01	Transition Plate	1.9	3.3	6.2		49	32	22	99	63	44
12187-XXX	Lower Jumper Tray, Double, 3U	3.8	3.3	12.5		99	64	44	199	127	88
12382-XXX	Rack TopMount Cable Trough, 6"D	2.0	5.8	11.6		92	59	41	185	118	82
12383-XXX	Rack TopMount Cable Trough, 9"D	1.9	8.8	16.7		133	85	59	266	170	118
12541-X19	19" Horiz Wire Mgmt Panel, 1U, w/o Spools	1.4	2.4	3.3		26	17	12	53	34	23
12542-X19	19" Horiz Wire Mgmt Panel, 2U, w/o Spools	3.2	2.4	7.6		60	39	27	121	77	54
13070-X19	19" Horiz Wire Mgmt Panel, 1U	1.4	2.4	3.3		26	17	12	53	34	23
13075-X19	19" Horiz Wire Mgmt Panel, 2U	3.2	2.4	7.6		60	39	27	121	77	54
13168-XXX	Enhanced MegaFrame FTB Cbl Tray, Wide	3.8	2.4	9.1		72	46	32	145	93	64
13169-XXX	Enhanced MegaFrame FTB Cbl Tray, Narrow	1.7	2.4	4.0		32	20	14	64	41	28
13183-XXX	Upper Jumper Tray, 2U, 6"D	2.9	5.8	16.8		134	86	59	267	171	119
13517-701	Rack-Mount Cable Shelf (sum of 3 openings)	0.7	11.4	8.0		64	41	28	127	81	57

Updated

Chatsworth Products

CPI-Cable Fill Table

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Fill			Maximum Cable Fill		
		Interior Width (in.)	Interior Depth (in.)	Cable		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
				OD (in.)		0.200	0.250	0.300	0.200	0.250	0.300
				Fill (%)		50%	50%	50%	100%	100%	100%
13930-701	Velocity SS Horizontal Cable Manager, 1U	Varies	3.2	2.9		23	15	10	46	30	21
13930-702	Velocity SS Horizontal Cable Manager, 2U	Varies	3.2	9.7		77	49	34	154	99	69
13930-703	Velocity SS Horizontal Cable Manager, 3U	Varies	3.2	16.5		131	84	58	263	168	117
14485-X00	Z4 SeismicFrame FTR Cable Manager, 800 mm W	2.5	3.0	7.5		60	38	27	119	76	53
30130-7XX	Univ Horiz Cable Mgr, 2U	2.7	3.9	10.5		84	53	37	167	107	74
30131-7XX	Univ Horiz Cable Mgr, 3U	4.5	3.9	17.5		139	89	62	279	178	124
30139-7XX	Univ Horiz Cable Mgr, 1U	1.0	3.9	3.9		31	20	14	62	40	28
30330-7XX	Univ Horiz Cable Mgr, 2U, Deep	2.7	5.2	14.0		111	71	50	223	143	99
30331-7XX	Univ Horiz Cable Mgr, 3U, Deep	4.5	5.2	23.4		186	119	83	372	238	166
30339-7XX	Univ Horiz Cable Mgr, 1U, Deep	1.0	5.2	5.2		41	26	18	83	53	37
30529-7XX	DS Univ Horiz Cable Mgr, 1U (Front/Rear)	1.0	3.9	3.9	Front	31	20	14	62	40	28
		0.8	6.8	5.4	Rear	43	28	19	86	55	38
30530-7XX	DS Univ Horiz Cable Mgr, 2U (Front/Rear)	2.7	3.9	10.5	Front	84	53	37	167	107	74
		2.5	6.8	17.0	Rear	135	87	60	271	173	120
30531-7XX	DS Univ Horiz Cable Mgr, 3U (Front/Rear)	4.5	3.9	17.5	Front	139	89	62	279	178	124
		4.3	6.8	29.2	Rear	232	149	103	465	297	207
30540-719	DS Univ Horiz Cable Mgr for Use with CCS and 6" Deep Rack, 2U, 19"W (Front/Rear)	2.7	3.9	10.5	Front	84	53	37	167	107	74
		2.6	9.2	23.9	Rear	190	122	85	380	243	169
3543X-X01	Motive Horizontal Cable Manager, 1U	0.9	6.5	5.5		44	28	19	88	56	39
3543X-X02	Motive Horizontal Cable Manager, 2U	2.6	6.5	17.0		135	87	60	271	173	120
3543X-X03	Motive Horizontal Cable Manager, 3U	4.3	6.5	28.0		223	143	99	446	285	198
3543X-X04	Motive Horizontal Cable Manager, 4U	6.1	6.5	39.6		315	202	140	630	403	280
35441-X01	Evolution Horizontal Cable Manager, 1U	0.9	6.5	5.5		44	28	19	88	56	39
3544X-X02	Evolution Horizontal Cable Manager, 2U	2.6	6.5	17.0		135	87	60	271	173	120
3544X-X03	Evolution Horizontal Cable Manager, 3U	4.3	6.5	28.0		223	143	99	446	285	198
3544X-X04	Evolution Horizontal Cable Manager, 4U	6.1	6.5	39.6		315	202	140	630	403	280
39077-X00	Front-to-Rear Cable Manager	2.5	3.0	7.5		60	38	27	119	76	53
39377-X01	Front-to-Rear Cable Manager	2.5	2.6	6.5		52	33	23	103	66	46
39377-X02	Telescoping Cable Manager, for 1016mm N-Series	6.8	3.3	22.4		179	114	79	357	229	159
<b>Individual Cable Management Loops, Rings, Clips, Guides, and Cable Ties</b>											
02006-2XX	Safe-T-Grip, Open, 6"L	2" Ø	N/A	3.1		25	16	11	49	32	22



Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Fill			Maximum Cable Fill		
		Interior Width (in.)	Interior Depth (in.)	Cable		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
				OD (in.)		0.200	0.250	0.300	0.200	0.250	0.300
				Fill (%)		50%	50%	50%	100%	100%	100%
02009-2XX	Safe-T-Grip, Open, 9"L	3" Ø	N/A	7.0		56	36	25	111	71	50
02012-2XX	Safe-T-Grip, Open, 12"L	4" Ø	N/A	12.5		99	64	44	199	127	88
05006-2XX	Safe-T-Grip, End, 6"L	2" Ø	N/A	3.1		25	16	11	49	32	22
05009-2XX	Safe-T-Grip, End, 9"L	3" Ø	N/A	7.0		56	36	25	111	71	50
05012-2XX	Safe-T-Grip, End, 12"L	4" Ø	N/A	12.5		99	64	44	199	127	88
06006-2XX	Safe-T-Grip, Center, 6"L	2" Ø	N/A	3.1		25	16	11	49	32	22
06009-2XX	Safe-T-Grip, Center, 9"L	3" Ø	N/A	7.0		56	36	25	111	71	50
06012-2XX	Safe-T-Grip, Center, 12"L	4" Ø	N/A	12.5		99	64	44	199	127	88
10419-001	Horiz Cable Guide, 1 Loop (Per Loop)	2.5	3.3	8.2		65	42	29	131	84	58
10683-001	IBM Style Vertical Cable Loop	2.2	3.8	8.3		66	42	29	132	85	59
11125-0XX	Channel-Mounted Distrib Ring, 3"W	2.6	3.0	7.8		62	40	28	124	79	55
11153-001	Horiz Cable Guide, 6 Loop (Per Loop)	2.6	2.0	5.2		41	26	18	83	53	37
11154-001	Horiz Cable Guide, 4 Loop (Per Loop)	2.6	1.5	3.9		31	20	14	62	40	28
11157-001	Horiz Cable Guide, 2 Loop (Per Loop)	2.6	1.9	4.9		39	25	17	78	50	35
11228-X01	Narrow Cable Ring	1.1	3.8	4.1		33	21	15	65	42	29
11230-X01	Narrow Cable Loop	1.1	3.8	4.1		33	21	15	65	42	29
11799-001	Cable Loop for Swing Gate, 6PK	3" Ø	N/A	7.0		56	36	25	111	71	50
12228-X01	Double-Wide Cable Ring	2.6	3.8	9.8		78	50	35	156	100	69
12340-701	Horiz Cable Guide, 4U (Per U)	1.4	3.6	5.0		40	25	18	80	51	35
12341-701	Horiz Cable Guide, 2U (Per U)	1.3	3.6	4.6		37	23	16	73	47	33
12370-00X	Finger Snaps Cable Guides, 6 Loop (Per Loop)	Varies	2.4	3.1		25	16	11	49	32	22
12891-70X	Extended Finger Bracket (Per U)	Varies	5.8	6.6		53	34	23	105	67	47
13079-001	Vertical Wire Mgmt Loop	2.3	3.1	7.1		56	36	25	113	72	50
<b>Wall-Mount Cable Management Rings</b>											
10812-001	Closed Composite Distrib Ring, 3"W	2.8	3.1	8.6		68	44	30	137	88	61
10900-500	Wall Cable Support Bracket, 10"H x 6"D	5.8	5.9	34.2		272	174	121	544	348	242
10910-500	Wall Cable Support Bracket, 8"H x 4"D	3.9	3.9	15.2		121	77	54	242	155	108
10920-500	Wall Cable Support Bracket, 12"H x 4"D	7.5	3.9	29.2		232	149	103	465	297	207
10921-500	Wall Cable Support Bracket, 8"H x 4"D	3.8	3.9	14.8		118	75	52	236	151	105
10941-000	Metal D-Rings, SM	2.1	2.3	4.8		38	24	17	76	49	34
10942-000	Metal D-Rings, MED	3.1	3.3	10.2		81	52	36	162	104	72

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
10943-000	Metal D-Rings, LG	5.1	3.3	16.8		134	86	59	267	171	119
11322-106	J-Hook Ceiling Cable Bracket, 6"H x 3"D	2.0	2.8	5.6		45	29	20	89	57	40
11322-112	J-Hook Ceiling Cable Bracket, 12"H x 3"D	2.0	2.8	5.6		45	29	20	89	57	40
11322-118	J-Hook Ceiling Cable Bracket, 18"H x 3"D	2.0	2.8	5.6		45	29	20	89	57	40
12035-001	Open Composite Distrib Ring, 2"W	2.6	2.0	5.2		41	26	18	83	53	37
12127-001	Closed Composite Distrib Ring, 2"W	1.9	2.1	3.9		31	20	14	62	40	28
<b>Raised Floor Grommets</b>											
13671-00X	Raised Floor Grommet	8.0	4.2	33.2		264	169	117	528	338	235
13874-00X	4" Round Raised Floor Grommet	4.0 Ø	N/A	6.6		53	34	23	105	67	47
<b>Miscellaneous Rack, Cabinet and Cable Management Cable Openings</b>											
46XX-XXX	Universal Rack, Interior of Mounting Channel	0.6	2.5	1.5		12	8	5	24	15	11
48XX-XXX	Universal Rack, Interior of Mounting Channel	0.6	2.5	1.5		12	8	5	24	15	11
55053-XXX	Standard Rack, Interior of Mounting Channel	1.1	2.6	2.8		22	14	10	45	29	20
663XX-XXX	6" Deep Standard Rack, Interior of Mntg Channel	1.0	5.6	5.6		45	29	20	89	57	40
16278-C01	TeraFrame HD, Cable Port, Bottom Panel	3.90	8.80	34.4		274	175	122	547	350	243
CXXXX-XXX	SlimFrame, Cable Port, Top Panel, Each	2.7 Ø	N/A	5.9		47	30	21	94	60	42
FXXX-XXXX-XXX-X	F-Series TeraFrame Gen3, Cable Port, Top Panel, Each	3.9	8.8	34.3		273	175	121	546	350	243
39132-XXX	F-Series TeraFrame Gen 3, Brush Opening, Bottom Panel, Each	3.9	8.8	34.3		273	175	121	546	349	243
39047-XXX	F-Series TeraFrame Gen 3, Brush Opening, 6-slide, Side Panel	3.9	8.8	34.3		273	175	121	546	349	243
39043-XXX	F-Series TeraFrame Gen 3, Brush Opening, 4-slide, Side Panel	3.9	8.8	34.3		273	175	121	546	349	243
GF-XXXX-XX	GF-Series GlobalFrame Gen2, Cable Port, Top Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
39080-XXX	GF-Series GlobalFrame Gen2, Grommet, Bottom Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
39037-XXX	GF-Series GlobalFrame Gen2, Grommet, 6-Slide, Side Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
39033-XXX	GF-Series GlobalFrame Gen2, Grommet, 4-Slide, Side Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
39133-001	Equipment Rail Grommet Kit, Each Grommet	1.7	5.0	8.5		68	43	30	135	87	60
GT-XXXXX	GT-Series GlobalFrame, Top Panel, Large Cable Port, Ea	3.9	8.9	34.7		276	177	123	552	354	246
25190-000	Cable Port Brush Kit for CUBE-iT Wall-Mount Cabinet (each)	8.8	2.0	17.1		136	87	60	272	174	121
25190-001	GF-Series GlobalFrame, Cable Port Brush Kit, (per brush)	3.9	8.8	34.3		273	175	121	546	350	243
NXXX-XXXX-XXX-X	N-Series Gen3, Cable Port, Top Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
NXXJ-XXXX-XXX-X	N-Series Gen 3, 800mm, Opening, Side, 39.4"D, Each	3.1	33.4	103.5		824	527	366	1648	1055	732
NXXK-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 40.4"D, Each	3.1	34.4	106.6		849	543	377	1697	1086	754
NXXL-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 41.3"D, Each	3.1	35.3	109.4		871	557	387	1742	1115	774
NXXM-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 42.3"D, Each	3.1	36.3	112.5		895	573	398	1791	1146	796
NXXN-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 43.3"D, Each	3.1	37.3	115.6		920	589	409	1840	1178	818
NXXP-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 44.3"D, Each	3.1	38.3	118.7		945	605	420	1890	1209	840
NXXR-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 45.3"D, Each	3.1	39.3	121.8		969	620	431	1939	1241	862
NXXT-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 46.3"D, Each	3.1	40.3	124.9		994	636	442	1988	1273	884
NXXU-XXXX-XXX-X	N-Series Gen 3, 800 mm, Opening, Side, 47.2"D, Each	3.1	41.2	127.7		1016	650	452	2033	1301	903
NXXN-XXXX-XXX-X	N-Series Gen 3, 1016mm, Opening, Side, 43.3"D, Each	7.4	37.3	276.0		2196	1406	976	4393	2812	1952
NXXP-XXXX-XXX-X	N-Series Gen 3, 1016mm, Opening, Side, 44.3"D, Each	7.4	38.3	283.4		2255	1443	1002	4511	2887	2005
NXXR-XXXX-XXX-X	N-Series Gen 3, 1016mm, Opening, Side, 45.3"D, Each	7.4	39.3	290.8		2314	1481	1029	4629	2962	2057
NXXT-XXXX-XXX-X	N-Series Gen 3, 1016mm, Opening, Side, 46.3"D, Each	7.4	40.3	298.2		2373	1519	1055	4746	3038	2109
NXXU-XXXX-XXX-X	N-Series Gen 3, 1016mm, Opening, Side, 47.2"D, Each	7.4	41.2	304.9		2426	1553	1078	4852	3105	2157
39410-X01	N-Series Gen3, Cable Port, Bottom Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
3938X-XXX	N-Series Gen3, 800 mm, Cable Port, Air Dam, Each	1.7	5.0	8.5		68	43	30	135	87	60
3938X-XXX	N-Series Gen3, 1016mm, Cable Port, Air Dam, Each	3.5	8.0	28.0		223	143	99	446	285	198
39402-XXX	N-Series Gen3, 800 mm, Cable Port, Air Dam, Each	1.7	5.0	8.5		68	43	30	135	87	60
39402-XXX	N-Series Gen3, 1016mm, Cable Port, Air Dam, Each	3.5	8.0	28.0		223	143	99	446	285	198
FHDX1X-11XB-CX2	F-Series TeraFrame HD, Cable Port, Top Panel, Each	3.90	8.80	34.4		274	175	122	547	350	243
MXXXX-XXX	MegaFrame, Cable Port, Top Panel, Each	3.1	5.3	16.4		131	84	58	261	167	116
Z4-XXX-XXX-XXX	Z4-Series SeismicFrame, Cable Port, Top Panel, Each	3.5	8.0	28.0		223	143	99	446	285	198
Extended Fingers	Cable Opening (Per U)	Varies	5.8	6.6		53	34	23	105	67	47
Standard Fingers	Cable Opening (Per U)	Varies	3.2	3.5		28	18	12	56	36	25
N-Series Fingers	Cable Opening (Per U)	Varies	5.4	6.6		53	34	23	105	67	47
Motive VCM	Cable Opening (Per U)	Varies	5.4	6.6		53	34	23	105	67	47
32697-00X	Cable Opening (Per U) with 1 Tool-less Bend Radius Installed	Varies	5.4	5.8		46	30	21	92	59	41
32697-00X	Cable Opening (Per U) with 2 Tool-less Bend Radius Installed	Varies	5.4	5.2		41	26	18	83	53	37
Evolution VCM	Cable Opening (Per U)	Varies	5.4	6.6		53	34	23	105	67	47
Evolution HCM	Cable Opening (Per U)	Varies	5.4	6.4		51	33	23	102	65	45
Velocity VCM	Cable Opening (Per U)	Varies	5.5	5.9		47	30	21	94	60	42

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
Velocity HCM	Cable Opening (Per U)	Varies	3.2	5.1		41	26	18	81	52	36
<b>Cable Runway Products</b>											
(Maximum fill is equivalent to TIA recommended maximum fill - 6" deep cable at 50% fill. Order accessory cable retaining posts if cable height exceeds the height of the runway.)											
10250-X04	Universal Cbl Runway, 1.5"H x 4"W x 9'-11.5"L	4.0	6.0	24		191	122	85	382	244	170
10250-X06	Universal Cbl Runway, 1.5"H x 6"W x 9'-11.5"L	6.0	6.0	36		286	183	127	573	367	255
10250-X09	Universal Cbl Runway, 1.5"H x 9"W x 9'-11.5"L	9.0	6.0	54		430	275	191	859	550	382
10250-X12	Universal Cbl Runway, 1.5"H x 12"W x 9'-11.5"L	12.0	6.0	72		573	367	255	1146	733	509
10250-X15	Universal Cbl Runway, 1.5"H x 15"W x 9'-11.5"L	15.0	6.0	90		716	458	318	1432	917	637
10250-X18	Universal Cbl Runway, 1.5"H x 18"W x 9'-11.5"L	18.0	6.0	108		859	550	382	1719	1100	764
10250-X24	Universal Cbl Runway, 1.5"H x 24"W x 9'-11.5"L	24.0	6.0	144		1146	733	509	2292	1467	1019
10250-X31	Universal Cbl Runway, 1.5"H x 30"W x 9'-11.5"L	30.0	6.0	180		1432	917	637	2865	1833	1273
10250-X37	Universal Cbl Runway, 1.5"H x 36"W x 9'-11.5"L	36.0	6.0	216		1719	1100	764	3438	2200	1528
14300-X04	Adjustable Cable Runway, 1.5" H x 4" W x 119.5" L (38 mm x 102 mm x 3035 mm)	4.0	6.0	24.0		191	122	85	382	244	170
14300-X06	Adjustable Cable Runway, 1.5" H x 6" W x 119.5" L (38 mm x 152 mm x 3035 mm)	6.0	6.0	36.0		286	183	127	573	367	255
14300-X09	Adjustable Cable Runway, 1.5" H x 9" W x 119.5" L (38 mm x 229 mm x 3035 mm)	9.0	6.0	54.0		430	275	191	859	550	382
14300-X12	Adjustable Cable Runway, 1.5" H x 12" W x 119.5" L (38 mm x 305 mm x 3035 mm)	12.0	6.0	72.0		573	367	255	1146	733	509
14300-X15	Adjustable Cable Runway, 1.5" H x 15" W x 119.5" L (38 mm x 381 mm x 3035 mm)	15.0	6.0	90.0		716	458	318	1432	917	637
14300-X18	Adjustable Cable Runway, 1.5" H x 18" W x 119.5" L (38 mm x 457 mm x 3035 mm)	18.0	6.0	108.0		859	550	382	1719	1100	764
14300-X24	Adjustable Cable Runway, 1.5" H x 24" W x 119.5" L (38 mm x 610 mm x 3035 mm)	24.0	6.0	144.0		1146	733	509	2292	1467	1019
14300-X30	Adjustable Cable Runway, 1.5" H x 30" W x 119.5" L (38 mm x 762 mm x 3035 mm)	30.0	6.0	180.0		1432	917	637	2865	1833	1273
14300-X36	Adjustable Cable Runway, 1.5" H x 36" W x 119.5" L (38 mm x 914 mm x 3035 mm)	36.0	6.0	216.0		1719	1100	764	3438	2200	1528
14304-X04	Tool-less Cross Member Radius Drop, Runway, 4" W (102 mm)	2.0	1.4	2.8		22	14	10	45	29	20

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
14304-X06	Tool-less Cross Member Radius Drop, Runway, 6" W (152 mm)	4.0	1.4	5.6		45	29	20	89	57	40
14304-X09	Tool-less Cross Member Radius Drop, Runway, 9" W (229 mm)	6.2	1.4	8.7		69	44	31	138	89	62
14304-X12	Tool-less Cross Member Radius Drop, Runway, 12" W (305 mm)	9.2	1.4	12.9		103	66	46	205	131	91
14304-X15	Tool-less Cross Member Radius Drop, Runway, 15" W (381 mm)	12.2	1.4	17.1		136	87	60	272	174	121
14304-X18	Tool-less Cross Member Radius Drop, Runway, 18" W (457 mm)	15.2	1.4	21.3		169	108	75	339	217	151
14304-X24	Tool-less Cross Member Radius Drop, Runway, 24" W (610 mm)	21.2	1.4	29.7		236	151	105	473	303	210
14304-X30	Tool-less Cross Member Radius Drop, Runway, 30" W (762 mm)	27.2	1.4	38.1		303	194	135	606	388	270
14304-X36	Tool-less Cross Member Radius Drop, Runway, 36" W (914 mm)	33.2	1.4	46.5		370	237	164	740	474	329
14305-X00	Tool-less Stringer Radius Drop, Runway, Large, 10.5" W (268 mm)	7.8	1.4	11.0		88	56	39	175	112	78
14305-X01	Tool-less Stringer Radius Drop, Runway, Small 5.5" W (140 mm)	3.6	1.4	5.1		41	26	18	81	52	36
10723-X04	Cable Runway Outside Radius Bend, 4"W	4.0	6.0	24		191	122	85	382	244	170
10723-X06	Cable Runway Outside Radius Bend, 6"W	6.0	6.0	36		286	183	127	573	367	255
10723-X08	Cable Runway Outside Radius Bend, 8"W	8.0	6.0	48		382	244	170	764	489	340
10723-X09	Cable Runway Outside Radius Bend, 9"W	9.0	6.0	54		430	275	191	859	550	382
10723-X10	Cable Runway Outside Radius Bend, 10"W	10.0	6.0	60		477	306	212	955	611	424
10723-X12	Cable Runway Outside Radius Bend, 12"W	12.0	6.0	72		573	367	255	1146	733	509
10723-X15	Cable Runway Outside Radius Bend, 15"W	15.0	6.0	90		716	458	318	1432	917	637
10723-X18	Cable Runway Outside Radius Bend, 18"W	18.0	6.0	108		859	550	382	1719	1100	764
10723-X20	Cable Runway Outside Radius Bend, 20"W	20.0	6.0	120		955	611	424	1910	1222	849
10723-X24	Cable Runway Outside Radius Bend, 24"W	24.0	6.0	144		1146	733	509	2292	1467	1019
10723-X31	Cable Runway Outside Radius Bend, 30"W	30.0	6.0	180		1432	917	637	2865	1833	1273
10723-X37	Cable Runway Outside Radius Bend, 36"W	36.0	6.0	216		1719	1100	764	3438	2200	1528
10724-X04	Cable Runway Inside Radius Bend, 4"W	4.0	6.0	24		191	122	85	382	244	170

Updated

Chatsworth Products

CPI-Cable Fill Table

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
10724-X06	Cable Runway Inside Radius Bend, 6"W	6.0	6.0	36		286	183	127	573	367	255
10724-X08	Cable Runway Inside Radius Bend, 8"W	8.0	6.0	48		382	244	170	764	489	340
10724-X09	Cable Runway Inside Radius Bend, 9"W	9.0	6.0	54		430	275	191	859	550	382
10724-X10	Cable Runway Inside Radius Bend, 10"W	10.0	6.0	60		477	306	212	955	611	424
10724-X12	Cable Runway Inside Radius Bend, 12"W	12.0	6.0	72		573	367	255	1146	733	509
10724-X15	Cable Runway Inside Radius Bend, 15"W	15.0	6.0	90		716	458	318	1432	917	637
10724-X18	Cable Runway Inside Radius Bend, 18"W	18.0	6.0	108		859	550	382	1719	1100	764
10724-X20	Cable Runway Inside Radius Bend, 20"W	20.0	6.0	120		955	611	424	1910	1222	849
10724-X24	Cable Runway Inside Radius Bend, 24"W	24.0	6.0	144		1146	733	509	2292	1467	1019
10724-X31	Cable Runway Inside Radius Bend, 30"W	30.0	6.0	180		1432	917	637	2865	1833	1273
10724-X37	Cable Runway Inside Radius Bend, 36"W	36.0	6.0	216		1719	1100	764	3438	2200	1528
10822-X04	Cable Runway E-Bend, 4"W	4.0	6.0	24		191	122	85	382	244	170
10822-X06	Cable Runway E-Bend, 6"W	6.0	6.0	36		286	183	127	573	367	255
10822-X08	Cable Runway E-Bend, 8"W	8.0	6.0	48		382	244	170	764	489	340
10822-X09	Cable Runway E-Bend, 9"W	9.0	6.0	54		430	275	191	859	550	382
10822-X09	Cable Runway E-Bend, 9"W	9.0	6.0	54		430	275	191	859	550	382
10822-X10	Cable Runway E-Bend, 10"W	10.0	6.0	60		477	306	212	955	611	424
10822-X12	Cable Runway E-Bend, 12"W	12.0	6.0	72		573	367	255	1146	733	509
10822-X15	Cable Runway E-Bend, 15"W	15.0	6.0	90		716	458	318	1432	917	637
10822-X18	Cable Runway E-Bend, 18"W	18.0	6.0	108		859	550	382	1719	1100	764
10822-X20	Cable Runway E-Bend, 20"W	20.0	6.0	120		955	611	424	1910	1222	849
10822-X24	Cable Runway E-Bend, 24"W	24.0	6.0	144		1146	733	509	2292	1467	1019
10822-X31	Cable Runway E-Bend, 30"W	30.0	6.0	180		1432	917	637	2865	1833	1273
10822-X37	Cable Runway E-Bend, 36"W	36.0	6.0	216		1719	1100	764	3438	2200	1528
11252-X06	Telco Style Cbl Runway, 1.5"H x 6"W x 8'-8.5"L	6.0	6.0	36		286	183	127	573	367	255
11252-X09	Telco Style Cbl Runway, 1.5"H x 9"W x 8'-8.5"L	9.0	6.0	54		430	275	191	859	550	382
11252-X10	Telco Style Cbl Runway, 1.5"H x 10"W x 8'-8.5"L	10.0	6.0	60		477	306	212	955	611	424
11252-X12	Telco Style Cbl Runway, 1.5"H x 12"W x 8'-8.5"L	12.0	6.0	72		573	367	255	1146	733	509
11252-X13	Telco Style Cbl Runway, 1.5"H x 12"W x 4'-5.5"L	12.0	6.0	72		573	367	255	1146	733	509
11252-X15	Telco Style Cbl Runway, 1.5"H x 15"W x 8'-8.5"L	15.0	6.0	90		716	458	318	1432	917	637
11252-X18	Telco Style Cbl Runway, 1.5"H x 18"W x 8'-8.5"L	18.0	6.0	108		859	550	382	1719	1100	764



Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
11252-X20	Telco Style Cbl Runway, 1.5"H x 20"W x 8'-8.5"L	20.0	6.0	120		955	611	424	1910	1222	849
11275-X06	UL Classified Cbl Rnwy, 1.5"H x 6"W x 8'-8.5"L	6.0	6.0	36		286	183	127	573	367	255
11275-X09	UL Classified Cbl Rnwy, 1.5"H x 9"W x 8'-8.5"L	9.0	6.0	54		430	275	191	859	550	382
11275-X12	UL Classified Cbl Rnwy, 1.5"H x 12"W x 8'-8.5"L	12.0	6.0	72		573	367	255	1146	733	509
11275-X15	UL Classified Cbl Rnwy, 1.5"H x 15"W x 8'-8.5"L	15.0	6.0	90		716	458	318	1432	917	637
11275-X18	UL Classified Cbl Rnwy, 1.5"H x 18"W x 8'-8.5"L	18.0	6.0	108		859	550	382	1719	1100	764
11275-X20	UL Classified Cbl Rnwy, 1.5"H x 20"W x 8'-8.5"L	20.0	6.0	120		955	611	424	1910	1222	849
11275-X24	UL Classified Cbl Rnwy, 1.5"H x 24"W x 8'-8.5"L	24.0	6.0	144		1146	733	509	2292	1467	1019
12100-X06	Cross Member Radius Drop, for 6"W Cbl Rnwy	3.0	1.4	4.2		33	21	15	67	43	30
12100-X09	Cross Member Radius Drop, for 9"W Cbl Rnwy	6.0	1.4	8.4		67	43	30	134	86	59
12100-X12	Cross Member Radius Drop, for 12"W Cbl Rnwy	8.0	1.4	11.2		89	57	40	178	114	79
12100-X18	Cross Member Radius Drop, for 18"W Cbl Rnwy	15.0	1.4	21		167	107	74	334	214	149
12100-X07	Radius Drop, for 9"W Movable Cross Member	4.5	1.4	6.3		50	32	22	100	64	45
12100-X10	Radius Drop, for 12"W Movable Cross Member	7.5	1.4	10.5		84	53	37	167	107	74
12100-X16	Radius Drop, for 18"W Movable Cross Member	12.5	1.4	17.5		139	89	62	279	178	124
12101-X01	Stringer Radius Drop, for Universal Cbl Rnwy	7.3	1.4	10.2		81	52	36	162	104	72
12101-X02	Stringer Radius Drop, for Telco Cbl Rnwy	5.8	1.4	8.1		64	41	29	129	83	57
12101-X03	Stringer Radius Drop, for Cable Runway	3.0	1.4	4.2		33	21	15	67	43	30
12170-X06	Quick Ship Cbl Rnwy Kit, 1.5"H x 6"W x 4'-6"L	6.0	6.0	36		286	183	127	573	367	255
12170-X09	Quick Ship Cbl Rnwy Kit, 1.5"H x 9"W x 4'-6"L	9.0	6.0	54		430	275	191	859	550	382
12170-X12	Quick Ship Cbl Rnwy Kit, 1.5"H x 12"W x 4'-6"L	12.0	6.0	72		573	367	255	1146	733	509
31472-X06	Alt Space Cbl Rnwy, 1.5"H x 6"W x 8'-8.75"L	6.0	6.0	36		286	183	127	573	367	255
31472-X12	Alt Space Cbl Rnwy, 1.5"H x 12"W x 8'-8.75"L	12.0	6.0	72		573	367	255	1146	733	509
31472-X18	Alt Space Cbl Rnwy, 1.5"H x 18"W x 8'-8.75"L	18.0	6.0	108		859	550	382	1719	1100	764
31472-X24	Alt Space Cbl Rnwy, 1.5"H x 24"W x 8'-8.75"L	24.0	6.0	144		1146	733	509	2292	1467	1019
<b>Pemsa® Rejiband® Wire Mesh Cable Tray System</b>											
(Maximum fill is equivalent to TIA recommendations - 50% at tray height. Pemsa Rejiband Cable Tray has 2" or 4" high side walls. Cable should not exceed the height of the tray.)											
602X2100	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 4"W x 10'L	3.5	2.0	6.9		55	35	24	110	70	49
602X2150	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 6"W x 10'L	5.3	2.0	10.5		84	53	37	167	107	74
602X2200	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 8"W x 10'L	7.3	2.0	14.5		115	74	51	231	148	103
602X2300	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 12"W x 10'L	10.9	2.0	21.8		173	111	77	347	222	154

Fill Ratio is the percentage of Usable Area filled by cables including the gaps between cables. Fill for double-sided (DS) cable managers is listed in two rows (Front/Rear).

## Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Fill			Maximum Cable Fill			
		Interior Width (in.)	Interior Depth (in.)	Usable Area (sq. in.)	Cable	Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
					OD (in.)	0.200	0.250	0.300	0.200	0.250	0.300
					Fill (%)	50%	50%	50%	100%	100%	100%
602X2450	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 18"W x 10'L	16.7	2.0	33.3		265	170	118	530	339	236
602X2600	Pemsa Rejiband Wire Mesh Cable Tray, 2"H x 24"W x 10'L	22.5	2.0	45.0		358	229	159	716	458	318
602X3100	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 4"W x 10'L	3.2	3.6	11.6		92	59	41	185	118	82
602X3150	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 6"W x 10'L	5.0	3.6	17.9		142	91	63	285	182	127
602X3200	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 8"W x 10'L	7.0	3.6	25.2		201	128	89	401	257	178
602X3300	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 12"W x 10'L	10.9	3.6	39.2		312	200	139	624	399	277
602X3450	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 18"W x 10'L	16.6	3.6	59.8		476	305	211	952	609	423
602X3600	Pemsa Rejiband Wire Mesh Cable Tray, 4"H x 24"W x 10'L	22.5	3.6	81.0		645	413	286	1289	825	573
<b>Notes:</b>	<p>This table lists estimated cable fill for CPI cable management and pathway products. Cable fill varies with different cable sizes.            Cable fills are estimates based on .20" OD Cat 5e, .25" OD Cat 6, and .30" OD Cat 6a, 4-pair UTP horizontal cable. Cable fill varies with different size cables.            Use the Cat 5e value to estimate fill for 6-strand fiber. Use the Cat 6 value to estimate fill for 12-strand fiber.            Cable Runway/Tray Recommended/Maximum Cable Fills are based on TIA-569 recommendations and 5' (runway)/6' (tray) support spacing.            The (-X00) in part numbers is color or another variable that does not affect cable fill capacities. Refer to the CPI Mini-Catalog for available options.</p>										
To calculate recommended cable fills for other size cables, divide the product's usable area by the area of the cable and multiply by 25% (50% for maximum fill).											
While every effort has been made to ensure the accuracy of all information, CPI does not accept liability for any errors or omissions and reserves the right to change information and descriptions of listed services and products.											
©2019 Chatsworth Products, Inc. All rights reserved. Chatsworth Products, Clik-Nut, CPI, CPI Passive Cooling, eConnect, Evolution, GlobalFrame, MegaFrame, Motive, OnTrac, QuadraRack, RMR, Saf-T-Grip, SeismicFrame, SlimFrame, Secure Array, TeraFrame and Velocity are federally registered trademarks of Chatsworth Products. CUBE-iT, EuroFrame and Simply Efficient are trademarks of Chatsworth Products. Rev. 05/19											

**Using the CPI CABLE FILL TABLE:**

Change the OD (outside diameter) of the cable or the fill ratio on the table to estimate fills for your application. Fill ratio is the percentage of Usable Area within the manager filled with cable including gaps between cables.

**Method of Calculation**

Cable Fill is calculated by dividing the usable area of the cable manager by the area of the cable and reducing by a 50% fill factor to allow for gaps between the cables.

The basic calculation for estimating recommended cable fill for cable managers and cable pathway is:

$$\text{RECOMMENDED CABLE FILL} = ((\text{USABLE AREA}/\text{AREA OF CABLE}) \times 50\%) \times 50\%$$

50% is the fill ratio (25% of the manager is filled with cable. 25% is required space between cables.)

The basic calculation for estimating maximum cable fill for cable managers and cable pathway is:

$$\text{MAXIMUM CABLE FILL} = (\text{USABLE AREA}/\text{AREA OF CABLE}) \times 50\% \times 100\%$$

100% is the fill ratio. (50% of the manager is filled with cable. 50% is required air space between cables.)

**USABLE AREA** is the Usable Area of the cable manager or pathway product.

Usable Area is determined by measuring the internal width and depth of individual cable managers or pathway as illustrated on the following pages.

The CPI Cable Fill table lists usable areas for CPI cable management and pathway products.

The area of a rectangular space is calculated by multiplying the width by the depth. In some cases the width of the manager varies:

$$\text{USABLE AREA} = \text{INTERIOR WIDTH} \times \text{INTERIOR DEPTH}$$

**AREA OF CABLE** is the area of the cable. The table assumes round cables.

The area of the cable is calculated using the dimensions of the cable.

To determine the values in the CPI Cable Fill table, average

cable sizes are used to represent each type of cable:

Cat 5e is .20" diameter cable (.031" area)

Cat 6 is .25" diameter cable (.049" area)

Cat 6a is .30" diameter cable (.070" area)

The area of a round cable is calculated by multiplying PI and the diameter of the cable squared divided by 4:

$$\text{(ROUND) CABLE AREA} = (\text{DIAMETER}^2 \times \text{PI})/4$$

**FILL RATIO** is the percentage of Usable Area within the manager that is filled with cable including required gaps between cables.

**CABLE FILL** is the calculated cable fill value. This value is an estimate and includes gaps between

cables. Use 100% fill ratio to estimate maximum fill. Use 50% fill ratio to estimate initial fill.  
This estimate represents loose cables, not bundled cables. The value will be less for bundled cables.

Sample Cable Fill Calculation:

Calculate cable fill of .30"OD Cat 6a UTP in CPI Cable Manager P/N 11730-703.

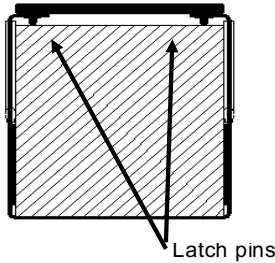
CPI P/N 11730-XXX has a usable area of 21.0 in<sup>2</sup>  
.30" OD Cable has an area of .070 in<sup>2</sup> (Area = [.30]<sup>2</sup> X Pi/4)

RECOMMENDED CABLE FILL = ((USABLE AREA/AREA OF CABLE) X 50%) X 50%  
RECOMMENDED CABLE FILL = (21.0 in<sup>2</sup>/.070 in<sup>2</sup>) X 50% X 50%  
RECOMMENDED CABLE FILL = 75 cables

MAXIMUM CABLE FILL = ((USABLE AREA/AREA OF CABLE) X 50%) X 100%  
MAXIMUM CABLE FILL = (21.0 in<sup>2</sup>/.070 in<sup>2</sup>) X 50% X 100%  
MAXIMUM CABLE FILL = 150 cables

**Usable Area defined for various types of cable managers.**

The hatched areas represent the defined usable area for different types of CPI Cable Managers.



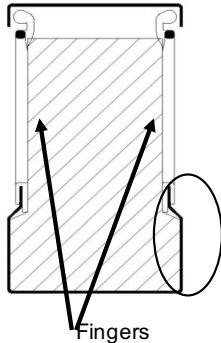
**Vertical Cable Managers & Rings/Loops**

**(no fingers)**

Usable area is defined between the narrowest point in width and the distance between the back of the manager and the back of the latch pins.

Ex. VCS  
Loops  
Rings

Latch pins



**Vertical Cable Managers**

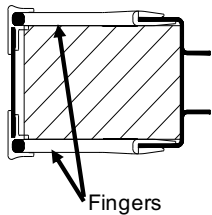
**(with fingers)**

Usable area is defined between the narrowest point in width and the distance between the back of the manager and the back of the T on the fingers.

*Area includes this space.*

Ex. MCS, MCS-EFX,  
CCS, CCS-EFX,  
Velocity Cable Management  
Evolution Cable Management  
M-Series MegaFrame ECM  
F-Series TeraFrame VCM  
GlobalFrame VCM  
Finger Cable Manager  
Motive Cable Management

Fingers



**Universal Horizontal Cable Managers**

**(with fingers)**

Usable area is defined between the narrowest point in height and the distance between the back of the manager and the back of the T on the fingers.

Ex. UHCM  
Velocity Cable Management  
Evolution Cable Management  
Motive Cable Management

Fingers

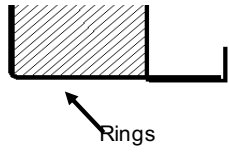


**Horizontal Wire Managers with Rings/Loops**

**(no fingers)**

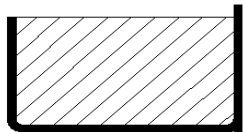
Usable area is defined between

Ex. Horz. Cble Mngr.



the narrowest point in height and the distance between the back of the manager and the front of the rings.



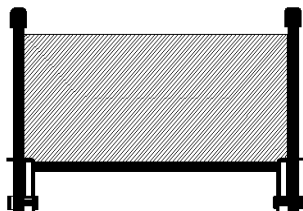


### Jumper Trays

(no fingers)

Usable area is defined between the narrowest point in height and the distance between the back of the manager and the front of the tray.

Ex. Jumper Trays



### Cable Runway (& optional Cable Retaining Posts)

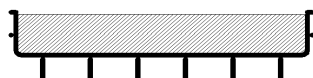
Usable area is defined by the width of the runway and a maximum 6" height.

TIA-569 limits cable height to 6" (152 mm) and cable fill to 50%.

*Cable Runway does **not** have side walls.*

*Add Cable Retaining Post (shown) when required.*

Ex. Universal  
TELCO  
UL Classified  
Alternate Space  
Quick Ship



### Pemsa® Rejiband® Wire Mesh Cable Tray

Usable area is defined by the width of the tray and the height of the tray, with a 6" (152 mm) max. height.

TIA-569 limits cable height to 6" (152 mm) and cable fill to 50%.

*OnTrac Cable Tray has 2", 4" or 6" high (50 mm, 100 mm or 150 mm) side walls.*

Ex. Rejiband