

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 Cable Fill			Maximum Cable Fill		
		Interior Width (in.)	Interior Depth (in.)	Cable OD (in.)		Cat 5e	Cat 6	Cat 6a	Cat 5e	Cat 6	Cat 6a
						0.200	0.250	0.300	0.200	0.250	0.300
						50%	50%	50%	100%	100%	100%
Vertical Cable Managers for Racks											
11374-XXX	SS Wide Vertical Cable Sect, 6"W	5.6	6.0	33.6		270	171	120	541	342	240
11378-X02	Extension, SS Nar Vert Cable Sect, 2'H x 3.65"W	3.5	6.0	21.0		169	107	75	338	214	150
11378-X01	Extension, SS Wide Vert Cable Sect, 2'H x 6"W	5.6	6.0	33.6		270	171	120	541	342	240
11584-X02	Extension, SS Nar Vert Cable Sect, 1'H x 3.65"W	3.5	6.0	21.0		169	107	75	338	214	150
11584-X01	Extension, SS Wide Vert Cable Sect, 1'H x 6"W	5.6	6.0	33.6		270	171	120	541	342	240
11729-XXX	DS Wide Vertical Cable Sect, 6"W (Front/Rear)	5.7	6.0	34.2	Front	275	174	122	551	348	244
		5.7	6.0	34.2	Rear	275	174	122	551	348	244
11730-XXX	SS Narrow Vertical Cable Section, 3.65"W	3.5	6.0	21.0		169	107	75	338	214	150
11781-X02	Extension, DS Nar Vert Cable Sect, 1'H x 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	169	107	75	338	214	150
		3.5	6.0	21.0	Rear	169	107	75	338	214	150
11781-X01	Extension, DS Wide Vert Cable Sect, 1'H x 6"W (Front/Rear)	5.7	6.0	34.2	Front	275	174	122	551	348	244
		5.7	6.0	34.2	Rear	275	174	122	551	348	244
11782-X02	Extension, DS Nar Vert Cable Sect, 2'H x 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	169	107	75	338	214	150
		3.5	6.0	21.0	Rear	169	107	75	338	214	150
11782-X01	Extension, DS Wide Vert Cable Sect, 2'H x 6"W (Front/Rear)	5.7	6.0	34.2	Front	275	174	122	551	348	244
		5.7	6.0	34.2	Rear	275	174	122	551	348	244
12096-XXX	DS Narrow Vertical Cable Sect, 3.65"W (Front/Rear)	3.5	6.0	21.0	Front	169	107	75	338	214	150
		3.5	6.0	21.0	Rear	169	107	75	338	214	150
13901-7XX	Velocity Single-Sided Vertical Cable Manager, 3.6"W x 9.7"D	Varies	7.5	18.5		149	94	66	298	188	132
13902-7XX	Velocity Single-Sided Vertical Cable Manager, 6"W x 9.8"D	Varies	7.5	37.0		298	188	132	596	377	264
13904-7XX	Velocity Single-Sided Vertical Cable Manager, 10"W x 10.3"D	Varies	7.5	67.7		545	345	241	1091	690	483
13905-7XX	Velocity Single-Sided Vertical Cable Manager, 12"W x 10.4"D	Varies	7.5	83.1		670	423	296	1340	847	593
13911-7XX	Velocity Double-Sided Vertical Cable Manager, 3.6"W x 16.4"D	Varies	7.5	18.5	Front	149	94	66	298	188	132
		Varies	5.5	13.7	Rear	110	69	48	220	139	97
13912-7XX	Velocity Double-Sided Vertical Cable Manager, 6"W x 16.6"D	Varies	7.5	37.0	Front	298	188	132	596	377	264
		Varies	5.5	27.2	Rear	219	138	97	438	277	194
13914-7XX	Velocity Double-Sided Vertical Cable Manager, 10"W x 17.5"D	Varies	7.5	67.7	Front	545	345	241	1091	690	483
		Varies	5.5	49.7	Rear	400	253	177	801	507	355
13915-7XX	Velocity Double-Sided Vertical Cable Manager, 12"W x 17.8"D	Varies	7.5	83.1	Front	670	423	296	1340	847	593
		Varies	5.5	60.9	Rear	491	310	217	982	621	435

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
13934-71X	Velocity Cable Ring Kits, 3.6"W	3.4	6.8	23.1		186	117	82	372	235	165
13934-72X	Velocity Cable Ring Kits, 6"W	5.8	6.8	39.4		317	201	140	635	402	281
13934-74X	Velocity Cable Ring Kits, 10"W	9.8	6.8	66.6		537	339	237	1074	679	475
13934-75X	Velocity Cable Ring Kits, 12"W	11.8	6.8	80.2		646	409	286	1293	818	572
30091-XXX	SS MCS Master Cabling Section, 4.4"W	Varies	6.7	24.4		196	124	87	393	248	174
30092-XXX	SS MCS Master Cabling Section, 6"W	Varies	6.7	35.2		283	179	125	567	359	251
30093-XXX	SS MCS Master Cabling Section, 10"W	Varies	6.7	62.3		502	317	222	1004	635	445
30094-XXX	DS MCS Master Cabling Section, 4.4"W (Front/Rear)	Varies	6.7	24.2	Front	195	123	86	390	246	172
		Varies	6.7	24.2	Rear	195	123	86	390	246	172
30095-XXX	DS MCS Master Cabling Section, 6"W (Front/Rear)	Varies	6.7	35.1	Front	283	179	125	566	358	250
		Varies	6.7	35.1	Rear	283	179	125	566	358	250
30096-XXX	DS MCS Master Cabling Section, 10"W (Front/Rear)	Varies	6.7	62.3	Front	502	317	222	1004	635	445
		Varies	6.7	62.3	Rear	502	317	222	1004	635	445
30161-7XX	CCS Combination Cabling Section for 3"D Rack, 3.65"W	3.2	5.2	16.6	Front	133	84	59	267	169	118
		3.2	5.2	16.6	Rear	133	84	59	267	169	118
30162-7XX	CCS Combination Cabling Section for 3"D Rack, 6"W	5.6	5.2	29.1	Front	234	148	103	469	296	207
		5.6	5.2	29.1	Rear	234	148	103	469	296	207
30163-7XX	CCS Combination Cabling Section for 3"D Rack, 10"W	9.6	5.2	49.9	Front	402	254	178	804	509	356
		9.6	5.2	49.9	Rear	402	254	178	804	509	356
30164-7XX	CCS Combination Cabling Section for 6"D Rack, 3.65"W	3.2	6.7	21.4	Front	172	109	76	345	218	152
		3.2	6.0	19.2	Rear	154	97	68	309	195	137
30165-7XX	CCS Combination Cabling Section for 6"D Rack, 6"W	5.6	6.7	37.5	Front	302	191	133	604	382	267
		5.6	6.0	33.6	Rear	270	171	120	541	342	240
30166-7XX	CCS Combination Cabling Section for 6"D Rack, 10"W	9.6	6.7	64.3	Front	518	328	229	1037	656	459
		9.6	6.0	57.6	Rear	464	293	205	929	587	411
35475-701	Evolution Fiber Segregation Kit	2.4	4.0	9.6		77	48	34	154	97	68
35511-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 6"W x 13.2"D	Varies	10.6	49.5		399	252	176	798	505	353
35512-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 8"W x 13.2"D	Varies	10.6	70.6		569	360	252	1138	720	504
35513-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 10"W x 13.2"D	Varies	10.6	91.7		739	467	327	1479	935	655
35514-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 12"W x 13.2"D	Varies	10.6	112.9		910	576	403	1820	1152	806
35515-7XX	Evolution g1 Single-Sided Vertical Cable Manager, 15"W x 13.2"D	Varies	10.6	144.6		1166	737	516	2332	1475	1032

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Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Recommended Cable 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 Ratio	50%	50%	50%	100%	100%	100%
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%	297	188	131	595	376	263
		Varies	10.1	46.1	50%	371	235	164	743	470	329
		Varies	12.6	55.4	60%	446	282	197	893	565	395
35522-7XX	Evolution g2 Double-Sided Vertical Cable Manager, 8"W x 24.5"D, (40%, 50%, 60% of Front/Rear)	Varies	7.5	53.0	40%	427	270	189	854	540	378
		Varies	10.1	66.3	50%	534	338	236	1069	676	473
		Varies	12.6	79.6	60%	641	406	284	1283	812	568
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%	558	353	247	1116	706	494
		Varies	10.1	86.4	50%	696	440	308	1393	881	617
		Varies	12.6	103.7	60%	836	529	370	1672	1058	740
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%	687	435	304	1375	870	609
		Varies	10.1	106.6	50%	859	543	380	1719	1087	761
		Varies	12.6	127.9	60%	1031	652	456	2062	1305	913
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%	882	558	390	1764	1116	781
		Varies	10.1	136.8	50%	1103	697	488	2206	1395	977
		Varies	12.6	164.2	60%	1324	837	586	2648	1675	1172
35571-70X	Evolution g3 Combination Cable Manager, 6"W x 20.2"D	Varies	10.1	49.5	Front	399	252	176	798	505	353
		5.5	5.9	32.4	Rear	261	165	115	522	330	231
35572-70X	Evolution g3 Combination Cable Manager, 8"W x 20.2"D	Varies	10.1	70.6	Front	569	360	252	1138	720	504
		7.5	5.9	44.2	Rear	356	225	157	712	451	315
35573-70X	Evolution g3 Combination Cable Manager, 10"W x 20.2"D	Varies	10.1	91.7	Front	739	467	327	1479	935	655
		9.5	5.9	56.0	Rear	451	285	200	903	571	400
35574-70X	Evolution g3 Combination Cable Manager, 12"W x 20.2"D	Varies	10.1	112.9	Front	910	576	403	1820	1152	806
		11.5	5.9	67.8	Rear	546	345	242	1093	691	484
35575-70X	Evolution g3 Combination Cable Manager, 15"W x 20.2"D	Varies	10.1	144.6	Front	1166	737	516	2332	1475	1032
		14.5	5.9	85.5	Rear	689	436	305	1379	872	610
40092-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 6"W	Varies	9.3	46.1		371	235	164	743	470	329
40093-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 10"W	Varies	9.3	83.4		672	425	297	1345	851	595
40094-XXX	SS MCS-EFX Master Cabling Section With Extended Fingers, 12"W	Varies	9.3	102.0		822	520	364	1645	1040	728
40095-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 6"W	Varies	9.3	46.8	Front	377	238	167	754	477	334
		Varies	9.3	46.8	Rear	377	238	167	754	477	334
40096-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 10"W	Varies	9.3	84.1	Front	678	429	300	1356	858	600
		Varies	9.3	84.1	Rear	678	429	300	1356	858	600

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Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Cable OD (in.) Fill Ratio	Recommended Cable 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
						0.200	0.250	0.300	0.200	0.250	0.300
		50%	50%	50%		100%	100%	100%			
40097-XXX	DS MCS-EFX Master Cabling Section With Extended Fingers, 12"W	Varies	9.3	102.8	Front	829	524	367	1658	1048	734
		Varies	9.3	102.8	Rear	829	524	367	1658	1048	734
40098-7XX	CCS - EFX Combination Cabling Section With Extended Fingers for 3"D Rack, 6"W	5.4	7.8	42.1	Front	339	214	150	679	429	300
		5.6	5.2	29.1	Rear	234	148	103	469	296	207
40099-7XX	CCS - EFX Combination Cabling Section With Extended Fingers for 3"D Rack, 10"W	9.4	7.8	73.3	Front	591	373	261	1182	747	523
		9.6	5.2	49.9	Rear	402	254	178	804	509	356
40100-7XX	CCS - EFX Combination Cabling Section With Extended Fingers for 3"D Rack, 12"W	11.4	7.8	88.9	Front	716	453	317	1433	907	635
		11.6	5.2	60.3	Rear	486	307	215	972	615	430
55100-703	High Density Patching Frame, <u>per side</u> (Front/Rear)	2.3	5.5	12.6	Front	101	64	45	203	128	90
		3.2	11.3	36.1	Rear	291	184	128	582	368	257
57011-703	Velocity Standard Pack with a Single-Sided Vertical Cable Manager, 3.6"W x 9.7"D	Varies	7.5	18.5		149	94	66	298	188	132
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	149	94	66	298	188	132
		Varies	5.5	13.7	Rear	110	69	48	220	139	97
57013-703	Velocity Standard Pack with a Single-Sided Vertical Cable Manager, 6"W x 9.8"D	Varies	7.5	37.0		298	188	132	596	377	264
57014-703	Velocity Standard Pack with a Double-Sided Vertical Cable Manager, 6"W x 16.6"D	Varies	7.5	37.0	Front	298	188	132	596	377	264
		Varies	5.5	27.2	Rear	219	138	97	438	277	194
Vertical Cable Managers for Cabinet Enclosures											
11809-XXX	SlimFrame Vertical Cable Ring Manager	0.9	3.3	2.9		23	14	10	46	29	20
12465-XXX	MegaFrame Vertical Cable Ring Sect	2.3	5.5	12.6		101	64	45	203	128	90
13170-XXX	Enhanced MegaFrame Vertical Cbl Mgr, Wide	3.9	8.3	32.3		260	164	115	520	329	230
13171-XXX	Enhanced MegaFrame Vertical Cbl Mgr, Narrow	2.3	4.8	11.0		88	56	39	177	112	78
13485-XXX	Vertical Cable Manager for Cube-iT PLUS	2.7	4.8	12.9		104	65	46	208	131	92
16272-C02	TeraFrame HD Cable Lashing Bar, 42U	1.5	1 x 1.5" Ø	1.7		13	8	6	27	17	12
16272-C05	TeraFrame HD Cable Lashing Bar, 45U	1.5	1 x 1.5" Ø	1.7		13	8	6	27	17	12
16272-C07	TeraFrame HD Cable Lashing Bar, 47U	1.5	1 x 1.5" Ø	1.7		13	8	6	27	17	12
16273-C02	TeraFrame HD Cable Lashing Bracket, 42U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
16273-C05	TeraFrame HD Cable Lashing Bracket, 45U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
16273-C07	TeraFrame HD Cable Lashing Bracket, 47U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
16275-C02	TeraFrame HD Vertical Cable Ring Manager, 42U	0.9	3.3	2.9		23	14	10	46	29	20
16275-C05	TeraFrame HD Vertical Cable Ring Manager, 45U	0.9	3.3	2.9		23	14	10	46	29	20
16275-C07	TeraFrame HD Vertical Cable Ring Manager, 47U	0.9	3.3	2.9		23	14	10	46	29	20
25102-700	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 42U x 800 mm W cabinets	4.2	8.6	36.1		291	184	128	582	368	257

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Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Cable 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 Ratio		50%	50%	50%	100%	100%	100%
25102-701	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 45U x 800 mm W cabinets	4.2	8.6	36.1		291	184	128	582	368	257
25102-702	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 48U x 800 mm W cabinets	4.2	8.6	36.1		291	184	128	582	368	257
25102-703	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 42U x 800 mm W cabinets	4.2	3.5	14.7		118	75	52	237	150	105
25102-704	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 45U x 800 mm W cabinets	4.2	3.5	14.7		118	75	52	237	150	105
25102-705	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 48U x 800 mm W cabinets	4.2	3.5	14.7		118	75	52	237	150	105
25103-700	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 42U x 750 mm W cabinets	3.2	8.6	27.5		221	140	98	443	280	196
25103-701	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 45U x 750 mm W cabinets	3.2	8.6	27.5		221	140	98	443	280	196
25103-702	GlobalFrame, Cable Ring Manager, with Large Cable Rings, for 48U x 750 mm W cabinets	3.2	8.6	27.5		221	140	98	443	280	196
25103-703	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 42U x 750 mm W cabinets	3.2	3.5	11.2		90	57	40	180	114	80
25103-704	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 45U x 750 mm W cabinets	3.2	3.5	11.2		90	57	40	180	114	80
25103-705	GlobalFrame, Cable Ring Manager, with Medium Cable Rings, for 48U x 750 mm W cabinets	3.2	3.5	11.2		90	57	40	180	114	80
25104-001	GlobalFrame, Cable Ring Kit, for 600 mm W cabinets	1.0	4.4	4.4		35	22	15	70	44	31
25105-001	GlobalFrame, Cable Ring Kit, with Large Cable Rings, for 750 mm W cabinets	3.2	8.6	27.5		221	140	98	443	280	196
25105-002	GlobalFrame, Cable Ring Kit, with Medium Cable Rings, for 750 mm W cabinets	3.2	3.5	11.2		90	57	40	180	114	80
25106-001	GlobalFrame, Cable Ring Kit, with Large Cable Rings, for 800 mm W cabinets	4.2	8.6	36.1		291	184	128	582	368	257
25106-002	GlobalFrame, Cable Ring Kit, with Medium Cable Rings, for 800 mm W cabinets	4.2	3.5	14.7		118	75	52	237	150	105
25107-001	GlobalFrame, Snap-In Grommet Kit, 1 grommet	3.2	5.5	17.6		141	89	62	283	179	125
25108-001	GlobalFrame, Snap-In Grommet & Plug Kit, 1 grommet	3.2	5.5	17.6		141	89	62	283	179	125
25110-700	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 42U x 600 mm W Cabinets	1.0	6.1	6.1		49	31	21	98	62	43

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Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Cable 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 Ratio		50%	50%	50%	100%	100%	100%
25110-701	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 45U x 600 mm W cabinets	1.0	6.1	6.1		49	31	21	98	62	43
25110-702	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 48U x 600 mm W cabinets	1.0	6.1	6.1		49	31	21	98	62	43
25120-703	GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 42U x 750 mm W cabinets	3.8	8.5	32.3		260	164	115	520	329	230
25120-704	GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 45U x 750 mm W cabinets	3.8	8.5	32.3		260	164	115	520	329	230
25120-705	GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 48U x 750 mm W cabinets	3.8	8.5	32.3		260	164	115	520	329	230
25120-706	GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 42U x 800 mm W cabinets	4.8	8.5	40.8		329	208	145	658	416	291
25120-707	GlobalFrame, Vertical Cable Manager, with Extended Fingers, for 45U x 800 mm W cabinets	4.8	8.5	40.8		329	208	145	658	416	291
25120-708	GlobalFrame, Vertical Cable Manager, with Extended Fingers, 48U x 800 mm	4.8	8.5	40.8		329	208	145	658	416	291
25190-001	GlobalFrame, Cable Port Brush Kit, 1 brush kit	3.9	8.8	34.3		276	175	122	553	350	245
25221-701	GlobalFrame, Cable Lashing Bracket Kit, 42U x 125 mm W	5.0	2.0	10.0		80	51	35	161	102	71
25221-702	GlobalFrame, Cable Lashing Bracket Kit, 42U x 250 mm W	10.0	2.0	20.0		161	102	71	322	204	142
25221-703	GlobalFrame, Cable Lashing Bracket Kit, 45U x 125 mm W	5.0	2.0	10.0		80	51	35	161	102	71
25221-704	GlobalFrame, Cable Lashing Bracket Kit, 45U x 250 mm W	10.0	2.0	20.0		161	102	71	322	204	142
25221-705	GlobalFrame, Cable Lashing Bracket Kit, 48U x 125 mm W	5.0	2.0	10.0		80	51	35	161	102	71
25221-706	GlobalFrame, Cable Lashing Bracket Kit, 48U x 250 mm W	10.0	2.0	20.0		161	102	71	322	204	142
25402-700	GlobalFrame GT, Cable Ring Manager, with Large Cable Rings, for 42U x 800 mm cabinet	4.2	8.6	36.1		291	184	128	582	368	257
25402-701	GlobalFrame GT, Cable Ring Manager, with Medium Cable Rings, for 42U x 800 mm cabinet	4.2	3.5	14.7		118	75	52	237	150	105
25403-701	GlobalFrame GT, Cable Lashing Bracket, 42U x 125 mm	5.0	2.0	10.0		80	51	35	161	102	71
25404-703	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 42U x 750 mm W cabinets	3.8	6.1	23.1		186	117	82	372	235	165
25404-704	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 45U x 750 mm W cabinets	3.8	6.1	23.1		186	117	82	372	235	165
25404-705	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 48U x 750 mm W cabinets	3.8	6.1	23.1		186	117	82	372	235	165
25404-706	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 42U x 800 mm W cabinets	4.8	6.1	29.2		235	148	104	470	297	208

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
25404-707	GlobalFrame, Vertical Cable Manager, with Standard Fingers, for 45U x 800 mm W cabinets	4.8	6.1	29.2		235	148	104	470	297	208
25404-708	GlobalFrame, Vertical Cable Manager, with Standard Fingers, 48U x 800 mm	4.8	6.1	29.2		235	148	104	470	297	208
34416-C01	TeraFrame, Vert Cbl Mgr, Standard, 24U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34417-C01	TeraFrame, Vert Cbl Mgr, Standard, 36U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34418-C01	TeraFrame, Vert Cbl Mgr, Standard, 42U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34419-C01	TeraFrame, Vert Cbl Mgr, Standard, 43U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34420-C01	TeraFrame, Vert Cbl Mgr, Standard, 44U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34421-C01	TeraFrame, Vert Cbl Mgr, Standard, 45U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34422-C01	TeraFrame, Vert Cbl Mgr, Standard, 46U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34423-C01	TeraFrame, Vert Cbl Mgr, Standard, 47U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34424-C01	TeraFrame, Vert Cbl Mgr, Standard, 48U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34425-C01	TeraFrame, Vert Cbl Mgr, Standard, 49U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34426-C01	TeraFrame, Vert Cbl Mgr, Standard, 50U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
34427-C01	TeraFrame, Vert Cbl Mgr, Standard, 51U x 600 mm W	Varies	9.3	7.1		57	36	25	114	72	50
35087-C00	TeraFrame Cable Lashing Bracket, 24U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C01	TeraFrame Cable Lashing Bracket, 36U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C02	TeraFrame Cable Lashing Bracket, 42U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C03	TeraFrame Cable Lashing Bracket, 43U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C04	TeraFrame Cable Lashing Bracket, 44U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C05	TeraFrame Cable Lashing Bracket, 45U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C06	TeraFrame Cable Lashing Bracket, 46U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C07	TeraFrame Cable Lashing Bracket, 47U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C08	TeraFrame Cable Lashing Bracket, 48U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C09	TeraFrame Cable Lashing Bracket, 49U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C10	TeraFrame Cable Lashing Bracket, 50U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35087-C11	TeraFrame Cable Lashing Bracket, 51U	5.1	3 x 1.5" Ø	5.1		41	26	18	82	52	36
35090-C00	TeraFrame, Vert Cbl Mgr, Standard, 24U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C01	TeraFrame, Vert Cbl Mgr, Standard, 36U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C02	TeraFrame, Vert Cbl Mgr, Standard, 42U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C03	TeraFrame, Vert Cbl Mgr, Standard, 43U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C04	TeraFrame, Vert Cbl Mgr, Standard, 44U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C05	TeraFrame, Vert Cbl Mgr, Standard, 45U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C06	TeraFrame, Vert Cbl Mgr, Standard, 46U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C07	TeraFrame, Vert Cbl Mgr, Standard, 47U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192

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 OD (in.) Fill Ratio	Recommended Cable 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
						0.200	0.250	0.300	0.200	0.250	0.300
						50%	50%	50%	100%	100%	100%
35090-C08	TeraFrame, Vert Cbl Mgr, Standard, 48U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C09	TeraFrame, Vert Cbl Mgr, Standard, 49U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C10	TeraFrame, Vert Cbl Mgr, Standard, 50U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35090-C11	TeraFrame, Vert Cbl Mgr, Standard, 51U x 700 mm W	Varies	11.0	27.0		217	137	96	435	275	192
35095-C00	TeraFrame, Vert Cbl Mgr, Standard, 24U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C01	TeraFrame, Vert Cbl Mgr, Standard, 36U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C02	TeraFrame, Vert Cbl Mgr, Standard, 42U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C03	TeraFrame, Vert Cbl Mgr, Standard, 43U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C04	TeraFrame, Vert Cbl Mgr, Standard, 44U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C05	TeraFrame, Vert Cbl Mgr, Standard, 45U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C06	TeraFrame, Vert Cbl Mgr, Standard, 46U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C07	TeraFrame, Vert Cbl Mgr, Standard, 47U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C08	TeraFrame, Vert Cbl Mgr, Standard, 48U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C09	TeraFrame, Vert Cbl Mgr, Standard, 49U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C10	TeraFrame, Vert Cbl Mgr, Standard, 50U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35095-C11	TeraFrame, Vert Cbl Mgr, Standard, 51U x 800 mm W	Varies	11.0	46.0		370	234	164	741	469	328
35100-C01	TeraFrame, Vert Cbl Ring Mgr, Small, 36U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C02	TeraFrame, Vert Cbl Ring Mgr, Small, 42U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C03	TeraFrame, Vert Cbl Ring Mgr, Small, 43/44U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C05	TeraFrame, Vert Cbl Ring Mgr, Small, 45/46U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C07	TeraFrame, Vert Cbl Ring Mgr, Small, 47/48U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C09	TeraFrame, Vert Cbl Ring Mgr, Small, 49/50U	0.9	3.3	2.9		23	14	10	46	29	20
35100-C11	TeraFrame, Vert Cbl Ring Mgr, Small, 51U	0.9	3.3	2.9		23	14	10	46	29	20
35101-C01	TeraFrame, Vert Cbl Ring Mgr, Large, 36U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C02	TeraFrame, Vert Cbl Ring Mgr, Large, 42U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C03	TeraFrame, Vert Cbl Ring Mgr, Large, 43/44U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C05	TeraFrame, Vert Cbl Ring Mgr, Large, 45/46U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C07	TeraFrame, Vert Cbl Ring Mgr, Large, 47/48U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C09	TeraFrame, Vert Cbl Ring Mgr, Large, 49/50U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35101-C11	TeraFrame, Vert Cbl Ring Mgr, Large, 51U x 700/800 mm W	2.3	5.5	12.6		101	64	45	203	128	90
35102-C00	TeraFrame, Vert Cbl Mgr, Extended, 24U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C01	TeraFrame, Vert Cbl Mgr, Extended, 36U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C02	TeraFrame, Vert Cbl Mgr, Extended, 42U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C03	TeraFrame, Vert Cbl Mgr, Extended, 43U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C04	TeraFrame, Vert Cbl Mgr, Extended, 44U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C05	TeraFrame, Vert Cbl Mgr, Extended, 45U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
35102-C06	TeraFrame, Vert Cbl Mgr, Extended, 46U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C07	TeraFrame, Vert Cbl Mgr, Extended, 47U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C08	TeraFrame, Vert Cbl Mgr, Extended, 48U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C09	TeraFrame, Vert Cbl Mgr, Extended, 49U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C10	TeraFrame, Vert Cbl Mgr, Extended, 50U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35102-C11	TeraFrame, Vert Cbl Mgr, Extended, 51U x 700 mm W	Varies	13.6	34.0		274	173	121	548	346	242
35103-C00	TeraFrame, Vert Cbl Mgr, Extended, 24U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C01	TeraFrame, Vert Cbl Mgr, Extended, 36U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C02	TeraFrame, Vert Cbl Mgr, Extended, 42U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C03	TeraFrame, Vert Cbl Mgr, Extended, 43U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C04	TeraFrame, Vert Cbl Mgr, Extended, 44U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C05	TeraFrame, Vert Cbl Mgr, Extended, 45U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C06	TeraFrame, Vert Cbl Mgr, Extended, 46U x 800 mm	Varies	13.6	58.0		467	295	207	935	591	414
35103-C07	TeraFrame, Vert Cbl Mgr, Extended, 47U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C08	TeraFrame, Vert Cbl Mgr, Extended, 48U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C09	TeraFrame, Vert Cbl Mgr, Extended, 49U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C10	TeraFrame, Vert Cbl Mgr, Extended, 50U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
35103-C11	TeraFrame, Vert Cbl Mgr, Extended, 51U x 800 mm W	Varies	13.6	58.0		467	295	207	935	591	414
Horizontal Cable Managers for Racks and Cabinet Enclosures											
10365-XXX	Horizontal Cable Tray	2.0	4.7	9.4		75	47	33	151	95	67
11563-X01	Large Horiz Cable Ring, Individual	2.8	6.0	16.8		135	85	60	270	171	120
11564-XXX	Large Horiz Ring Panel, 2U	2.8	6.0	16.8		135	85	60	270	171	120
11752-XXX	Rack Cable Mgr, Small Ring, 1U	1.2	0.9	1.0		8	5	3	16	10	7
11753-XXX	Rack Cable Mgr, Medium Ring, 2U	2.5	1.2	3.0		24	15	10	48	30	21
12183-XXX	Upper Jumper Tray, 2U, 3.5"D	1.9	3.3	6.2		50	31	22	100	63	44
12185-XXX	Lower Jumper Tray, Single, 2U	2.0	3.3	6.6		53	33	23	106	67	47
12186-X01	Transition Plate	1.9	3.3	6.2		50	31	22	100	63	44
12187-XXX	Lower Jumper Tray, Double, 3U	3.8	3.3	12.5		100	63	44	201	127	89
12382-XXX	Rack TopMount Cable Trough, 6"D	2.0	5.8	11.6		93	59	41	187	118	82
12383-XXX	Rack TopMount Cable Trough, 9"D	1.9	8.8	16.7		134	85	59	269	170	119
12541-X19	19" Horiz Wire Mgmt Panel, 1U, w/o Spools	1.4	2.4	3.3		26	16	11	53	33	23
12542-X19	19" Horiz Wire Mgmt Panel, 2U, w/o Spools	3.2	2.4	7.6		61	38	27	122	77	54
13070-X19	19" Horiz Wire Mgmt Panel, 1U	1.4	2.4	3.3		26	16	11	53	33	23
13075-X19	19" Horiz Wire Mgmt Panel, 2U	3.2	2.4	7.6		61	38	27	122	77	54
13168-XXX	Enhanced MegaFrame FTB Cbl Tray, Wide	3.8	2.4	9.1		73	46	32	146	92	65
13169-XXX	Enhanced MegaFrame FTB Cbl Tray, Narrow	1.7	2.4	4.0		32	20	14	64	40	28

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
13183-XXX	Upper Jumper Tray, 2U, 6"D	2.9	5.8	16.8		135	85	60	270	171	120
13517-701	Rack-Mount Cable Shelf (sum of 3 openings)	0.7	11.4	8.0		64	40	28	129	81	57
13930-701	Velocity SS Horizontal Cable Manager, 1U	Varies	3.2	2.9		23	14	10	46	29	20
13930-702	Velocity SS Horizontal Cable Manager, 2U	Varies	3.2	9.7		78	49	34	156	98	69
13930-703	Velocity SS Horizontal Cable Manager, 3U	Varies	3.2	16.5		133	84	58	266	168	117
30130-7XX	Univ Horiz Cable Mgr, 2U	2.7	3.9	10.5		84	53	37	169	107	75
30131-7XX	Univ Horiz Cable Mgr, 3U	4.5	3.9	17.5		141	89	62	282	178	125
30139-7XX	Univ Horiz Cable Mgr, 1U	1.0	3.9	3.9		31	19	13	62	39	27
30330-7XX	Univ Horiz Cable Mgr, 2U, Deep	2.7	5.2	14.0		112	71	50	225	142	100
30331-7XX	Univ Horiz Cable Mgr, 3U, Deep	4.5	5.2	23.4		188	119	83	377	238	167
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	19	13	62	39	27
		0.8	6.8	5.4	Rear	43	27	19	87	55	38
30530-7XX	DS Univ Horiz Cable Mgr, 2U (Front/Rear)	2.7	3.9	10.5	Front	84	53	37	169	107	75
		2.5	6.8	17.0	Rear	137	86	60	274	173	121
30531-7XX	DS Univ Horiz Cable Mgr, 3U (Front/Rear)	4.5	3.9	17.5	Front	141	89	62	282	178	125
		4.3	6.8	29.2	Rear	235	148	104	470	297	208
30540-719	DS Univ Horiz Cable Mgr for Use with CCS and 6" Deep Rack, 2U, 19"W	2.7	3.9	10.5	Front	84	53	37	169	107	75
		2.6	9.2	23.9	Rear	192	121	85	385	243	170
35106-C0X	TeraFrame, FTB Cable Mgr, 700mm	2.0	2.3	4.6		37	23	16	74	46	32
35108-C0X	TeraFrame, FTB Cable Mgr, 800mm	3.7	3.8	14.0		112	71	50	225	142	100
35441-701	Evolution SS Horizontal Cable Manager, 1U	0.9	6.5	5.5		44	28	19	88	56	39
35441-702	Evolution SS Horizontal Cable Manager, 2U	2.6	6.5	17.0		137	86	60	274	173	121
35441-703	Evolution SS Horizontal Cable Manager, 3U	4.3	6.5	28.0		225	142	100	451	285	200
Individual Cable Management Loops, Rings, Clips, Guides, and Cable Ties											
02006-2XX	Safe-T-Grip, Open, 6"L	2" Ø	N/A	3.1		25	15	11	50	31	22
02009-2XX	Safe-T-Grip, Open, 9"L	3" Ø	N/A	7.0		56	35	25	112	71	50
02012-2XX	Safe-T-Grip, Open, 12"L	4" Ø	N/A	12.5		100	63	44	201	127	89
05006-2XX	Safe-T-Grip, End, 6"L	2" Ø	N/A	3.1		25	15	11	50	31	22
05009-2XX	Safe-T-Grip, End, 9"L	3" Ø	N/A	7.0		56	35	25	112	71	50
05012-2XX	Safe-T-Grip, End, 12"L	4" Ø	N/A	12.5		100	63	44	201	127	89
06006-2XX	Safe-T-Grip, Center, 6"L	2" Ø	N/A	3.1		25	15	11	50	31	22
06009-2XX	Safe-T-Grip, Center, 9"L	3" Ø	N/A	7.0		56	35	25	112	71	50
06012-2XX	Safe-T-Grip, Center, 12"L	4" Ø	N/A	12.5		100	63	44	201	127	89
10419-001	Horiz Cable Guide, 1 Loop (Per Loop)	2.5	3.3	8.2		66	41	29	132	83	58
10683-001	IBM Style Vertical Cable Loop	2.2	3.8	8.3		66	42	29	133	84	59

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
11125-0XX	Channel-Mounted Distrib Ring, 3"W	2.6	3.0	7.8		62	39	27	125	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	19	13	62	39	27
11157-001	Horiz Cable Guide, 2 Loop (Per Loop)	2.6	1.9	4.9		39	25	17	79	50	35
11225-001	Channel Cable Clip, Universal Rack	0.6	2.3	1.3		10	6	4	20	13	9
11225-002	Channel Cable Clip, Standard Rack	1.1	2.4	2.6		20	13	9	41	26	18
11228-X01	Narrow Cable Ring	1.1	3.8	4.1		33	20	14	66	41	29
11230-X01	Narrow Cable Loop	1.1	3.8	4.1		33	20	14	66	41	29
11799-001	Cable Loop for Swing Gate, 6PK	3" Ø	N/A	7.0		56	35	25	112	71	50
12210-X01	Channel Cable Clip, 6"D Standard Rack	1.0	5.4	5.4		43	27	19	87	55	38
12228-X01	Double-Wide Cable Ring	2.6	3.8	9.8		79	50	35	158	100	70
12340-701	Horiz Cable Guide, 4U (Per U)	1.4	3.6	5.0		40	25	17	80	51	35
12341-701	Horiz Cable Guide, 2U (Per U)	1.3	3.6	4.6		37	23	16	74	46	32
12370-00X	Finger Snaps™ Cable Guides, 6 Loop (Per Loop)	Varies	2.4	3.1		25	15	11	50	31	22
12891-70X	Extended Finger Bracket (Per U)	Varies	5.8	6.6		53	33	23	106	67	47
13079-001	Vertical Wire Mgmt Loop	2.3	3.1	7.1		57	36	25	114	72	50
Wall-Mount Cable Management Rings											
10812-001	Closed Composite Distrib Ring, 3"W	2.8	3.1	8.6		69	43	30	138	87	61
10900-500	Wall Cable Support Bracket, 10"H x 6"D	5.8	5.9	34.2		275	174	122	551	348	244
10910-500	Wall Cable Support Bracket, 8"H x 4"D	3.9	3.9	15.2		122	77	54	245	155	108
10920-500	Wall Cable Support Bracket, 12"H x 4"D	7.5	3.9	29.2		235	148	104	470	297	208
10921-500	Wall Cable Support Bracket, 8"H x 4"D	3.8	3.9	14.8		119	75	52	238	151	105
10941-000	Metal D-Rings, SM	2.1	2.3	4.8		38	24	17	77	48	34
10942-000	Metal D-Rings, MED	3.1	3.3	10.2		82	52	36	164	104	72
10943-000	Metal D-Rings, LG	5.1	3.3	16.8		135	85	60	270	171	120
11322-106	J-Hook Ceiling Cable Bracket, 6"H x 3"D	2.0	2.8	5.6		45	28	20	90	57	40
11322-112	J-Hook Ceiling Cable Bracket, 12"H x 3"D	2.0	2.8	5.6		45	28	20	90	57	40
11322-118	J-Hook Ceiling Cable Bracket, 18"H x 3"D	2.0	2.8	5.6		45	28	20	90	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	19	13	62	39	27
KoldLok Raised Floor Grommets											
13571-00X	Integral Raised Floor Grommet	8.0	4.0	32.0		258	163	114	516	326	228
13576-00X	Surface-Mount Raised Floor Grommet	8.2	4.0	32.8		264	167	117	529	334	234
13671-00X	Split Integral Raised Floor Grommet	8.0	4.0	32.0		258	163	114	516	326	228
13674-00X	Extended Grommet, 3" Brush	22.0	2.5	55.0		443	280	196	887	561	392

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
13675-00X	Extended Grommet, 6" Brush	22.0	5.5	121.0		975	617	432	1951	1234	864
13676-00X	Large Surface-Mount Raised Floor Grommet	8.2	4.0	32.8		264	167	117	529	334	234
13677-00X	X-Large Surface-Mount Raised Floor Grommet	8.2	4.0	32.8		264	167	117	529	334	234
13870-00X	Wave Split Integral Grommet	7.7	5.8	45.5		366	232	162	733	464	325
13872-00X	Mini Raised Floor Grommet	5.0	2.5	12.5		100	63	44	201	127	89
Miscellaneous Rack, Cabinet and Cable Management Cable Openings											
46XXX-XXX	Universal Rack, Interior of Mounting Channel	0.6	2.5	1.5		12	7	5	24	15	10
48XXX-XXX	Universal Rack, Interior of Mounting Channel	0.6	2.5	1.5		12	7	5	24	15	10
55053-XXX	Standard Rack, Interior of Mounting Channel	1.1	2.6	2.8		22	14	10	45	28	20
663XX-XXX	6" Deep Standard Rack, Interior of Mntg Channel	1.0	5.6	5.6		45	28	20	90	57	40
16278-C01	TeraFrame HD, Cable Port, Bottom Panel	3.0	11.5	34.5		278	176	123	556	352	246
CXXX-XXX	SlimFrame, Cable Port, Top Panel, Each	2.7 Ø	N/A	5.9		47	30	21	95	60	42
GF-XXXX	GlobalFrame, Top Panel, Round Cable Port, Ea.	2.7 Ø	N/A	5.9		47	30	21	95	60	42
GF-XXXX	GlobalFrame, Top Panel, Large Cable Port, Each	3.9	8.8	34.3		276	175	122	553	350	245
GT-XXXX	GlobalFrame, Top Panel, Large Cable Port, Each	3.9	8.9	34.7		279	177	123	559	354	247
25037-7xx	GlobalFrame, Brush Side Panel, Cable Port, Ea.	3.9	8.8	34.3		276	175	122	553	350	245
25130-7xx	GlobalFrame, Bottom Panel, Cable Port, Each	8.8	3.9	34.3		276	175	122	553	350	245
25190-001	GlobalFrame, Cable Port Brush Kit, 1 brush kit	3.9	8.8	34.3		276	175	122	553	350	245
FXXX-XXXX-XXX	TeraFrame, Cable Port, Top Panel, Each	2.7 Ø	N/A	5.9		47	30	21	95	60	42
FXXX-XXXX-XXX	TeraFrame, Brush Opening, Top Panel, Each	3.0	11.5	34.5		278	176	123	556	352	246
FHDX1X-11XB-CX2	TeraFrame HD, Cable Port, Top Panel, Each	3.0	11.5	34.5		278	176	123	556	352	246
35021-000	Cable Port Grommet Kit, for F-Series & GlobalFrame	2.7 Ø	N/A	5.9		47	30	21	95	60	42
35085-XXX	TeraFrame, Brush Opening, Bottom Panel	3.0	11.5	34.5		278	176	123	556	352	246
NXXX-XXXX-XXX	N-Series, Cable Port, Center Top Panel, Each	2.7 Ø	N/A	5.9		47	30	21	95	60	42
NXXX-XXXX-XXX	N-Series, Cable Knockout, Front Top Panel, Each	3.1	5.3	16.4		132	83	58	264	167	117
NX5X-XXXX-XXX	N-Series, Nx5, Cable Port, Center Top Panel, Each	2.7 Ø	N/A	5.9		47	30	21	95	60	42
NX5X-XXXX-XXX	N-Series, Nx5, Cable Knockout, Front Top Panel, Each	3.1	5.3	16.4		132	83	58	264	167	117
NX5X-XXXX-XXX	N-Series, Nx5, Brush Opening, Side, 49.1"D, Each	7.5	38.7	290.2		2340	1480	1036	4680	2961	2072
NX5X-XXXX-XXX	N-Series, Nx5, Brush Opening, Side, 50.1"D, Each	7.5	39.7	297.7		2400	1518	1063	4801	3037	2126
NX5X-XXXX-XXX	N-Series, Nx5, Brush Opening, Side, 51.1"D, Each	7.5	40.7	305.2		2461	1557	1090	4922	3114	2180
MXXX-XXX	MegaFrame, Cable Port, Top Panel, Each	3.1	5.3	16.4		132	83	58	264	167	117
Varies	Cube-It PLUS, Knockout, Rear Panel, Each	2.7 Ø	N/A	5.9		47	30	21	95	60	42
Extended Fingers	Cable Opening (Per U)	Varies	5.8	6.6		53	33	23	106	67	47

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
Standard Fingers	Cable Opening (Per U)	Varies	3.2	3.5		28	17	12	56	35	25
N-Series Fingers	Cable Opening (Per U)	Varies	5.4	6.6		53	33	23	106	67	47
Evolution VCM	Cable Opening (Per U)	Varies	5.4	6.6		53	33	23	106	67	47
Evolution HCM	Cable Opening (Per U)	Varies	5.4	6.4		51	32	22	103	65	45
Velocity VCM	Cable Opening (Per U)	Varies	5.5	5.9		47	30	21	95	60	42
Velocity HCM	Cable Opening (Per U)	Varies	3.2	5.1		41	26	18	82	52	36
Cable Runway Products											
(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, 4"W x 1.5"H x 9'-11.5"L	4.0	6.0	24		193	122	85	387	244	171
10250-X06	Universal Cbl Runway, 6"W x 1.5"H x 9'-11.5"L	6.0	6.0	36		290	183	128	580	367	257
10250-X09	Universal Cbl Runway, 9"W x 1.5"H x 9'-11.5"L	9.0	6.0	54		435	275	192	870	551	385
10250-X12	Universal Cbl Runway, 12"W x 1.5"H x 9'-11.5"L	12.0	6.0	72		580	367	257	1161	734	514
10250-X15	Universal Cbl Runway, 15"W x 1.5"H x 9'-11.5"L	15.0	6.0	90		725	459	321	1451	918	642
10250-X18	Universal Cbl Runway, 18"W x 1.5"H x 9'-11.5"L	18.0	6.0	108		870	551	385	1741	1102	771
10250-X24	Universal Cbl Runway, 24"W x 1.5"H x 9'-11.5"L	24.0	6.0	144		1161	734	514	2322	1469	1028
10692-X09	Trough Cable Runway, 9"W x 8"H x 9'-11.5"L	7.5	6.0	45		362	229	160	725	459	321
10692-X10	Trough Cable Runway, 10"W x 8"H x 9'-11.5"L	8.5	6.0	51		411	260	182	822	520	364
10692-X12	Trough Cable Runway, 12"W x 8"H x 9'-11.5"L	10.5	6.0	63		508	321	225	1016	642	450
10692-X15	Trough Cable Runway, 15"W x 8"H x 9'-11.5"L	13.5	6.0	81		653	413	289	1306	826	578
10692-X18	Trough Cable Runway, 18"W x 8"H x 9'-11.5"L	16.5	6.0	99		798	505	353	1596	1010	707
10693-X09	Trough Cable Runway, 9"W x 8"H x 9'-8.5"L	7.5	6.0	45		362	229	160	725	459	321
10693-X10	Trough Cable Runway, 10"W x 8"H x 9'-8.5"L	8.5	6.0	51		411	260	182	822	520	364
10693-X12	Trough Cable Runway, 12"W x 8"H x 9'-8.5"L	10.5	6.0	63		508	321	225	1016	642	450
10693-X15	Trough Cable Runway, 15"W x 8"H x 9'-8.5"L	13.5	6.0	81		653	413	289	1306	826	578
10693-X18	Trough Cable Runway, 18"W x 8"H x 9'-8.5"L	16.5	6.0	99		798	505	353	1596	1010	707
10723-X06	Cable Runway Outside Radius Bend, 6"W	6.0	6.0	36		290	183	128	580	367	257
10723-X09	Cable Runway Outside Radius Bend, 9"W	9.0	6.0	54		435	275	192	870	551	385
10723-X12	Cable Runway Outside Radius Bend, 12"W	12.0	6.0	72		580	367	257	1161	734	514
10723-X15	Cable Runway Outside Radius Bend, 15"W	15.0	6.0	90		725	459	321	1451	918	642
10723-X18	Cable Runway Outside Radius Bend, 18"W	18.0	6.0	108		870	551	385	1741	1102	771
10723-X20	Cable Runway Outside Radius Bend, 20"W	20.0	6.0	120		967	612	428	1935	1224	857
10723-X24	Cable Runway Outside Radius Bend, 24"W	24.0	6.0	144		1161	734	514	2322	1469	1028
10724-X06	Cable Runway Inside Radius Bend, 6"W	6.0	6.0	36		290	183	128	580	367	257
10724-X09	Cable Runway Inside Radius Bend, 9"W	9.0	6.0	54		435	275	192	870	551	385
10724-X12	Cable Runway Inside Radius Bend, 12"W	12.0	6.0	72		580	367	257	1161	734	514

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 Cable 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 Ratio		50%	50%	50%	100%	100%	100%
10724-X15	Cable Runway Inside Radius Bend, 15"W	15.0	6.0	90		725	459	321	1451	918	642
10724-X18	Cable Runway Inside Radius Bend, 18"W	18.0	6.0	108		870	551	385	1741	1102	771
10724-X20	Cable Runway Inside Radius Bend, 20"W	20.0	6.0	120		967	612	428	1935	1224	857
10724-X24	Cable Runway Inside Radius Bend, 24"W	24.0	6.0	144		1161	734	514	2322	1469	1028
10822-X09	Cable Runway E-Bend, 9"W	9.0	6.0	54		435	275	192	870	551	385
10822-X12	Cable Runway E-Bend, 12"W	12.0	6.0	72		580	367	257	1161	734	514
10822-X18	Cable Runway E-Bend, 18"W	18.0	6.0	108		870	551	385	1741	1102	771
11252-X06	Telco Style Cbl Runway, 6"W x 1.5"H x 8'-8.5"L	6.0	6.0	36		290	183	128	580	367	257
11252-X09	Telco Style Cbl Runway, 9"W x 1.5"H x 8'-8.5"L	9.0	6.0	54		435	275	192	870	551	385
11252-X10	Telco Style Cbl Runway, 10"W x 1.5"H x 8'-8.5"L	10.0	6.0	60		483	306	214	967	612	428
11252-X12	Telco Style Cbl Runway, 12"W x 1.5"H x 8'-8.5"L	12.0	6.0	72		580	367	257	1161	734	514
11252-X13	Telco Style Cbl Runway, 12"W x 1.5"H x 4'-5.5"L	12.0	6.0	72		580	367	257	1161	734	514
11252-X15	Telco Style Cbl Runway, 15"W x 1.5"H x 8'-8.5"L	15.0	6.0	90		725	459	321	1451	918	642
11252-X18	Telco Style Cbl Runway, 18"W x 1.5"H x 8'-8.5"L	18.0	6.0	108		870	551	385	1741	1102	771
11252-X20	Telco Style Cbl Runway, 20"W x 1.5"H x 8'-8.5"L	20.0	6.0	120		967	612	428	1935	1224	857
11275-X06	UL Classified Cbl Rnwy, 6"W x 1.5"H x 8'-8.5"L	6.0	6.0	36		290	183	128	580	367	257
11275-X09	UL Classified Cbl Rnwy, 9"W x 1.5"H x 8'-8.5"L	9.0	6.0	54		435	275	192	870	551	385
11275-X12	UL Classified Cbl Rnwy, 12"W x 1.5"H x 8'-8.5"L	12.0	6.0	72		580	367	257	1161	734	514
11275-X15	UL Classified Cbl Rnwy, 15"W x 1.5"H x 8'-8.5"L	15.0	6.0	90		725	459	321	1451	918	642
11275-X18	UL Classified Cbl Rnwy, 18"W x 1.5"H x 8'-8.5"L	18.0	6.0	108		870	551	385	1741	1102	771
11275-X20	UL Classified Cbl Rnwy, 20"W x 1.5"H x 8'-8.5"L	20.0	6.0	120		967	612	428	1935	1224	857
11275-X24	UL Classified Cbl Rnwy, 24"W x 1.5"H x 8'-8.5"L	24.0	6.0	144		1161	734	514	2322	1469	1028
12100-X06	Cross Member Radius Drop, for 6"W Cbl Rnwy	3.0	1.4	4.2		33	21	15	67	42	30
12100-X09	Cross Member Radius Drop, for 9"W Cbl Rnwy	6.0	1.4	8.4		67	42	30	135	85	60
12100-X12	Cross Member Radius Drop, for 12"W Cbl Rnwy	8.0	1.4	11.2		90	57	40	180	114	80
12100-X18	Cross Member Radius Drop, for 18"W Cbl Rnwy	15.0	1.4	21		169	107	75	338	214	150
12100-X07	Radius Drop, for 9"W Movable Cross Member	4.5	1.4	6.3		50	32	22	101	64	45
12100-X10	Radius Drop, for 12"W Movable Cross Member	7.5	1.4	10.5		84	53	37	169	107	75
12100-X16	Radius Drop, for 18"W Movable Cross Member	12.5	1.4	17.5		141	89	62	282	178	125
12101-X01	Stringer Radius Drop, for Universal Cbl Runway	7.3	1.4	10.2		82	52	36	164	104	72
12101-X02	Stringer Radius Drop, for Telco Cbl Rnwy	5.8	1.4	8.1		65	41	28	130	82	57
12101-X03	Stringer Radius Drop, for Cable Runway	3.0	1.4	4.2		33	21	15	67	42	30
12170-X06	Quick Ship Cbl Rnwy Kit, 6"W x 1.5"H x 4'-6"L	6.0	6.0	36		290	183	128	580	367	257
12170-X09	Quick Ship Cbl Rnwy Kit, 9"W x 1.5"H x 4'-6"L	9.0	6.0	54		435	275	192	870	551	385
12170-X12	Quick Ship Cbl Rnwy Kit, 12"W x 1.5"H x 4'-6"L	12.0	6.0	72		580	367	257	1161	734	514
31472-X06	Alt Space Cbl Rnwy, 6"W x 1.5"H x 8'-8.75"L	6.0	6.0	36		290	183	128	580	367	257

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Estimated Cable Fill Capacities for CPI Cable Management and Pathway Products

Part Number	Description	Cable Manager Specs.			Usable Area (sq. in.)	Recommended Cable 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 Ratio		50%	50%	50%	100%	100%	100%
31472-X12	Alt Space Cbl Rnwly, 12"W x 1.5"H x 8'-8.75"L	12.0	6.0	72		580	367	257	1161	734	514
31472-X18	Alt Space Cbl Rnwly, 18"W x 1.5"H x 8'-8.75"L	18.0	6.0	108		870	551	385	1741	1102	771
31472-X24	Alt Space Cbl Rnwly, 24"W x 1.5"H x 8'-8.75"L	24.0	6.0	144		1161	734	514	2322	1469	1028
OnTrac® Wire Mesh Cable Tray Products											
(Maximum fill is equivalent to TIA recommendations - 50% at tray height. OnTrac Cable Tray has 2", 4" or 6" high side walls. Cable should not exceed the height of the tray.)											
34811-X04	OnTrac Cable Tray, 4"W x 2"H x 10'L	3.9	2.0	8.0		64	40	28	129	81	57
34811-X06	OnTrac Cable Tray, 6"W x 2"H x 10'L	5.8	2.0	12.1		97	61	43	195	123	86
34811-X08	OnTrac Cable Tray, 8"W x 2"H x 10'L	7.8	2.0	16.2		130	82	57	261	165	115
34811-X12	OnTrac Cable Tray, 12"W x 2"H x 10'L	11.7	2.0	24.3		195	123	86	391	247	173
34811-X16	OnTrac Cable Tray, 16"W x 2"H x 10'L	15.7	2.0	32.5		262	165	116	524	331	232
34811-X18	OnTrac Cable Tray, 18"W x 2"H x 10'L	17.6	2.0	36.6		295	186	130	590	373	261
34811-X20	OnTrac Cable Tray, 20"W x 2"H x 10'L	19.6	2.0	40.6		327	207	145	654	414	290
34811-X24	OnTrac Cable Tray, 24"W x 2"H x 10'L	23.5	2.0	48.8		393	248	174	787	497	348
34821-X04	OnTrac Cable Tray, 4"W x 4"H x 10'L	3.9	4.0	15.7		126	80	56	253	160	112
34821-X06	OnTrac Cable Tray, 6"W x 4"H x 10'L	5.8	4.0	23.7		191	120	84	382	241	169
34821-X08	OnTrac Cable Tray, 8"W x 4"H x 10'L	7.8	4.0	31.6		254	161	112	509	322	225
34821-X12	OnTrac Cable Tray, 12"W x 4"H x 10'L	11.7	4.0	47.5		383	242	169	766	484	339
34821-X16	OnTrac Cable Tray, 16"W x 4"H x 10'L	15.7	4.0	63.5		512	323	226	1024	647	453
34821-X18	OnTrac Cable Tray, 18"W x 4"H x 10'L	17.6	4.0	71.4		575	364	255	1151	728	510
34821-X20	OnTrac Cable Tray, 20"W x 4"H x 10'L	19.6	4.0	79.4		640	405	283	1280	810	567
34821-X24	OnTrac Cable Tray, 24"W x 4"H x 10'L	23.5	4.0	95.3		768	486	340	1537	972	680
34831-X08	OnTrac Cable Tray, 8"W x 6"H x 10'L	7.8	6.0	47.0		379	239	167	758	479	335
34831-X12	OnTrac Cable Tray, 12"W x 6"H x 10'L	11.7	6.0	70.6		569	360	252	1138	720	504
34831-X16	OnTrac Cable Tray, 16"W x 6"H x 10'L	15.7	6.0	94.3		760	481	336	1520	962	673
34831-X18	OnTrac Cable Tray, 18"W x 6"H x 10'L	17.6	6.0	106.1		855	541	378	1711	1082	757
34831-X20	OnTrac Cable Tray, 20"W x 6"H x 10'L	19.6	6.0	117.9		950	601	421	1901	1203	842
34831-X24	OnTrac Cable Tray, 24"W x 6"H x 10'L	23.5	6.0	141.5		1141	721	505	2282	1443	1010
Notes:	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' support spacing. The X in part numbers is color or another variable that does not affect cable fill capacities. Refer to the CPI Mini-Catalog for available options.										

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.

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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 radius of the cable squared:

$$\text{(ROUND) CABLE AREA} = \text{PI} \times \text{RADIUS}^2$$

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.

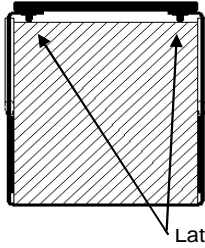
CPI P/N 11730-XXX has a usable area of 21.0 in²
.30" OD Cable has an area of .070 in² (Area = Pi X [.15]²)

$$\begin{aligned} \text{RECOMMENDED CABLE FILL} &= ((\text{USABLE AREA}/\text{AREA OF CABLE}) \times 50\%) \times 50\% \\ \text{RECOMMENDED CABLE FILL} &= (21.0 \text{ in}^2 / .070 \text{ in}^2) \times 50\% \times 50\% \\ \text{RECOMMENDED CABLE FILL} &= 75 \text{ cables} \end{aligned}$$

$$\begin{aligned} \text{MAXIMUM CABLE FILL} &= ((\text{USABLE AREA}/\text{AREA OF CABLE}) \times 50\%) \times 100\% \\ \text{MAXIMUM CABLE FILL} &= (21.0 \text{ in}^2 / .070 \text{ in}^2) \times 50\% \times 100\% \\ \text{MAXIMUM CABLE FILL} &= 150 \text{ cables} \end{aligned}$$

Usable Area defined for various types of cable managers.

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

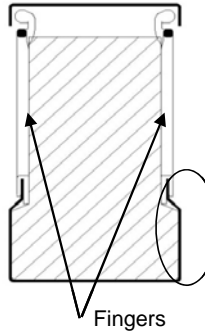


Vertical Cable Managers & Rings/Loops

(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



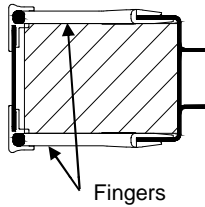
Vertical Cable Managers

(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

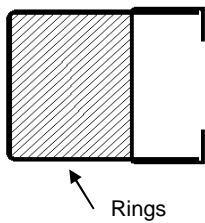


Universal Horizontal Cable Managers

(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

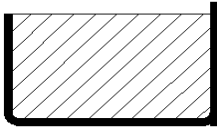


Horizontal Wire Managers with Rings/Loops

(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 rings.

Ex. Horz. Cble Mngr.

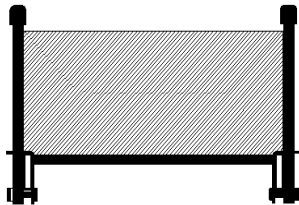


Jumper Trays

(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)

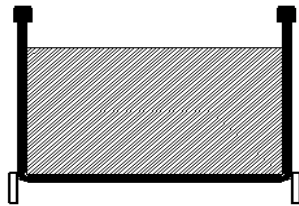
Usable area is defined by the width of the runway and a maximum 6" height.

TIA-569B 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



Trough Style Cable Runway

Usable area is defined by the width of the runway and a maximum 6" (152 mm) height.

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

Trough Style Cable Runway has 8" high retaining posts.

Ex. Trough



OnTrac 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-569B 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. OnTrac