



Cable Capacity Calculator V11

Panduit Patch Cord Approximate Diameters			
Cat.	AWG	in.	mm
5e	28	0.149	3.78
5e	24	0.215	5.46
6	28	0.150	3.81
6	24	0.235	5.97
6A	28	0.185	4.70
6A	24	0.250	6.35

Cat 6A Plenum UTP Cable	Dia. (in.)
Panduit Vari-MaTriX HD	0.23
Panduit Std Comp+ HD	0.23
CommScope 2091B	0.285
CommScope 2091SD	0.265
Belden 10GXS	0.265
Berk-Tek LANmark-XTP	0.275

Enter the cable diameter below and select in. or mm.

Cable Diameter =	0.230	in.	▼
	Duplex Cable?	no	▼

Product Family	Part Number	Description	Cable Manager Area		
			Front Usable Area	Rear Usable Area (sq.)	Total Usable Area (sq.)
PR2V PatchRunner™ 2 Vertical Cable Managers	PR2VD06	6" wide	45.1	27.3	72.4
	PR2VFD06	6" wide, front only	45.1	0.0	45.1
	PR2VD08	8" wide	63.7	39.7	103.4
	PR2VFD08	8" wide, front only	63.7	0.0	63.7
	PR2VD10	10" wide	82.3	52.2	134.5
	PR2VFD10	10" wide, front only	82.3	0.0	82.3
	PR2VD12	12" wide	100.9	64.7	165.6
	PR2VFD12	12" wide, front only	100.9	0.0	100.9
Single PR2V Finger					5.8

Recommended Cable Fill (30%)		
Front	Rear	Total
325	196	522
325	0	325
460	286	746
460	0	460
594	376	971
594	0	594
728	467	1195
728	0	728
41		

Maximum Cable Fill (50%)		
Front	Rear	Total
542	328	870
542	0	542
766	478	1244
766	0	766
990	628	1618
990	0	990
1214	778	1992
1214	0	1214
69		

PR2VRG PatchRunner™2 Rear Gate Accessory	PR2VRGSK06	6" wide gate kit	0.0	43.5	43.5
	PR2VRGSK08	8" wide gate kit	0.0	59.5	59.5
	PR2VRGSK10	10" wide gate kit	0.0	75.6	75.6
	PR2VRGSK12	12" wide gate kit	0.0	91.6	91.6

0	313	313
0	429	429
0	545	545
0	661	661

0	522	522
0	716	716
0	909	909
0	1102	1102

PR2HF PatchRunner™2 Horizontal Cable Managers	PR2HF2	2RU, front only	12.6	0	12.6
	PR2HF3	3RU, front only	23.1	0	23.1
	PR2HF4	4RU, front only	33.6	0	33.6

90	0	90
166	0	166
242	0	242

151	0	151
277	0	277
404	0	404

PE2V PatchRunner™ 2 High Capacity Vertical Cable Managers	PE2VD06	6" wide	66.1	44.3	110.4
	PE2VFD06	6" wide, front only	66.1	0.0	66.1
	PE2VD08	8" wide	92.5	63.1	155.6
	PE2VFD08	8" wide, front only	92.5	0.0	92.5
	PE2VD10	10" wide	118.9	82.0	200.8
	PE2VFD10	10" wide, front only	118.9	0.0	118.9
	PE2VD12	12" wide	145.2	100.7	246.0
	PE2VFD12	12" wide, front only	145.2	0.0	145.2
Single PE2V Finger					5.8

477	319	797
477	0	477
667	455	1123
667	0	667
858	591	1450
858	0	858
1048	727	1776
1048	0	1048
41		

795	532	1328
795	0	795
1112	759	1872
1112	0	1112
1430	986	2416
1430	0	1430
1747	1212	2960
1747	0	1747
69		

WMPV NetRunner™ Vertical Cable Managers	WMPV22E	4.9" wide, 22RU	17.3	17.3	34.6
	WMPVF22E	4.9" wide, 22RU, front only	17.3	0	17.3
	WMPV45E	4.9" wide, 45RU	17.3	17.3	34.6
	WMPVF45E	4.9" wide, 45RU, front only	17.3	0	17.3
	WMPVHC45E	6.7" wide, 45RU	30.7	30.7	61.4
	WMPVHC45E	6.7" wide, 45RU, front only	30.7	0	30.7
	Single WMPV Finger				
Single WMPVHC Finger					4.7

124	124	249
124	0	124
124	124	249
124	0	124
221	221	443
221	0	221
26		
33		

208	208	416
208	0	208
208	208	416
208	0	208
369	369	738
369	0	369
44		
56		

NRV NetRunner™ High Capacity Vertical Cable Managers	NRV10	10" wide, 45RU	49.1	49.1	98.2	354	354	709	590	590	1181
	NRVF10	10" wide, 45RU, front only	49.1	0	49.1	354	0	354	590	0	590
	Single NRV Finger					4.7	33			56	

WMP PatchLink™ Horizontal Cable Managers	WMP1E	2RU, front/rear	7.6	10.6	18.2	54	76	131	91	127	219
	WMPF1E	2RU, front only	7.6	0	7.6	54	0	54	91	0	91
	WMPH2E	2RU, front/rear, w/ bend rad. clips	5.9	10.6	16.5	42	76	119	71	127	198
	WMPHF2E	2RU, front only, w/ bend rad. clips	5.9	0	5.9	42	0	42	71	0	71
	WMPSE	1RU, front/rear	3.5	6.3	9.8	25	45	70	42	75	117
	WMPFSE	1RU, front only	3.5	0	3.5	25	0	25	42	0	42
	WMPLESE	1RU, front/rear, short depth	2.1	6.3	8.4	15	45	60	25	75	101
WMPFSE	1RU, front only, short depth	2.1	0	2.1	15	0	15	25	0	25	

Note: Rear section may be partially blocked by rack posts

NCMH NetManager™ Horizontal Cable Managers	NCMH2	2RU, front/rear	6	8	14	43	57	101	72	96	168
	NCMHF2	2RU, front only	6	0	6	43	0	43	72	0	72
	NCMHF1	1RU, front only	2.3	0	2.3	16	0	16	27	0	27

NM NetManager™ High Capacity Horizontal Cable Managers	NM1	1RU, front/rear	3.3	4.1	7.4	23	29	53	39	49	89
	NMF1	1RU, front only	3.3	0	3.3	23	0	23	39	0	39
	NM2	2RU, front/rear	9.8	11.1	20.9	70	80	150	117	133	251
	NMF2	2RU, front only	9.8	0	9.8	70	0	70	117	0	117
	NM3	3RU, front/rear	17.3	22	39.3	124	158	283	208	264	472
	NMF3	3RU, front only	17.3	0	17.3	124	0	124	208	0	208
	NM4	4RU, front/rear	24.3	31.9	56.2	175	230	405	292	383	676
NMF4	4RU, front only	24.3	0	24.3	175	0	175	292	0	292	

Note: Rear section may be partially blocked by rack posts

CMPH Open-Access™ Horizontal Cable Managers	CMPH1	1RU, front/rear	2.3	2.9	5.2	16	20	37	27	34	62
	CMPHF1	1RU, front only	2.3	0	2.3	16	0	16	27	0	27
	CMPH2	2RU, front/rear	5.3	10.8	16.1	38	77	116	63	129	193
	CMPHF2	2RU, front only	5.3	0	5.3	38	0	38	63	0	63
	CMPHH2	2RU, front only, larger D-rings	10.8	0	10.8	77	0	77	129	0	129
	CMPHHF1	1RU, front only, larger D-rings	2.9	0	2.9	20	0	20	34	0	34

Note: Rear section may be partially blocked by rack posts

PEHF PatchRunner™ High Capacity Horizontal Cable Managers	PEHF2	2RU, front only	16.6	0	16.6	119	0	119	199	0	199
	PEHF3	3RU, front only	29.6	0	29.6	213	0	213	356	0	356
	PEHF4	4RU, front only	42.8	0	42.8	309	0	309	515	0	515

CMVDR Vertical D-rings	CMVDR1	5.70"L x 2.00"W		6			43			72
	CMVDR1S	3.30"L x 2.00"W		3			21			36
	CMVDR2	5.70"L x 3.00"W		10.8			77			129
	CMVDR2S	3.30"L x 3.00"W		6			43			72
	CMVDRC	between-racks, 5.60"L x 8.00"W		24			173			288

CM Cable Routing Troughs	CMLT19	lower trough w/ bend radius		22.7			163			273
	CMUT19	upper trough w/ bend radius		8.2			59			98
	CMT4	horizontal trough		21.9			158			263

*Capacity is calculated for within the trough channel only. Higher capacities can be achieved when cables are tied together.

CWMPV IN-Cabinet Vertical Cable Manager	CWMPV2418	side mount, 2"W x 4"D x 2.6'H	5.7	0	5.7	41	0	41	68	0	68
	CWMPV3418	side mount, 3"W x 4"D x 2.6'H	9.1	0	9.1	65	0	65	109	0	109
	CWMPV2440	side mount, 2"W x 4"D x 6'H	5.7	0	5.7	41	0	41	68	0	68
	CWMPV3440	side mount, 3"W x 4"D x 6'H	9.1	0	9.1	65	0	65	109	0	109
	CWMPV2318	side mount, 2"W x 3"D x 2.6'H	5.2	0	5.2	37	0	37	62	0	62
	CWMPV3318	side mount, 3"W x 3"D x 2.6'H	7.8	0	7.8	56	0	56	93	0	93
	CWMPV2340	side mount, 2"W x 3"D x 6'H	5.2	0	5.2	37	0	37	62	0	62
CWMPV3340	side mount, 3"W x 3"D x 6'H	7.8	0	7.8	56	0	56	93	0	93	

4-Post Rack Vertical Tie-off Panels	V4PTOB	Vertical Tie-off Panel with AR4P 4-Post Racks mount brackets	31.7	0	31.7	228	0	228	381	0	381
	V4PTOB	Vertical Tie-off Panel with R4P 4-Post Racks mount brackets	35.8	0	35.8	258	0	258	430	0	430

J-PRO & J-MOD J Hooks	JP75^	J-Pro™ cable support, 0.75"			0.63		6			6
	JP131^	J-Pro™ cable support, 1.31"			1.74		16			16
	JP2^	J-Pro™ cable support, 2.0"			3.16		30			30
	JP4^	J-Pro™ cable support, 4.0"			13.48		129			129
	JMJH2^	J-Mod™ cable support, 2.0"			3.04		29			29

*Capacity is calculated for J Hooks with a 50% recommended fill and 70% maximum fill.

EMT Electrical Metallic Tubing	1/2"	Useable Inside Diameter in inches	0.622		0.30		2			2
	3/4"	Useable Inside Diameter in inches	0.824		0.53		5			5
	1"	Useable Inside Diameter in inches	1.049		0.86		8			8
	1-1/4"	Useable Inside Diameter in inches	1.38		1.50		14			14
	1-1/2"	Useable Inside Diameter in inches	1.61		2.04		19			19
	2"	Useable Inside Diameter in inches	2.067		3.36		32			32
	2-1/2"	Useable Inside Diameter in inches	2.731		5.86		56			56
	3"	Useable Inside Diameter in inches	3.356		8.85		85			85
	3-1/2"	Useable Inside Diameter in inches	3.834		11.55		111			111
4"	Useable Inside Diameter in inches	4.334		14.76		142			142	

*Capacity is calculated for J Hooks with a 50% recommended fill and 70% maximum fill.

EMT Electrical Metallic Tubing*	1/2"	Useable Inside Diameter in inches	0.622		0.30		2			2
	3/4"	Useable Inside Diameter in inches	0.824		0.53		5			5
	1"	Useable Inside Diameter in inches	1.049		0.86		8			8
	1-1/4"	Useable Inside Diameter in inches	1.38		1.50		14			14
	1-1/2"	Useable Inside Diameter in inches	1.61		2.04		19			19
	2"	Useable Inside Diameter in inches	2.067		3.36		32			32
	2-1/2"	Useable Inside Diameter in inches	2.731		5.86		56			56
	3"	Useable Inside Diameter in inches	3.356		8.85		85			85
	3-1/2"	Useable Inside Diameter in inches	3.834		11.55		111			111
4"	Useable Inside Diameter in inches	4.334		14.76		142			142	

*Capacity is calculated for conduit at 40% maximum per NEC guidelines

IMC Intermediate Conduit*	1/2"	Useable Inside Diameter in inches	0.675		0.36		3			3
	3/4"	Useable Inside Diameter in inches	0.879		0.61		5			5
	1"	Useable Inside Diameter in inches	1.12		0.99		9			9
	1-1/4"	Useable Inside Diameter in inches	1.468		1.69		16			16
	1-1/2"	Useable Inside Diameter in inches	1.703		2.28		21			21
	2"	Useable Inside Diameter in inches	2.17		3.70		35			35
	2-1/2"	Useable Inside Diameter in inches	2.597		5.30		51			51

3"	Useable Inside Diameter in inches	3.216	8.13	78	78
3-1/2"	Useable Inside Diameter in inches	3.711	10.82	104	104
4"	Useable Inside Diameter in inches	4.205	13.89	133	133

*Capacity is calculated for conduit at 40% maximum per NEC guidelines

Rigid Conduit Steel or Aluminum*	1/2"	Useable Inside Diameter in inches	0.622	0.30	2	2
	3/4"	Useable Inside Diameter in inches	0.824	0.53	5	5
	1"	Useable Inside Diameter in inches	1.049	0.86	8	8
	1-1/4"	Useable Inside Diameter in inches	1.38	1.50	14	14
	1-1/2"	Useable Inside Diameter in inches	1.61	2.04	19	19
	2"	Useable Inside Diameter in inches	2.067	3.36	32	32
	2-1/2"	Useable Inside Diameter in inches	2.469	4.79	46	46
	3"	Useable Inside Diameter in inches	3.068	7.40	71	71
	3-1/2"	Useable Inside Diameter in inches	3.548	9.89	95	95
	4"	Useable Inside Diameter in inches	4.026	12.74	122	122
	5"	Useable Inside Diameter in inches	5.047	20.01	192	192
	6"	Useable Inside Diameter in inches	6.065	28.90	278	278

*Capacity is calculated for conduit at 40% maximum per NEC guidelines