

## WIRE FILL CAPACITY CHART

Duct Size WxH				ELECTRICAL												COMMUNICATION				
				8 AWG		10 AWG		12 AWG		14 AWG			16 AWG		18 AWG		22 AWG	24 AWG		
				0.216	0.153	0.122	0.158	0.105	0.139	0.165	0.096	0.125	0.084	0.113	0.065	0.217	0.25	0.422		
inches	mm	G.S. in <sup>2</sup>	G.S. mm <sup>2</sup>	THHN	THHN	THHN	MTW	THHN	MTW	MTW	TFFN	MTW	TFFN	MTW	MTW	UTP/CM Cat5e	STP/CM Cat6e	UPT/CM		
0.59x0.67	15 x 17	0.263	170	3	5	10	6	14	8	6	16	10	21	12	36	3	2	1		
0.59x1.57	15 x 30	0.496	320	6	10	19	11	52	15	10	31	18	40	22	67	6	5	1		
0.59x1.57	15 x 40	0.697	450	9	13	27	16	72	21	15	43	26	57	30	95	8	6	2		
0.98x1.18	25 x 30	0.852	550	10	16	33	20	89	25	18	53	31	69	37	116	10	8	2		
0.98x1.57	25 x 40	1.178	760	14	23	45	27	122	35	25	73	43	96	51	160	14	11	3		
0.98x2.36	25 x 60	1.86	1200	23	36	72	43	193	55	39	116	68	151	81	252	23	17	5		
0.98x3.15	25 x 80	2.387	1540	29	46	92	55	248	71	50	148	88	194	104	324	29	22	6		
0.98x3.94	25 x 100	3.565	2310	44	69	137	82	371	106	75	222	131	289	155	483	43	33	9		
1.57x1.18	40 x 30	1.426	920	18	27	55	33	148	42	30	89	52	116	62	193	17	13	4		
1.57x1.57	40 x 40	2.03	1310	25	39	78	47	211	60	43	126	74	165	88	275	25	19	5		
1.57x2.36	40 x 60	3.038	1960	37	58	117	70	316	90	64	189	111	247	132	412	37	28	8		
1.57x3.15	40 x 80	4.154	2680	51	80	160	95	432	123	87	258	152	337	181	563	51	38	10		
1.57x3.94	40 x 100	5.192	3350	64	100	200	119	540	154	109	323	190	422	226	704	63	48	13		
2.36x1.18	60 x 30	2.17	1400	27	42	84	50	226	64	46	135	80	176	94	294	26	20	5		
2.36x1.57	60 x 40	3.038	1960	37	58	117	70	316	90	64	189	111	247	132	412	37	28	8		
2.36x2.36	60 x 60	4.774	3080	59	92	184	110	496	142	100	297	175	388	208	647	58	44	12		
2.36x3.15	60 x 80	6.509	4200	80	125	251	149	677	193	137	405	239	529	283	883	79	60	16		
2.36x3.94	60 x 100	8.245	5320	101	159	317	189	857	245	174	513	302	670	359	1118	100	76	21		
3.15x1.57	80 x 40	4.115	2655	51	79	158	94	428	122	87	256	151	334	179	558	50	38	10		
3.15x2.36	80 x 60	6.471	4175	79	124	249	149	673	192	136	402	237	525	281	878	79	59	16		
3.15x3.15	80 x 80	8.827	5695	108	170	340	203	917	262	186	549	324	717	384	1197	107	81	22		
3.15x3.94	80 x 100	11.043	7125	136	212	425	253	1148	327	232	687	405	897	480	1498	134	101	28		
3.94x1.57	100 x 40	5.231	3375	64	101	201	120	544	155	110	325	192	425	227	709	64	48	13		
3.94x2.36	100 x 60	8.207	5295	101	158	316	188	853	243	173	510	301	666	357	1113	100	75	21		
3.94x3.15	100 x 80	11.182	7215	137	215	431	257	1162	332	235	695	410	908	486	1517	136	103	28		
3.94x3.94	100 x 100	14.158	9135	174	272	545	325	1472	420	298	880	519	1150	616	1920	172	130	36		
3.94x5.91	100 x 150	21.226	3695	261	408	817	487	2206	629	447	1320	778	1724	923	2879	258	195	54		
4.72x3.15	120 x 80	13.499	8710	166	260	520	310	1403	400	284	839	495	1096	587	1831	164	124	34		
5.91x3.94	150 x 100	21.187	3670	260	407	816	486	2202	628	446	1317	777	1721	921	2873	258	194	54		

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## TECHNICAL INFO

### Materials characteristics

	PVC Self-extinguishing	ABS Self-extinguishing
Specific gravity	1.48 g/cm <sup>2</sup>	1.05 g/cm <sup>2</sup>
Shore hardness	79 D	110 R
Vicat degree (5kg)	76°C	95°C
Izod resistance at 23° C (C. Int.)	7.4 Kj/m	70 J/m
Izod resistance at 0° C (C. Int.)	4.1 Kj/m	40 J/m
Izod resistance at -10° C (C. Int.)	4 Kj/m	5 J/m
Ultimate tensile stress	37.3 N/mm <sup>2</sup>	40 MPa
Yeld point	46.2 N/mm <sup>2</sup>	25%
Modulus of elasticity	2736 N/mm <sup>2</sup>	2400 MPa
Flame resistance (According to UL94)	V0	V2
Linear thermal expansion coefficient	0.1 mm/m/°C	0.19

### Classification grading according to the standard EN 50085-2/3

Reference to the specifications for slotted and solid wiring ducts

Classification min temperature of transport and storage		
1 <sup>a</sup> Code	Temp. °C	°F
2XX	-25	-13

Classification min temperature of installation and use		
1 <sup>a</sup> Code	Temp. °C	°F
X3X	-5	23

Classification max temp. of use		
1 <sup>a</sup> Code	Temp. °C	°F
XX1	+60	140

### Derivating classification of our wire ducts

Type A	231
Type S	231
Type EDGE	231