

# Conduit Wire Fill Charts

## Common Conversions

LENGTH	WEIGHT	TEMPERATURE
1 Foot = 0.305 Meters	1 Pound = 454 Grams	°C = Degrees Centigrade
1 Meter = 3.281 Feet	1 Pound = 0.454 Kilograms	°F = Degrees Fahrenheit
1 Inch = 25.4 Millimeters	1 Kilogram = 2.205 Pounds	°C = (°F - 32) ÷ 1.8
1 Millimeter = 0.039 Inches	1 Gram = 0.035 Ounces	°F = (°C x 1.8) + 32
1 Inch = 2.54 Centimeters	1 Ounce = 28.349 Grams	
1 Centimeter = 0.394 Inches		

### CONDUIT WIRE FILL CHARTS

*Per National Electrical Code - Chapter 9, Table 4*

Flexible Metal Conduit - BR, ABR						Liquidtight Flexible Metal Conduit - LA, LT, EF, ATLA, AT, ATX, ALT, ZHLA, CEA, CSA, VJC, LAFG, LSSFG, LTSS, ZHSS, ATXSS, ATSS, CBLA				
Trade Size (in.)	Internal Diameter (in.)	Total Area 100% (sq. in.)	2 Wires 31% (sq. in.)	Over 2 Wires 40% (sq. in.)	1 wire 53% (sq. in.)	Internal Diameter (in.)	Total Area 100% (sq. in.)	2 Wires 31% (sq. in.)	Over 2 Wires 40% (sq. in.)	1 wire 53% (sq. in.)
3/8	0.384	0.116	0.036	0.046	0.061	0.494	0.192	0.060	0.077	0.102
1/2	0.635	0.317	0.098	0.127	0.168	0.632	0.314	0.097	0.126	0.166
3/4	0.824	0.533	0.165	0.213	0.282	0.83	0.541	0.168	0.216	0.287
1	1.02	0.817	0.253	0.327	0.433	1.054	0.872	0.27	0.349	0.462
1-1/4	1.275	1.277	0.396	0.511	0.677	1.395	1.528	0.474	0.611	0.81
1-1/2	1.538	1.857	0.576	0.743	0.984	1.588	1.979	0.613	0.792	1.049
2	2.04	3.269	1.013	1.308	1.733	2.033	3.245	1.006	1.298	1.72
2-1/2	2.5	4.909	1.522	1.964	2.602	2.493	4.879	1.512	1.952	2.586
3	3	7.069	2.191	2.828	3.747	3.085	7.475	2.317	2.99	3.962

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3-1/2	3.5	9.621	2.983	3.848	5.099	3.52	9.731	3.017	3.892	5.157
4	4	12.566	3.895	5.026	6.66	4.02	12.692	3.935	5.077	6.727
<b>Flexible Nonmetallic Conduit Type A - LNMP</b>						<b>Liquidtight Nonmetallic Conduit Type B - NM, NMHT, NMFG, NM2</b>				
Trade Size (in.)	Internal Diameter (in.)	Total Area 100% (sq. in.)	2 Wires 31% (sq. in.)	Over 2 Wires 40% (sq. in.)	1 wire 53% (sq. in.)	Internal Diameter (in.)	Total Area 100% (sq. in.)	2 Wires 31% (sq. in.)	Over 2 Wires 40% (sq. in.)	1 wire 53% (sq. in.)
3/8	0.495	0.192	0.06	0.077	0.102	0.494	0.192	0.06	0.077	0.102
1/2	0.63	0.312	0.097	0.125	0.165	0.632	0.314	0.097	0.126	0.166
3/4	0.825	0.535	0.166	0.214	0.284	0.83	0.541	0.168	0.216	0.287
1	1.043	0.854	0.265	0.342	0.453	1.054	0.872	0.27	0.349	0.462
1-1/4	1.383	1.501	0.465	0.6	0.796	1.395	1.528	0.474	0.611	0.81
1-1/2	1.603	2.017	0.625	0.807	1.069	1.588	1.979	0.613	0.792	1.049
2	2.063	3.341	1.036	1.336	1.771	2.033	3.245	1.006	1.298	1.72
<b>NPT Threaded Fittings</b>						<b>NPT Threaded Fittings - Knock Out Diameter</b>				
3/8	1/2					7/8				
1/2	1/2					7/8				
3/4	3/4					1-3/32				
1	1					1-23/64				
1-1/4	1-1/4					1-23/32				
1-1/2	1-1/2					2				
2	2					2-1/2				