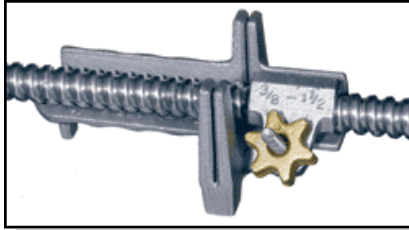




Cutting and Conduit Fill Information



Cutting Vise. This cutting vise is recommended for accurate, straight cuts in the field. This light weight (2.4 lb) cast iron vise can either be bench mounted or carried in the tool box. The clamping mechanism securely holds the flexible conduit while the slots guide a hack saw to ensure a clean square cut. Suitable for conduit trade sizes 3/8" to 1-1/2".

Cutting Flexible Conduits. Proper cutting methods for flexible conduits are important to ensure a sealed connection when assembled with intended fittings. Furthermore, in case of flexible conduits containing steel, a clean, square cut is necessary for establishing a good connection for continuity of the ground

Hand Cutting in field. When using a hand held hack saw, care should be taken to make a square clean cut. This can be easily achieved through the use of the cutting vise shown on this page. For best results, a blade having 24 to 32 teeth per inch with no-set is recommended. For larger sizes, apply reinforced tape around the circumference of the conduit and cut directly through the middle of the tape. This will reduce the possibility of flaring the ends while cutting.

Common Conversions

Length

1 Foot = 0.305 Meters
1 Meter = 3.281 Feet

Weight

1 Pound = 454 Grams
1 Pound = 0.454 Kilograms

CONDUIT WIRE FILL CHART

Per National Electric Code—Chapter 9, Table 4

Zero Ground dBzSHIELD™

Shielded Flexible Conduit

| Trade Size | Internal Diameter inch | Total Area 100% sq.in. | 2 Wires 31% sq.in. | Over 2 Wires 40% sq.in. | 1 Wire 53% sq.in. |
|------------|------------------------|------------------------|--------------------|-------------------------|-------------------|
| 3/8" | .494 | .192 | .060 | .077 | .102 |
| 1/2" | .632 | .314 | .097 | .126 | .166 |
| 3/4" | .830 | .541 | .168 | .216 | .287 |
| 1" | 1.054 | .872 | .270 | .349 | .462 |
| 1-1/4" | 1.395 | 1.528 | .474 | .611 | .810 |
| 1-1/2" | 1.588 | 1.979 | .613 | .792 | 1.049 |
| 2" | 2.033 | 3.245 | 1.006 | 1.298 | 1.720 |
| 2-1/2" | 2.493 | 4.879 | 1.512 | 1.952 | 2.586 |
| 3" | 3.085 | 7.475 | 2.317 | 2.990 | 3.962 |
| 3-1/2" | 3.520 | 9.731 | 3.017 | 3.892 | 5.157 |
| 4" | 4.020 | 12.692 | 3.935 | 5.077 | 6.727 |