

## Bushings, Nipples, Locknuts and Plugs

**Provides smooth, rounded insulation surface for easy wire pulling!**

### Knockout Bushings

- Quickly snaps into outlet box, switch box or other enclosure left vacant by wiring modifications or maintenance changes
- High-impact polycarbonate, one-piece construction
- Easily installed by hand
- UL Listed 105° C

#### Application

- To provide smooth, rounded knockout openings in metal boxes or enclosures

#### Features

- One-piece construction designed to snap in place
- High-impact strength, self extinguishing, non-dripping (per UL 94) polycarbonate construction

#### Standard Material

Polycarbonate rated for 105° C (221° F) application

#### Standard Finish

As molded

#### Range

.875" through 2.469" nominal diameter knockout opening (½" through 2" trade size knockouts)

Wall thickness of box or enclosure

.095" max. up to 1" trade size

.140" max. 1¼" through 2" trade size

#### Listings/Compliances

UL (UL File No. E-3803)

CSA (LR-589,LR-4484)

UL 514B

CSA C22.2 No. 18

NFPA 70-1999 (ANSI)



3210 Series



| CAT. NO. | FOR USE IN KO SIZE* | DIMENSION (IN.) |  |
|----------|---------------------|-----------------|--|
|          |                     | B               |  |
| 3210     | .875                | .360            |  |
| 3211     | 1.109               | .360            |  |
| 3212     | 1.375               | .360            |  |
| 3213     | 1.734               | .400            |  |
| 3214     | 1.984               | .520            |  |
| 3215     | 2.469               | .520            |  |

\* Per UL and NEMA standards. Refer to Knockout Plugs table on next page.

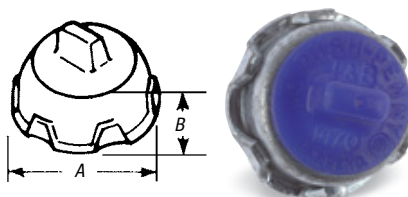
Oxygen Index >28° UL 94V-1

UL File No. E-3803 CSA File No. 589

**Makes a workman-like seal against grit, plaster and mischief!**

### Capped Bushings

- Removable with pliers
- ½" through 1¼" sizes in steel
- 1½" and 2" sizes in malleable iron



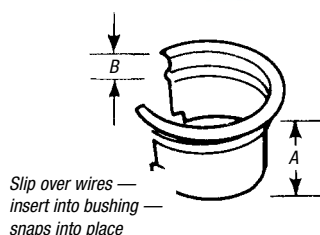
| CAT. NO. | SIZE | DIMENSIONS (IN.) |       |
|----------|------|------------------|-------|
|          |      | A                | B     |
| 1460     | ½"   | 1⅜               | 13/32 |
| 1461     | ¾"   | 1¼               | 7/16  |
| 1462     | 1"   | 1⅞               | ½     |
| 1463     | 1¼"  | 1⅞               | 9/16  |
| 1464     | 1½"  | 2⅞               | 19/32 |
| 1465     | 2"   | 2⅞               | 5/8   |

UL File No. E-23018 CSA File No. 2884

**Snap into a regular bushing to make a UL Listed insulated bushing!**

### INSULINER® Sleeves

- Converts ordinary bushing to code-approved insulated bushing without disturbing wiring
- For use with standard rigid conduit, EMT (thinwall conduit) or any standard bushed outlet
- Especially suited for use with flexible metallic conduit
- High-dielectric nylon material, rated 105° C



| CAT. NO. | SIZE | DIMENSIONS (IN.) |      |
|----------|------|------------------|------|
|          |      | A                | B    |
| 422      | ½"   | 5/8              | .025 |
| 423      | ¾"   | 1⅞               | .025 |
| 424      | 1"   | 7/8              | .025 |
| 425      | 1¼"  | 1                | .030 |
| 426      | 1½"  | 1                | .030 |
| 427      | 2"   | 1⅞               | .030 |
| 428      | 2½"  | 1¼               | .040 |
| 429      | 3"   | 1½               | .040 |
| 430      | 3½"  | 1⅞               | .055 |
| 431      | 4"   | 2⅞               | .055 |
| 433      | 5"   | 2½               | .070 |
| 434      | 6"   | 2½               | .070 |

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