

NEC Code for Bonding Bushings: Cheat Sheet

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1. The rule in one line

The NEC does not say "use a bonding bushing." It requires reliable bonding of metal raceways, and a bonding bushing with a jumper is one listed way to do it. Wire size is not the trigger.

2. When bonding is required

Situation	Section	Result
Service raceway at concentric or eccentric knockouts, reducing washers or oversized knockouts	250.92(B)	Bond with jumper or listed fitting
Circuit over 250 V to ground at ringed knockouts not listed for bonding	250.97	Bond with jumper or listed fitting
Ferrous raceway containing a grounding electrode conductor	250.64(E)	Bond at both ends
Branch circuit 250 V or less to ground, clean punched knockout	General rules	Usually no bushing

3. Bonding bushing vs grounding bushing

In most catalogs they are the same part: a bushing with a lug for a jumper. The NEC term is bonding. An insulating bushing with no lug is not a bond. Conductors of 4 AWG or larger entering an enclosure need an insulating throat (300.4(G)).

4. Jumper sizing pointers

Where	Size from
Service (supply side)	250.102(C), from the largest service conductor
Load side over 250 V to ground	Equipment bonding jumper rules, Table 250.122
GEC raceway bond	Same size or larger than the GEC (check 250.64(E))

5. Quick questions

- Both ends? GEC raceway: yes. Service raceway: bond at the service equipment, and confirm the far end with your inspector.
- Edition? Same approach in 2020 and 2023. The 2026 edition reorganizes some articles, so check section numbers.
- Article 250? Grounding and bonding. Part V covers bonding (250.90 to 250.106).

Educational summary, not the NEC text. Verify against the edition and local amendments your inspector enforces. Read the NEC free on NFPA's website. © Azad Circuit Hub.