N ***TABLE 400.44(B)(1)*** *Thickness of Insulation for Three-Conductor Type G Portable Power Feeder Cables Rated 2000 Volts to 5000 Volts and Equipment Grounding Conductor Size*

Copper Conductor Size (AWG) or kcmil	Nominal Insulation Thickness of Power Conductors		Equipment Grounding Conductor
	mils	mm	Size AWG
6	110	2.79	10
4–2	110	2.79	8
1	110	2.79	7
1/0	110	2.79	6
2/0	110	2.79	5
3/0	110	2.79	4
4/0	110	2.79	3

N ***TABLE 400.44(B)(2)*** *Thickness of Insulation for Single Conductor Type SH Portable Power Feeder Cables Rated 2000 Volts to 25,000 Volts for 100 Percent Insulation Level*

Copper Conductor Size (AWG) or kcmil	Nominal Insulation Thickness of Power Conductors	
	mils	mm
2001 to 5000 volts		
6–4/0	110	2.79
250–500	120	3.05
5001 to 8000 volts		
4–500	150	3.81
8001 to 15,000 volts		
2–500	210	5.33
15,001 to 25,000 volts		
1–500	295	7.49

N ***TABLE 400.44(B)(3)*** *Thickness of Insulation for Three-Conductor Type SHD and SHD-GC Portable Power Feeder Cables Rated 2000 Volts to 25,000 Volts for 100 Percent Insulation Level and Grounding Conductor Size*

Copper Conductor Size (AWG) or kcmil	Nominal Insulation Thickness of Power Conductors		Grounding Conductor
	mils	mm	Size AWG
2000 to 5000 volts			
6–4/0	110	2.79	8
250–500	120	3.05	8
5001 to 8000 volts			
4–500	150	3.81	8
8001 to 15,000 volts			
2–4/0	210	5.33	8
15,001 to 25,000 volts			
1–4/0	295	7.49	8

N ***TABLE 400.44(B)(4)*** *Thickness of Insulation for Three-Conductor Type SHD-CGC Portable Power Feeder Cables Rated 2000 Volts to 5000 Volts for 100 Percent Insulation Level and Grounding Conductor Size*

Copper Conductor Size (AWG) or kcmil	Nominal Insulation Thickness of Power Conductors		Equipment Grounding Conductor
	mils	mm	Size AWG
6	110	2.79	10
4–2	110	2.79	8
1	110	2.79	7
1/0	110	2.79	6
2/0	110	2.79	5
3/0	110	2.79	4
4/0	110	2.79	3
250	120	3.05	2
300–350	120	3.05	1
500	120	3.05	2/0

N **400.46 Equipment Grounding Conductors.** Equipment grounding conductors shall be connected in accordance with Parts VI and VII of Article 250.

N **400.47 Minimum Bending Radii.** The minimum bending radii for portable power feeder cables from 2000 volts to 5000 volts shall not exceed six times the overall cable outer diameter. The minimum bending radii for portable cables from 5001 volts to 25,000 volts shall not exceed eight times the overall cable outer diameter.

N **400.48 Fittings.** The use of connectors and couplers to connect lengths of cable together in a run shall not be permitted.

N **400.49 Splices and Terminations.** Portable power feeder cables shall not contain splices. Connectors, couplers, lugs, elbows, and terminations for portable power feeder cables rated over 2000 volts, nominal, shall be accessible only to authorized and qualified personnel. Suitable means shall be used to eliminate tension at connectors, couplers, lugs, elbows, and terminations.

N **400.50 Types.** Portable power feeder cables rated greater than 2000 volts shall conform to the description in Table 400.50. Types G, SHD-PCG, and SHD-CGC shall be used only from 2000 volts to 5000 volts. Types SH, SHD, and SHD-GC shall be used from 2000 volts to 25,000 volts. Where a Type designation for portable power feeder cables over 2000 volts conflicts with a designation description in Table 400.4, the description in Table 400.50 shall apply. The use of portable power feeder cables other than those in Table 400.50 shall require permission by the authority having jurisdiction.

N **400.51 Ampacities for Portable Power Feeder Cables Rated Greater Than 2000 Volts.**

N **(A) Ampacity Tables.** Table 400.51(A)(1) provides the ampacities for single and three-conductor portable power feeder cables rated greater than 2000 volts. Where portable power feeder cables are used in ambient temperatures other than 30°C (86°F), the