

3M™ Cold Shrink Three Conductor Breakout Kit 3C-BOK Series

For using 3M™ Single Conductor Accessories on Three-Conductor Cables, 5–35 kV

The 3M™ Cold Shrink Three Conductor Breakout Kit includes everything you need to use 3M™ Single Conductor Accessories on three-conductor cables; ultimately, this offers you much greater flexibility for 3/C medium voltage applications – especially in tight spaces. Based on field-proven cold shrink technology pioneered by 3M and 40+ years of experience, the Breakout Kit is easy and quick to install, even in confined spaces – with no special tools, torch/flame or hot permits required. These kits, when used with our 1/C Terminations, allow for a

much shorter overall install length than is possible with our “3G” series kits (3M™ Cold Shrink QT-III Termination Kit 3G Series) – and with fewer parts.

There are many other possible configurations for these Breakout Kits (e.g. with more or less re-jacketing, with heat shrink, etc.), and 3M can custom package these kits to fit your needs.

The Breakout Kit can also be customized to include lugs, mounting brackets, grounding tails and other hardware for your specific site requirements. What’s more, our experienced Construction Services personnel will create application take-offs based on your documentation and cable schedules, in order to provide terminating solutions tailored for your application.

The Breakout Kits can be used with various cable accessories, including 3M™ Terminations, 3M™ T-Bodies and 3M™ Push-On Elbows.

- All components needed are included in the kit
- Multi-Purpose: can be used with 3M™ Terminations, 3M™ T-Bodies, and 3M™ Push-On Elbows
- Customizable Kits: lugs, mounting brackets, re-jacketing can all be adjusted per your needs
- Hydrophobic, track and erosion resistant silicone provides long-term performance and high reliability
- Long-term reliability even in contaminated areas
- Fewer components to make installation easy and fast
- Shorter installed length which makes it suitable for confined areas
- No need for a torch/heat source
- No need for a hot permit
- No special tools needed
- Easy unwinding pull-core that requires less pull strength than a one-piece tube
- Meets global industry standards IEEE 48, Cenelec 0278, IEC 502 and GB

Designed to help keep your project on track, on time and on budget.



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Kit Contents

Use one Breakout Kit (BOK) per three-conductor cable. Each Breakout Kit contains the following appropriately sized components and accessories:

- 1 Cold Shrink Silicone Rubber Breakout Boot (includes 2 Strips Scotch® Mastic Strip 2230)
- 3 Silicone Rubber Phase Rejacketing Sleeve (RJS) Assemblies (4 ft. length each)
- 1 Constant Force Spring (Large) – for armored cable only
- 1 Long Tail Tinned Copper Ground Braid with Solder Block – for armored cable only
- 3 Strips Scotch® Mastic Strip 2230 (black with white release liner, bagged)
- 1 Roll Scotch® Super 33+™ Vinyl Electrical Tape, ¾ in.
- 1 Roll, Scotch® Electrical Shielding Tape 24 – for armored cable only
- Instruction Sheet

Applications

3M™ Cold Shrink Breakout Kits are designed to allow the use of single conductor (1/C), outdoor and indoor 3M Cable Accessories on three-conductor (3/C) cables:

Compatible with the following 1/C Accessories

- 3M™ Terminations
- 3M™ T-Bodies
- 3M™ Push-On Elbows

Compatible with the following 3/C Conductor Cables

- Three-conductor type “G” (ground wire)
- Copper tape shield
- Armored cables (Type MC-HL Cables)
- Tray cable without armor (Type TC Cables)

For general inquiries or customized Breakout Kits, call: 1-800-245-3573 or contact your 3M Sales Representative.

You can also visit us online at www.3M.com/electrical.

Product Ordering Information

Kit Number	Cable Insulation O.D. Range, in (mm)	Cable O.D. Max, in (mm)	Conductor Size Range, AWG & kcmil									
			5 kV		8 kV		15 kV		25/28 kV		35 kV	
			100%	133%	100%	133%	100%	133%	100%	133%	100%	133%
3C-BOK-1	0.33–0.50 (8,4–12,7)	1.94 (49,3)	8–2	6–4	6–4	6–4	–	–	–	–	–	–
3C-BOK-2	0.50–0.70 (12,7–17,8)	2.67 (67,8)	1–3/0	2–2/0	2–2/0	2–2/0	2–1	–	–	–	–	–
3C-BOK-3	0.70–0.92 (17,8–23,4)	3.10 (78,7)	4/0–350	3/0–350	3/0–350	3/0–350	1/0–4/0	2–3/0	1–1/0	–	–	–
3C-BOK-4	0.92–1.18 (23,4–30,0)	4.32 (109,7)	400–500	400–500	400–500	400–500	250–350	4/0–350	2/0–250	1–4/0	–	–
3C-BOK-5	1.18–1.52 (30,0–38,6)	4.70 (119,4)	700–1000	700–1000	700–1000	700–1000	500–750	500–750	350–500	250–500	4/0–500	1/0–350
3C-BOK-6	1.53–1.81 (38,8–46,0)	5.52 (140,2)	–	–	–	–	1000	1000	750	500–750	500–750	350–750

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