



# COLDFLEX GROUND CABLE™

Flexible Low-Temperature Ground Cable for Power Distribution Applications

**Scope:** This document covers the COLDFLEX Ground Cable™ product line of flexible, low-temperature ground cables used for power distribution applications. COLDFLEX Ground Cable™ has been tested for cold weather flexibility down to -40C, UV resistance and operating voltages up to 5kV.

**Reference Documents:** ASTM B 3 Specification for Soft or Annealed Copper Wire  
ASTM B 33 Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes  
ASTM B 286 Specification for Copper Conductors for Use in Hookup Wire for Electronic Equipment  
CSA C22.2 No. 0.3-01 Test Methods for Electrical Wires and Cables  
UL 1581 UL Standard for Safety for Electrical Wires, Cables and Flexible Cords

**Conductor Information:** COLDFLEX Ground Cable™ is manufactured using highly stranded bare copper conductors; see Table 1 for standard conductor sizes and stranding information. Ultra flexible stranded conductors are also available in a variety of conductor materials; please contact our design teams for specific information.

**Insulation Information:** COLDFLEX Ground Cable™ is manufactured using high performance compounds specifically formulated for use where cold weather flexibility, UV resistance and high dielectric strength are required.

**Surface Marking:** COLDFLEX Ground Cable™ is surface printed with the following legend: "XX AWG COLDFLEX GROUND CABLE™ 5KV -50C NEW ENGLAND WIRE TECHNOLOGIES 603-838-6624"

Part Number	Conductor Information			Insulation Information			Breakdown Voltage	Cable Weight
	AWG Size	Stranding	Nom OD	Thickness	OD	Tolerance		
N48-30B-802	250 kCMA	2489/30	0.635"	.085"	0.805"	+/- .020"	>45 kV	871.8 #/kft
N48-30B-803	4/0 AWG	2121/30	0.585"	.085"	0.755"	+/- .020"	>45 kV	746.3 #/kft
N48-30B-755	3/0 AWG	1680/30	0.521"	.085"	0.691"	+/- .020"	>45 kV	599.2 #/kft
N48-30B-756	2/0 AWG	1344/30	0.466"	.085"	0.636"	+/- .020"	>35 kV	486.5 #/kft
N48-30B-757	1/0 AWG	1071/30	0.416"	.085"	0.586"	+/- .020"	>35 kV	394.3 #/kft
N48-30B-701	2 AWG	865/30	0.319"	.085"	0.449"	+/- .016"	>20 kV	240.9 #/kft
N48-30B-650	4 AWG	413/30	0.251"	.065"	0.381"	+/- .016"	>20 kV	156.0 #/kft

- NOTES:**
- Standard conductors are made with 30 AWG bare copper strands; tinned copper available upon request.
  - Conductor OD determined when the cable is under tension during extrusion process. Please request a sample for evaluation prior to making decisions regarding connectors to be used with these cables.
  - Insulation color determined by customer requirement.