

TEMPERGARD 2000

HIGH-TEMPERATURE CABLE

450C/600V and 538C/600V

RATINGS / APPROVALS

450°C – 600 Volts - continuous temperature rating under normal service conditions

538°C – 600 Volts - peak temperature rating for intermittent periods

Passes NEMA WC 3 Flame Propagation Test

Passes IEEE-383 (modified) 210,000 BTU/hr Vertical Cable Tray Flame Test

Maintains circuit integrity for a minimum of 2.5 hour

under ICEA T-29-520 210,000 BTU/hr Vertical Flame Test

Passes ICEA T-27-581 Water Absorption Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel-coated copper-27%

Insulating System

Reinforced mica tape with fiberglass braid cover over each insulated conductor.

High temperature tracers are woven into the braid for K-4 color coding. (Unless specified)

Overall Binder Tapes

Flame and heat-resistant reinforced mica tape with fused PTFE fluoropolymer tape overall.

Outer Covering

Braided fiberglass with high-temperature finish. Optional wire braid of stainless steel, nickel plated copper, other suitable material.

Standard Color

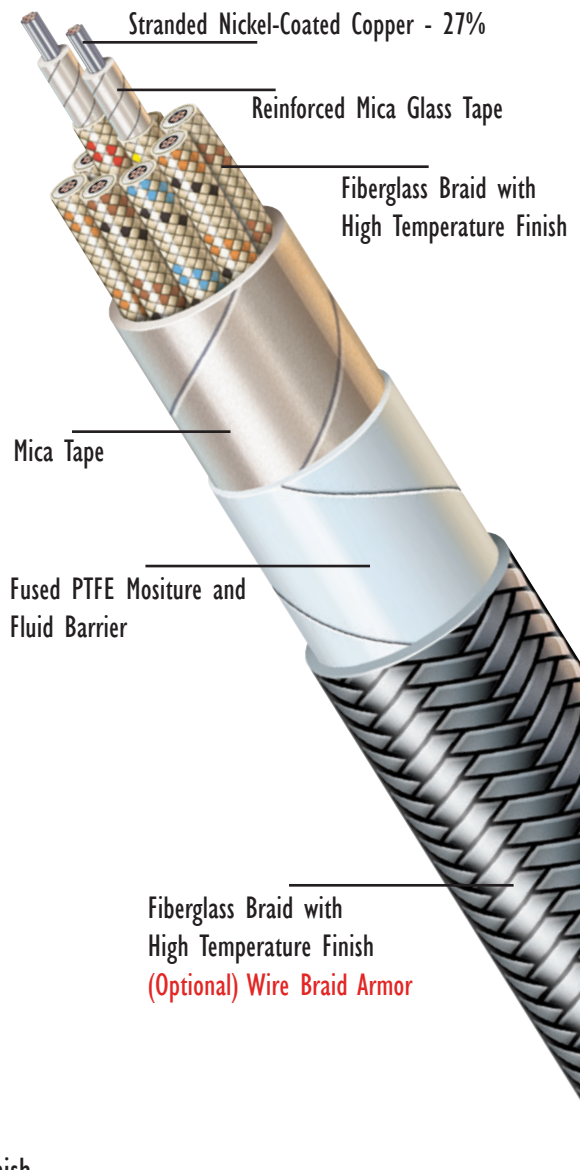
Black (Colors available)

CHARACTERISTICS

- Moisture, oil, fluid and abrasion resistant.
- Fillers, where needed, are made with flame-impervious fibers with moisture-repellent finish.
- Cable utilizes Radix “Torque Free” design. This eliminates memory found in traditional right-hand or left-hand twisted cables.
- Binder tapes provide heat and moisture resistance.
- Not recommended for outdoor use.

APPLICATION

For use in circuits where the preservation of circuit integrity under abusive, high-temperature environments and resistance to abrasion, flame, oil, and other fluids is desired. Used in iron, steel, paper, and glass plants.



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SPECIFICATIONS

TEMPERGARD 2000

HIGH-TEMPERATURE CABLE

TEMPERGARD 2000 450C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km
BNI8GC02T	18	16	2	0.316	8.03	58.04	86.38
BNI8GC03T	18	16	3	0.332	8.43	70.01	104.19
BNI8GC04T	18	16	4	0.360	9.14	82.02	122.07
BNI8GC05T	18	16	5	0.393	9.98	99.33	147.83
BNI8GC06T	18	16	6	0.427	10.85	114.32	170.14
BNI6GC02T	16	26	2	0.345	8.76	70.64	105.13
BNI6GC03T	16	26	3	0.364	9.25	87.62	130.40
BNI6GC04T	16	26	4	0.395	10.03	104.79	155.95
BNI6GC05T	16	26	5	0.433	11.00	127.36	189.54
BNI6GC06T	16	26	6	0.472	11.99	147.60	219.66
BNI4GC02T	14	41	2	0.368	9.35	85.53	127.29
BNI4GC03T	14	41	3	0.389	9.88	107.17	159.49
BNI4GC04T	14	41	4	0.423	10.74	130.31	193.93
BNI4GC05T	14	41	5	0.465	11.81	158.89	236.47
BNI4GC06T	14	41	6	0.506	12.85	185.16	275.56
BNI2GC02T	12	65	2	0.408	10.36	110.23	164.05
BNI2GC03T	12	65	3	0.432	10.97	143.57	213.67
BNI2GC04T	12	65	4	0.472	11.99	176.29	262.36
BNI2GC05T	12	65	5	0.520	13.21	215.74	321.07
BNI2GC06T	12	65	6	0.573	14.55	257.45	383.15
BNI0GC02T	10	105	2	0.528	13.41	174.10	259.10
BNI0GC03T	10	105	3	0.567	14.40	238.03	354.24
BNI0GC04T	10	105	4	0.620	15.75	295.30	439.48
BNI0GC05T	10	105	5	0.685	17.40	361.92	538.62
BNI0GC06T	10	105	6	0.725	18.42	392.59	
BNI0GC07T	10	105	7	0.725	18.42	447.02	

Standard conductor: Nickel-Coated Copper 27%
 Consult factory for alternative conductor and stranding options.

All dimensions listed above are nominal
 Information included in this catalog is intended as a guideline only. For applications that require tight tolerances, please contact the Radix factory for dimensional verification. Information herein is believed to be accurate as of publication date; however, if an error exists it is unintentional and Radix Wire & Cable is not responsible for any claim traceable to such error.

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 EST. 1944

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