

## 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 hours

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)

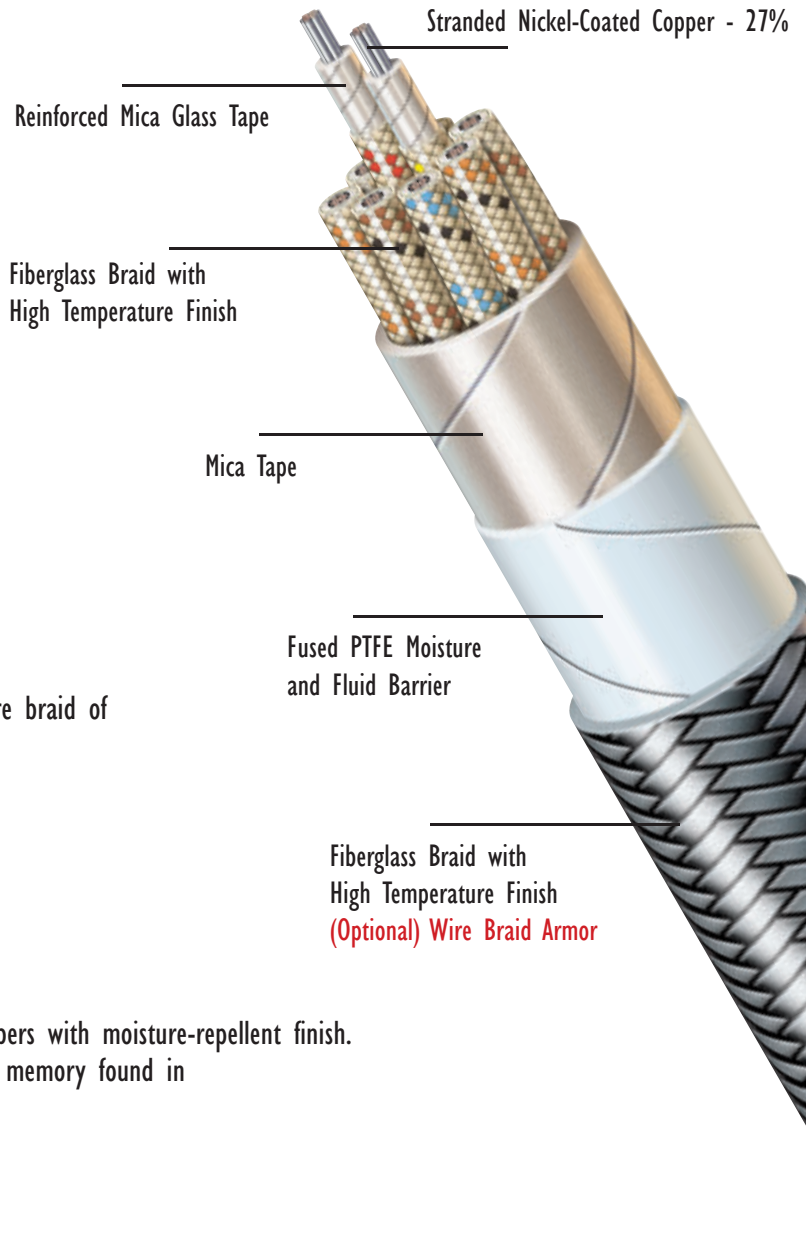
## CHARACTERISTICS

- 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
BN18GC02T	18	16	2	0.316	8.03	58.04	86.38
BN18GC03T	18	16	3	0.332	8.43	70.01	104.19
BN18GC04T	18	16	4	0.360	9.14	82.02	122.07
BN18GC05T	18	16	5	0.393	9.98	99.33	147.83
BN18GC06T	18	16	6	0.427	10.85	114.32	170.14
BN16GC02T	16	26	2	0.345	8.76	70.64	105.13
BN16GC03T	16	26	3	0.364	9.25	87.62	130.40
BN16GC04T	16	26	4	0.395	10.03	104.79	155.95
BN16GC05T	16	26	5	0.433	11.00	127.36	189.54
BN16GC06T	16	26	6	0.472	11.99	147.60	219.66
BN14GC02T	14	41	2	0.368	9.35	85.53	127.29
BN14GC03T	14	41	3	0.389	9.88	107.17	159.49
BN14GC04T	14	41	4	0.423	10.74	130.31	193.93
BN14GC05T	14	41	5	0.465	11.81	158.89	236.47
BN14GC06T	14	41	6	0.506	12.85	185.16	275.56
BN12GC02T	12	65	2	0.408	10.36	110.23	164.05
BN12GC03T	12	65	3	0.432	10.97	143.57	213.67
BN12GC04T	12	65	4	0.472	11.99	176.29	262.36
BN12GC05T	12	65	5	0.520	13.21	215.74	321.07
BN12GC06T	12	65	6	0.573	14.55	257.45	383.15
BN10GC02T	10	105	2	0.528	13.41	174.10	259.10
BN10GC03T	10	105	3	0.567	14.40	238.03	354.24
BN10GC04T	10	105	4	0.620	15.75	295.30	439.48
BN10GC05T	10	105	5	0.685	17.40	361.92	538.62
BN10GC06T	10	105	6	0.750	19.05	425.13	632.69

Standard conductor: Nickel Coated Copper-27%  
Consult factory for alternate 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 is not responsible for any claim traceable to such error.



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