

## RATINGS / APPROVALS

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

**538°C – 600 Volts** - temporary temperature rating for short 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

## 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

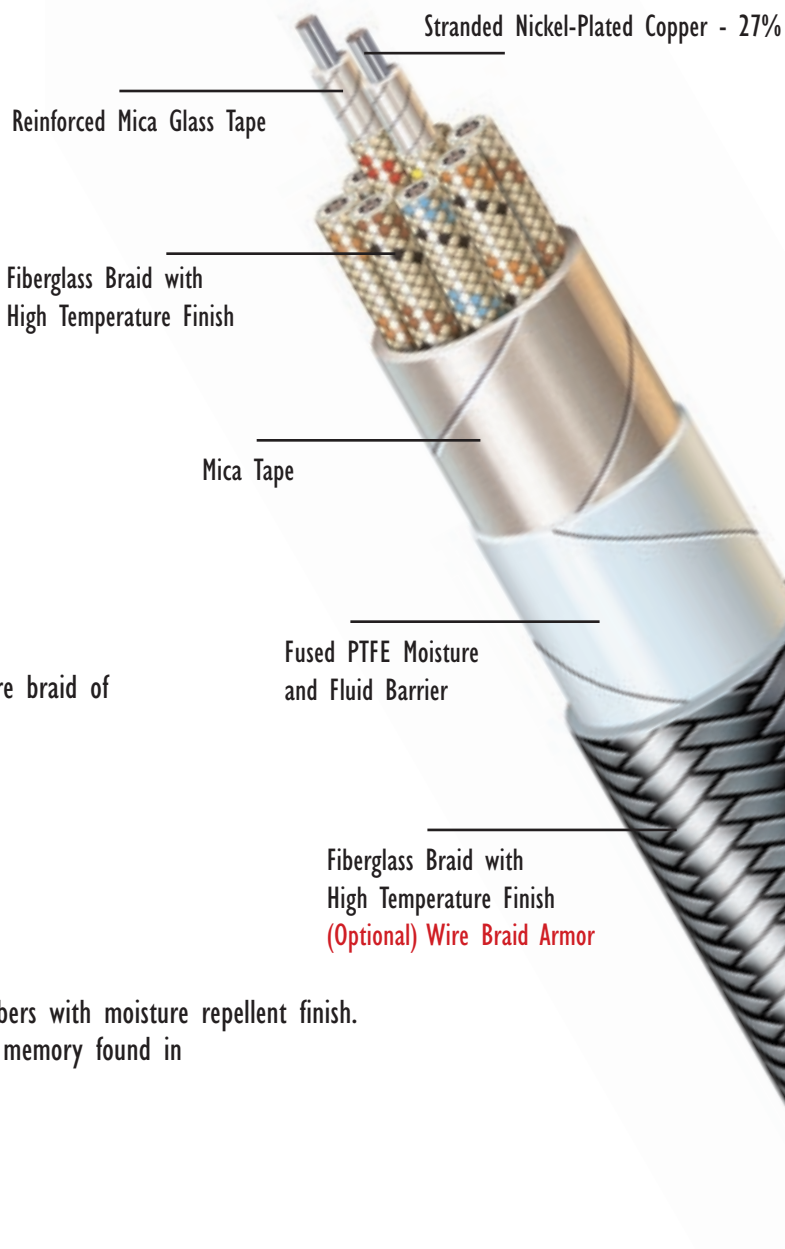
Black (Colors available)

## 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.

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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 Company, Inc. is not responsible for any claim traceable to such error.



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