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High Temperature Wire And Cable Solutions**

WiredIN to the World of INnovation

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- Specializing in high temperature 150° to 1000° C
- UL/CSA listed products
- Sizes up to 750MCM
- High voltage wire
- Innovative high temperature solutions
- Single lead wire and multi-conductor cables
- Technical assistance
- Short lead-times

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26000 Lakeland Blvd.
Cleveland, Ohio 44132

1.877.722.5444

email: info@radix-wire.com

150° to 250° C



- Sil-A-Blend®



- Braided/braidless Silicone rubber
- Teflon® (FEP/Tefzel-750/PFA)

450° C

- DuraFlex® 450
- MGT

550° C



- DuraFlex® 550
- INNOVATIVE 550° C UL/CSA listed

300 V/600 V and High Voltage

- Sil-A-Blend®
- Silicone
- Fluoropolymer

www.radix-wire.com

150C/300V and 150C/600V

BRAIDED SRML SILICONE I 50 HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

150°C – 300 Volts - UL Style 3068 / CSA AWM I A/B FT2

150°C – 600 Volts - UL Style 3231, 3101, 3127, 3069, 3070 / CSA AWM I A/B FT2

IEC 60332-1-2; 60332-1-3; and 60332-2-2 Vertical Flame Propagation

ROHS Compliant

CONSTRUCTION

Conductors

24 AWG – 16 AWG (300 Volt)

24 AWG – 4/0 AWG (600 Volt)

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Extruded Silicone Rubber

Outer Covering

Braided fiberglass with a high temperature finish

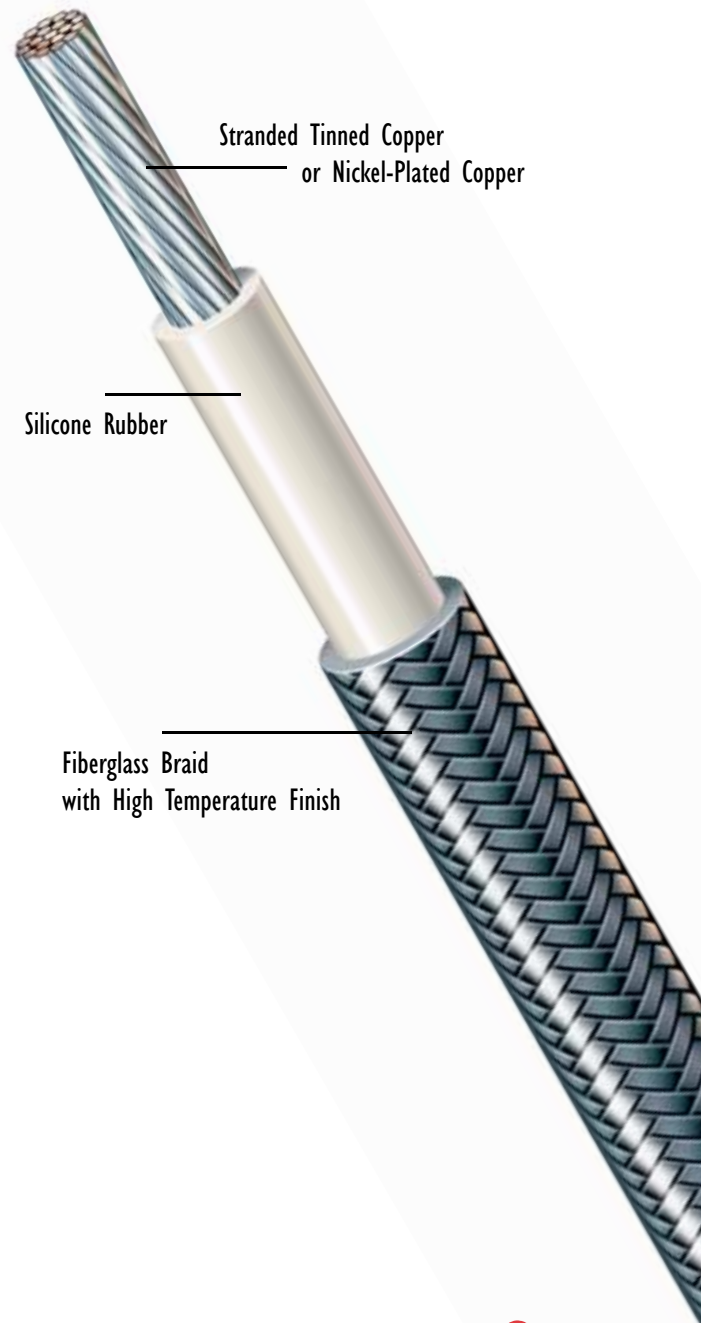
Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Silicone Rubber in extreme environments, exceeding 200°C, leaves a non-conductive ash and retains excellent insulation properties.

UL VW-I optional (consult factory)



Radix™

Revised 3/14

Radix Wire
26000 Lakeland Boulevard • Cleveland, OH 44132
Tel: 216 731-9191 • Fax: 216 731-7082
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SPECIFICATIONS

BRAIDED SRML SILICONE I 50 HIGH-TEMPERATURE LEAD WIRE

BRAIDED SILICONE 150C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
JBM24T007	24	7	0.068	1.83	3.96	5.89	3068	SEWF-1
JBM22T007	22	7	0.074	1.93	5.43	8.08	3068	SEWF-1
JBM20T007	20	7	0.080	2.08	6.83	10.16	3068	SEWF-1
JBM18T016	18	16	0.087	2.21	7.91	11.77	3068	SEWF-1
JBM16T026	16	26	0.097	2.62	13.08	19.46	3068	SEWF-1

BRAIDED SILICONE 150C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
JEM24T007	24	7	0.100	2.54	6.11	9.09	3231/3069	SEWF-2
JEM22T007	22	7	0.106	2.69	7.24	10.77	3231/3069	SEWF-2
JEM20T007	20	7	0.112	2.84	8.56	12.73	3231/3069	SEWF-2
JEM18T016	18	16	0.123	3.12	11.59	17.24	3231/3070*	SEWF-2
JEM16T026	16	26	0.132	3.35	15.29	22.75	3231/3070*	SEWF-2
JEM14T041	14	41	0.147	3.73	20.86	31.04	3231/3070*	SEWF-2
JEM12T065	12	65	0.163	4.14	29.38	43.72	3231/3070*	SEWF-2
JEM10T105	10	105	0.216	5.49	48.53	72.22	3231/3101*	SEWF-2
JEM08T133	8	133	0.309	7.85	87.19	129.76	3231*	SEWF-2
JEM06T133	6	133	0.355	9.02	124.12	184.72	3231*	SEWF-2

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

*Also referred to as **SRML**

® Registered trademark of Radix.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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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150C/600V

BRAIDLESS SILICONE 150 HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

150°C – 600 Volts - UL Style 3212, 3213, 3214 / CSA AWM I A/B FT2

UL VWI Flame rated (14 AWG – 4/0 AWG)

CONSTRUCTION

Conductors

24 AWG – 4/0 AWG

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Extruded Silicone Rubber

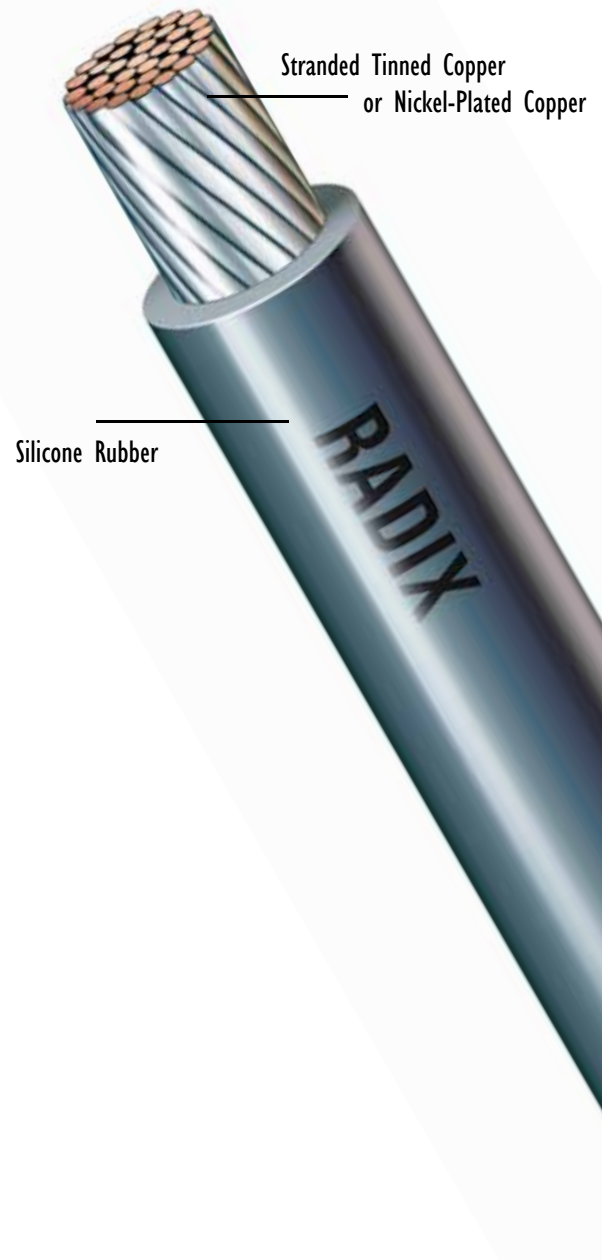
Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Superior flexibility.

150°C/300V (UL Style 3211) are available. (consult factory)



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SPECIFICATIONS

BRAIDLESS SILICONE 150 HIGH-TEMPERATURE LEAD WIRE

SILICONE BRAIDLESS 150C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
HDA22T007	22	7	0.124	3.15	8.11	12.07	3212	AWM I A/B FT2
HDA20T007	20	7	0.130	3.30	9.58	14.25	3212	AWM I A/B FT2
HDA18T016	18	16	0.139	3.53	12.06	17.94	3212	AWM I A/B FT2
HDA16T026	16	26	0.149	3.78	15.84	23.57	3212	AWM I A/B FT2
HDA14T041	14	41	0.165	4.19	22.06	32.83	3212	AWM I A/B FT2
HDA12T065	12	65	0.181	4.60	30.47	45.34	3212	AWM I A/B FT2
HDA10T105	10	105	0.204	5.18	44.33	65.97	3212	AWM I A/B FT2
HDA08T133	8	133	0.285	7.24	74.72	111.19	3213	AWM I A/B FT2
HDA06T133	6	133	0.331	8.41	110.10	163.85	3213	AWM I A/B FT2
HDA04T133	4	133	0.380	9.66	163.81	243.78	3213	AWM I A/B FT2
HDA02T259	2	259	0.451	11.46	249.93	371.95	3213	AWM I A/B FT2
HDA01T259	1	259	0.519	13.18	321.38	478.29	3214	AWM I A/B FT2
HDAX1T259	1/0	259	0.562	14.27	398.70	593.36	3214	AWM I A/B FT2
HDAX2T259	2/0	259	0.622	15.80	490.73	730.32	3214	AWM I A/B FT2
HDAX3T259	3/0	259	0.668	16.97	606.21	902.18	3214	AWM I A/B FT2
HDAX4T259	4/0	259	0.732	18.60	752.69	1120.18	3214	AWM I A/B FT2

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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ETFE 150(150 Tefzel® 750)

HIGH-TEMPERATURE LEAD WIRE

150C/600V

RATINGS / APPROVALS

150°C - 600 Volts - UL style 10126/10086 / CSA AWM I A/B FT I

CONSTRUCTION

Conductors

18 AWG - 6 AWG

Stranded tinned copper or nickel-plated copper
(optional conductor materials available)

Insulating System

Modified Ethylene Tetrafluoroethylene

Copolymer (*Tefzel® 750)

Standard Color Coding

Available in Colors

CHARACTERISTICS

- Outstanding chemical and fluid resistance
- Heat age and ozone treatment
- Easily stripped and terminated



Radix

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ETFE 150(Tefzel® 750)

HIGH-TEMPERATURE LEAD WIRE

SPECIFICATIONS

ETFE 150 (Tefzel® 750)

Part No.	Awg. Size	# Strands	Outer Dia. Inches	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
FOA18T016	18	16	0.068	6.51	9.69	10126	AWM I A/B FTI
FOA14T041	14	41	0.095	14.93	22.21	10126	AWM I A/B FTI
FOA12T065	12	65	0.133	11.91	17.76	10126	AWM I A/B FTI
FOA10T105	10	105	0.142	20.83	31.07	10126	AWM I A/B FTI
FOA08T133	8	133	0.212	67.33	30.54	10126	AWM I A/B FTI
FOA06T133	6	133	0.256	102.66	46.26	10126	AWM I A/B FTI



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All dimensions listed above are nominal

Compliance: UL Listed File No. E241484. Fire Directory R21213

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RATINGS / APPROVALS

200°C – 300 Volts - UL Style 3122 / CSA AWM I A/B FT2

200°C – 600 Volts - UL Style 3231, 3071, 3074, 3075 / CSA SEW-2 FT1

IEC 60332-1-2; 60332-1-3; and 60332-2-2 Vertical Flame Propagation

ROHS Compliant

CONSTRUCTION

Conductors

24 AWG – 16 AWG (300 Volt)

24 AWG – 4/0 AWG (600 Volts)

Stranded tinned copper or nickel-plated copper

(Other conductor materials available)

Insulating System

Extruded Silicone Rubber

Outer Covering

Braided fiberglass with a high temperature finish

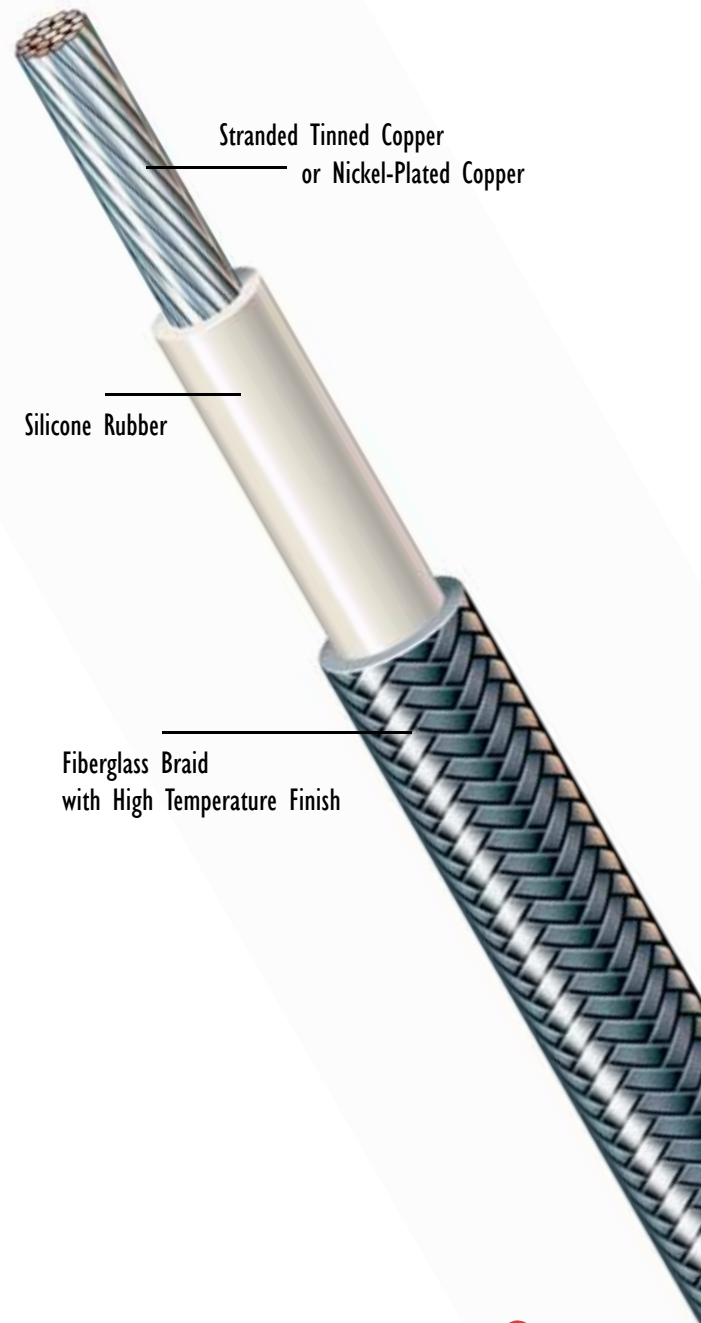
Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Silicone Rubber in extreme environments, exceeding 200°C, leaves a non-conductive ash and retains excellent insulation properties.

UL VW-I optional (consult factory)



Radix™

SPECIFICATIONS

BRAIDED SILICONE 200 HIGH-TEMPERATURE LEAD WIRE

BRAIDED SILICONE 200C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
JJM22P007	22	7	0.073	1.85	4.45	6.62	3122	AWM I A/B FT2
JJM20P007	20	7	0.080	2.03	5.77	8.59	3122	AWM I A/B FT2
JJM18T007	18	7	0.094	2.31	8.42	12.53	3122	AWM I A/B FT2
JJM16T007	16	7	0.100	2.54	11.34	16.88	3122	AWM I A/B FT2

BRAIDED SILICONE 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
JGM24P007	24	7	0.102	2.59	6.21	9.24	3231	SEWF-2
JGM22P007	22	7	0.106	2.69	7.44	11.07	3231/3172	SEWF-2
JGM20P010	20	10	0.111	2.82	8.67	12.90	3231/3172	SEWF-2
JFM18T007	18	7	0.124	3.15	11.65	17.33	3231/3071	SEW-2
JFM16T007	16	7	0.134	3.40	15.39	22.90	3231/3071	SEW-2
JFM14T007	14	7	0.149	3.78	21.02	31.28	3231/3071	SEW-2
JFM12T019	12	19	0.166	4.22	29.58	44.02	3231	SEW-2
JFM10T019	10	19	0.220	5.59	48.75	72.55	3231	SEW-2
JFM08T061	8	61	0.290	7.37	84.41	125.62	3231	SEW-2
JFM06T084	6	84	0.361	9.16	124.88	185.85	3231	SEW-2
JFM04T133	4	133	0.404	10.26	179.39	266.97	3231*	SEW-2
JFM02T259	2	259	0.477	12.12	272.03	404.84	3231*	SEW-2
JFM01T259	1	259	0.545	13.84	347.39	516.99	3231*	SEW-2
JFMX1T259	1/0	259	0.608	15.44	427.44	636.13	3231*	SEW-2
JFMX2T259	2/0	259	0.648	16.46	521.13	775.56	3231*	SEW-2
JFMX3T259	3/0	259	0.694	17.63	638.59	950.37	3231*	SEW-2
JFMX4T259	4/0	259	0.758	19.25	787.92	1172.61	3231*	SEW-2

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)

Consult factory for alternate conductor and stranding options.

*Also referred to as **SRML**

All dimensions and weights shown are nominal, subject to industry tolerances.

® Registered trademark of Radix.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LLI3427 or LL80670

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200C/600V

BRAIDLESS SILICONE 200 HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

200°C – 600 Volts - UL Style 3530, 3135, 3268, 3512 / CSA AWM

CONSTRUCTION

Conductors

24 AWG – 250 MCM

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Extruded Silicone Rubber

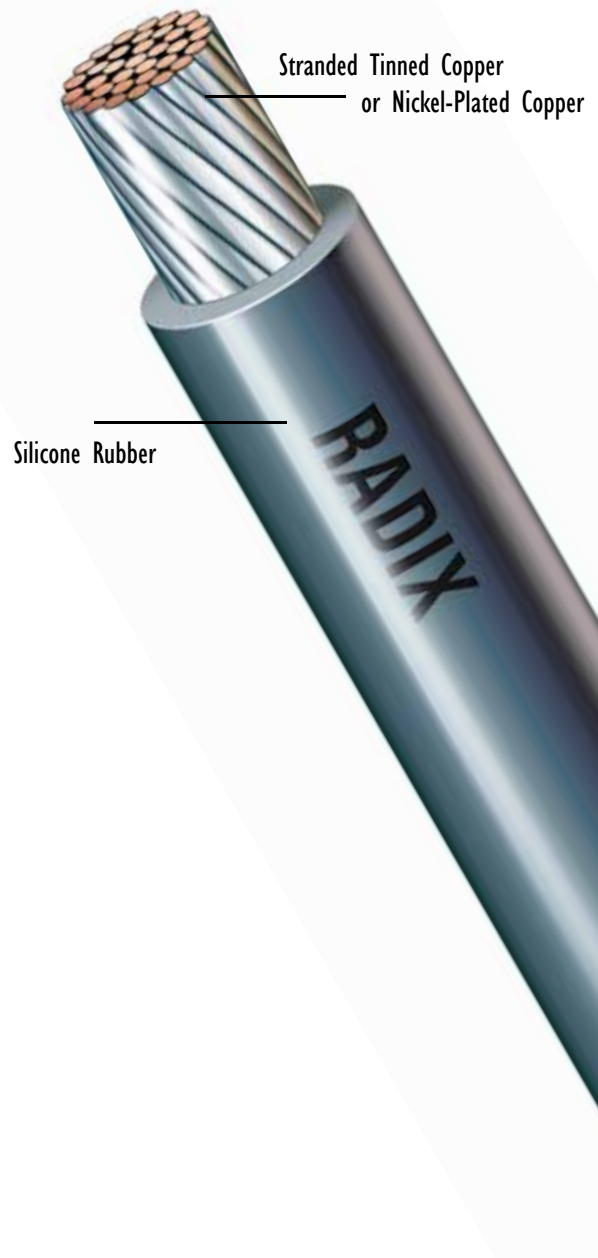
Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Superior flexibility.

150°C version with flexible stranded conductor (UL Style 3529, 3133, 3134)
and 200°C/300V (UL Style 3367) are available. (consult factory)



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SPECIFICATIONS

BRAIDLESS SILICONE 200 HIGH-TEMPERATURE LEAD WIRE

BRAIDLESS SILICONE 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
JDA24P007	24	7	0.086	2.18	4.42	6.57	3530/3135/3512	AWM I A FT2
JDA22P007	22	7	0.092	2.34	5.57	8.28	3530/3135/3512	AWM I A FT2
JDA20P007	20	7	0.099	2.51	6.86	10.20	3530/3135/3512	AWM I A FT2
JDA18T007	18	7	0.108	2.74	9.25	13.76	3530/3135/3268 3512	AWM I A FT2
JDA16T007	16	7	0.120	3.05	12.84	19.10	3530/3135/3268 3512	AWM I A FT2
JDA14T007	14	7	0.135	3.43	18.41	27.39	3530/3135/3268 3512	AWM I A FT2
JDA12T019	12	19	0.152	3.86	26.84	39.94	3530/3135/3268 3512	AWM I A FT2
JDA10T019	10	19	0.208	5.28	45.49	67.70	3530/3512	AWM I A/B FT2
JDA08T061	8	61	0.266	6.76	81.44	121.20	3530/3512	AWM I A/B FT2
JDA06T084	6	84	0.337	8.55	113.96	169.60	3530/3512	AWM I A/B FT2
JDA04T133	4	133	0.380	9.65	167.58	249.39	3530/3512	AWM I A/B FT2
JDA02T259	2	259	0.451	11.46	254.59	378.88	3530/3512	AWM I A/B FT2
JDA01T259	1	259	0.519	13.18	328.15	488.36	3530/3512	AWM I A/B FT2
JDAX1T259	1/0	259	0.562	14.27	385.57	573.79	3530/3512	AWM I A/B FT2
JDAX2T259	2/0	259	0.602	15.29	471.83	702.16	3530/3512	AWM I A/B FT2
JDAX3T259	3/0	259	0.657	16.69	581.87	865.92	3530/3512	AWM I A/B FT2
JDAX4T259	4/0	259	0.717	18.21	720.49	1072.21	3530/3512	AWM I A/B FT2
JDA25T427	250 MCM	427	0.841	21.36	928.48	1381.79	3530	AWM I A/B FT2

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)
Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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200C/300V, 200C/600V
AND 200C/1,000V

DuraBlend® 200
HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

200°C – 300 Volts - UL Style 3919/3586 / CSA AWM I A/B FT2

200°C – 600 Volts - UL Style 3772 / CSA AWM I A/B FT2

200°C – 1000 Volts - UL Style 3788 / CSA AWM I A/B FT2

CONSTRUCTION

Conductors

22 AWG – 16 AWG (300V)

22 AWG – 4/0 AWG (600V, 1000V)

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Separator tape between conductor and silicone on sizes 10awg to 4/0 on UL Style 3788 only. (Not shown in illustration)

Composite Extruded Silicone Rubber with intermediate fiberglass reinforcement

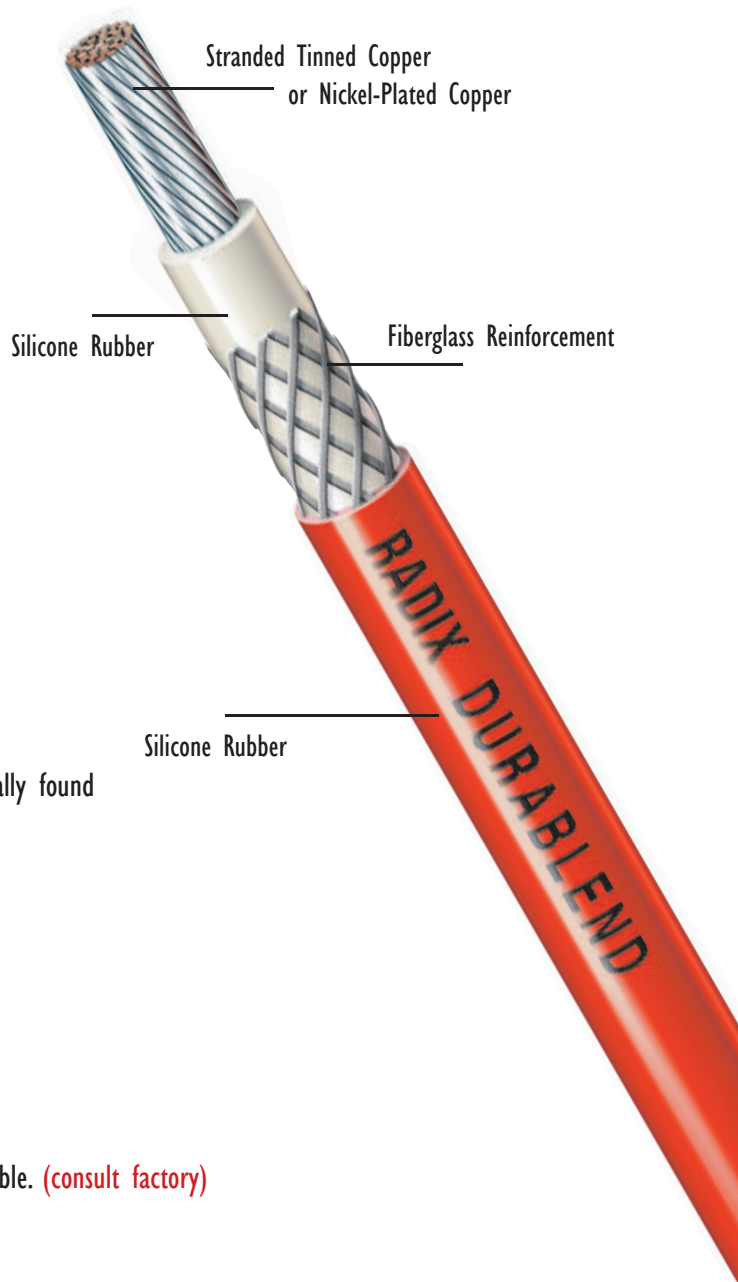
Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Smaller diameter, lighter weight, tighter bend radius
 - ~ Intermediate fiberglass reinforcement
 - ~ Eliminates braid fraying, flowering and shrink back
 - ~ Virtually eliminates dermatitis
 - ~ Significantly reduces airborne fiberglass contaminants traditionally found in high volume processing
 - ~ Superior flexibility
 - ~ Color stable at elevated temperatures
 - ~ LSZH - Low Smoke Zero Halogen
- Silicone formulations suitable for UV, ozone or moisture exposure
- Not suited for liquid immersed applications
- Suitable for applications down to -60°C
- UL VW-I flame rating

150°C version with flexible stranded conductor (UL Style 3771) is available. (consult factory)



Radix™

SPECIFICATIONS

DuraBlend® 200 HIGH-TEMPERATURE LEAD WIRE

DuraBlend® 200C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NNA22P007	22	7	0.066	1.68	3.91	5.82	3919	AWM I A/B FT2
NNA20P007	20	7	0.073	1.85	5.13	7.63	3919	AWM I A/B FT2
NNA18T007	18	7	0.082	2.08	7.21	10.73	3919	AWM I A/B FT2
NNA16T007	16	7	0.094	2.39	10.50	15.63	3919	AWM I A/B FT2

DuraBlend® 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NPA22P007	22	7	0.080	2.04	4.75	7.07	3772	AWM I A/B FT2
NPA20P007	20	7	0.087	2.20	6.04	8.99	3772	AWM I A/B FT2
NPA18T007	18	7	0.096	2.44	8.23	12.25	3772	AWM I A/B FT2
NPA16T007	16	7	0.108	2.74	11.67	17.37	3772	AWM I A/B FT2
NPA14T007	14	7	0.123	3.12	17.04	25.36	3772	AWM I A/B FT2
NPA12T019	12	19	0.140	3.56	25.23	37.55	3772	AWM I A/B FT2
NPA10T019	10	19	0.164	4.17	38.15	56.78	3772	AWM I A/B FT2

DuraBlend® 200C/600/1000V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NQA08T061	8	61	0.212	5.38	63.44	94.42	3772/3788	AWM I A/B FT2
NQA06T084	6	84	0.313	7.94	105.81	157.47	3772/3788	AWM I A/B FT2
NQA04T133	4	133	0.356	9.04	158.22	235.47	3772/3788	AWM I A/B FT2
NQA02T259	2	259	0.427	10.85	243.27	362.04	3772/3788	AWM I A/B FT2
NQA01T259	1	259	0.499	12.67	315.90	470.13	3772/3788	AWM I A/B FT2
NQAX1T259	1/0	259	0.544	13.82	371.06	552.20	3772/3788	AWM I A/B FT2
NQAX2T259	2/0	259	0.590	14.99	458.20	681.88	3772/3788	AWM I A/B FT2
NQAX3T259	3/0	259	0.639	16.23	567.04	843.85	3772/3788	AWM I A/B FT2
NQAX4T259	4/0	259	0.699	17.75	704.20	1047.97	3772/3788	AWM I A/B FT2

DuraBlend® 200C/1000V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NQA18T007	18	7	0.102	2.59	8.74	13.01	3788	AWM I A/B FT2
NQA16T007	16	7	0.114	2.90	12.25	18.23	3788	AWM I A/B FT2
NQA14T007	14	7	0.129	3.28	17.69	26.33	3788	AWM I A/B FT2
NQA12T019	12	19	0.146	3.71	25.98	38.66	3788	AWM I A/B FT2
NQA10T019	10	19	0.170	4.32	39.02	58.08	3788	AWM I A/B FT2

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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200C/300V and 200C/600V

FEP 200

HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

200°C - 300 Volts - UL Style 1332 / CSA 180°C AWM I A/B FTI

200°C - 600 Volts - UL Style 1330 / CSA 180°C AWM I A/B FTI

RoHS Compliant

Passes UL VWI Flame Test

CONSTRUCTION

Conductors

24 AWG - 2/0 AWG

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Extruded Fluorinated Ethylene Propylene (FEP)

Standard Color Coding

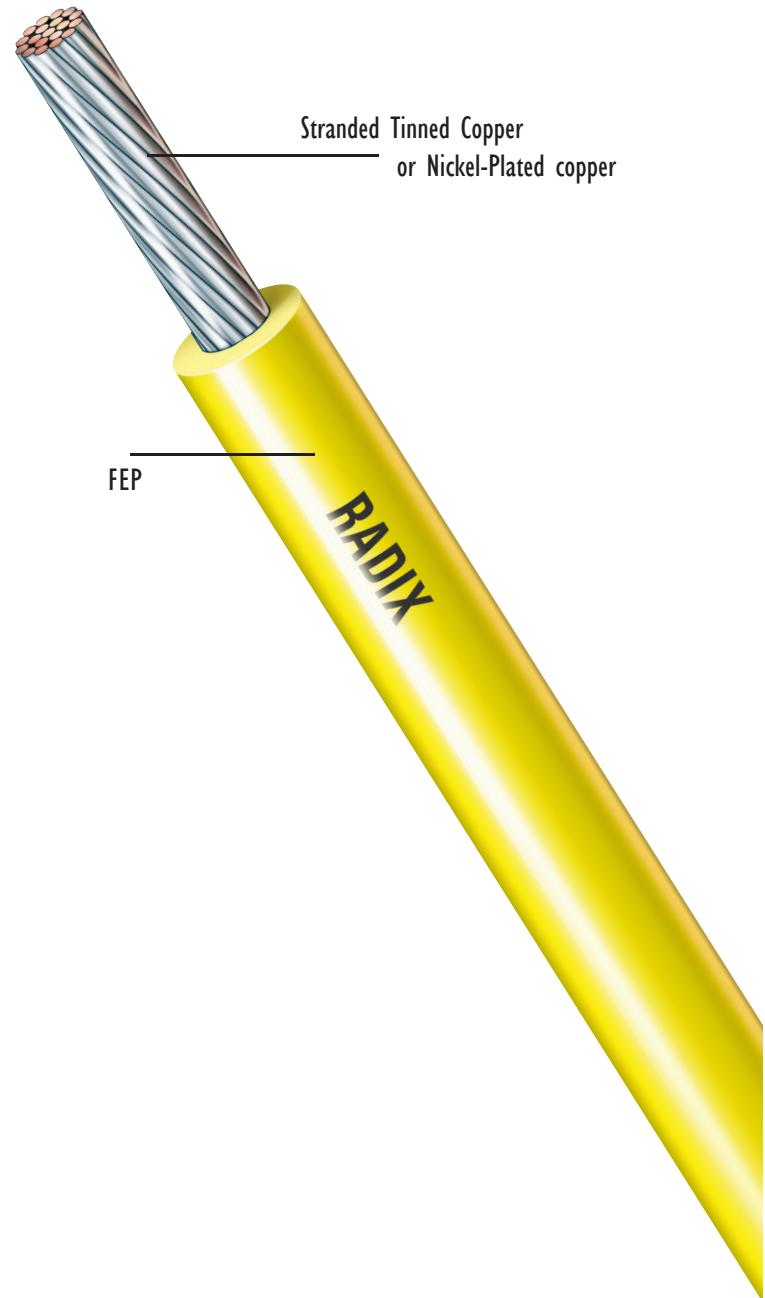
Available in Colors

CHARACTERISTICS

- Outstanding chemical and fluid resistance.
- Easily stripped and terminated.
- Heat age and ozone resistant.
- Mechanical toughness and low coefficient of friction allows "pull" installation of long wire lengths.
- Smaller outside diameter than equivalent silicone rubber products.

150°C version with flexible stranded conductor

(UL Styles 1333 and 1331) are available. (consult factory)



Radix™

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SPECIFICATIONS

FEP 200 HIGH-TEMPERATURE LEAD WIRE

FEP 200C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA 180C
FFA24P007	24	7	0.052	1.32	2.96	4.40	I332	AWM I A/B FT I
FFA22P007	22	7	0.058	1.47	3.90	5.80	I332	AWM I A/B FT I
FFA20P007	20	7	0.064	1.63	5.15	7.66	I332	AWM I A/B FT I
FFA18T007	18	7	0.074	1.88	7.46	11.10	I332	AWM I A/B FT I
FFA16T007	16	7	0.086	2.18	10.95	16.29	I332	AWM I A/B FT I
FFA14T007	14	7	0.101	2.57	16.27	24.21	I332	AWM I A/B FT I
FFA12T019	12	19	0.119	3.02	24.30	36.16	I332	AWM I A/B FT I
FFA10T019	10	19	0.142	3.61	37.45	55.73	I332	AWM I A/B FT I

FEP 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA 180C
FHA24P007	24	7	0.066	1.68	4.17	6.20	I330	AWM I A/B FT I
FHA22P007	22	7	0.072	1.83	5.24	7.79	I330	AWM I A/B FT I
FHA20P007	20	7	0.078	1.98	6.61	9.83	I330	AWM I A/B FT I
FHA18T007	18	7	0.087	2.21	9.06	13.48	I330	AWM I A/B FT I
FHA16T007	16	7	0.100	2.54	12.86	19.13	I330	AWM I A/B FT I
FHA14T007	14	7	0.115	2.92	18.48	27.50	I330	AWM I A/B FT I
FHA12T019	12	19	0.132	3.35	27.03	40.22	I330	AWM I A/B FT I
FHA10T019	10	19	0.156	3.96	40.40	60.12	I330	AWM I A/B FT I
FHA08T061	8	61	0.202	5.13	68.31	101.66	I330	AWM I A/B FT I
FHA06T084	6	84	0.273	6.93	104.71	155.83	I330	AWM I A/B FT I
FHA04T133	4	133	0.316	8.03	157.27	234.05	I330	AWM I A/B FT I
FHA02T259	2	259	0.387	9.83	242.63	361.08	I330	AWM I A/B FT I
FHA01T259	1	259	0.451	11.45	319.48	475.46	I330	AWM I A/B FT I
FHAX1T259	1/0	259	0.518	13.05	397.20	591.12	I330	AWM I A/B FT I
FHAX2T259	2/0	259	0.554	14.08	489.48	728.46	I330	AWM I A/B FT I

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper - 2%)
Consult factory for alternative conductor and stranding options.

All dimensions listed above are nominal
Compliance: UL Listed File No. E22244. CSA Certified File No. LL13427 or LL80670
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RATINGS / APPROVALS

200°C – 600 Volts - UL Style 3512 / 3604 / CSA AWM I A FT2

CONSTRUCTION**Conductors**

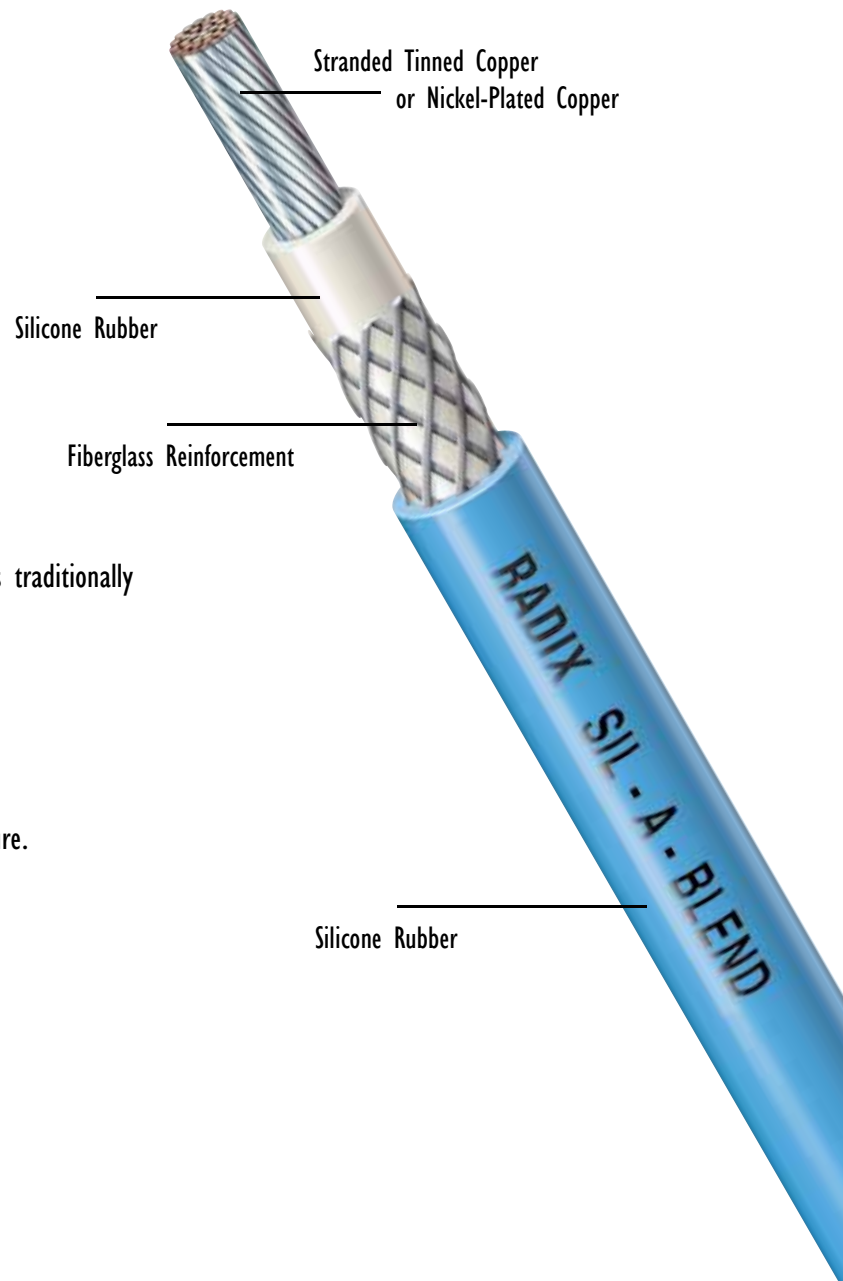
22 AWG – 14 AWG

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)**Insulating System**Composite Extruded Silicone Rubber with
intermediate fiberglass reinforcement**Standard Color Coding**

Available in Colors

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Eliminates braid fraying, flowering and shrink back.
 - ~ Virtually eliminates skin irritation.
 - ~ Significantly Reduces airborne fiberglass contaminants traditionally found in high volume processing.
 - ~ Superior flexibility.
 - ~ Color stable at elevated temperatures.
 - ~ Low smoke.
 - ~ Suitable for varnish dip and bake applications.
 - ~ Smaller OD
- Silicone formulations suitable for UV, ozone, moisture exposure.
Not suited for immersed applications.
- Suitable for applications to -60°C



Radix Wire Company

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SPECIFICATIONS

SIL-A-BLEND[®] 200 SD HIGH-TEMPERATURE LEAD WIRE

SIL-A-BLEND 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NBA22P007- OD01	22	7	0.093	2.37	6.09	9.02	3512	AWM I A FT2
NBA20P007- OD01	20	7	0.100	2.53	7.48	11.08	3512	AWM I A FT2
NBA18T007- OD01	18	7	0.109	2.77	9.82	14.53	3512	AWM I A FT2
NBA16T007- OD01	16	7	0.121	3.07	13.45	19.91	3512	AWM I A FT2
NBA14T007- OD01	14	7	0.136	3.45	19.05	28.19	3512	AWM I A FT2
NBA12T019- OD01	12	19	0.160	4.06	28.4	42.26	3512	AWM I A FT2

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)
Consult factory for alternate conductor and stranding options.

© Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

200°C – 600 Volts - UL Style 3512 / 3604 / CSA AWM I A/B FT2

200°C – 1,000 Volts - UL Style 3644 / CSA AWM I A/B FT2

CONSTRUCTION

Conductors

22 AWG – 4/0 AWG

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Separator tape between conductor and silicone on sizes 10awg to 4/0 on UL Style 3644 only. (Not shown in illustration)

Composite Extruded Silicone Rubber with intermediate fiberglass reinforcement

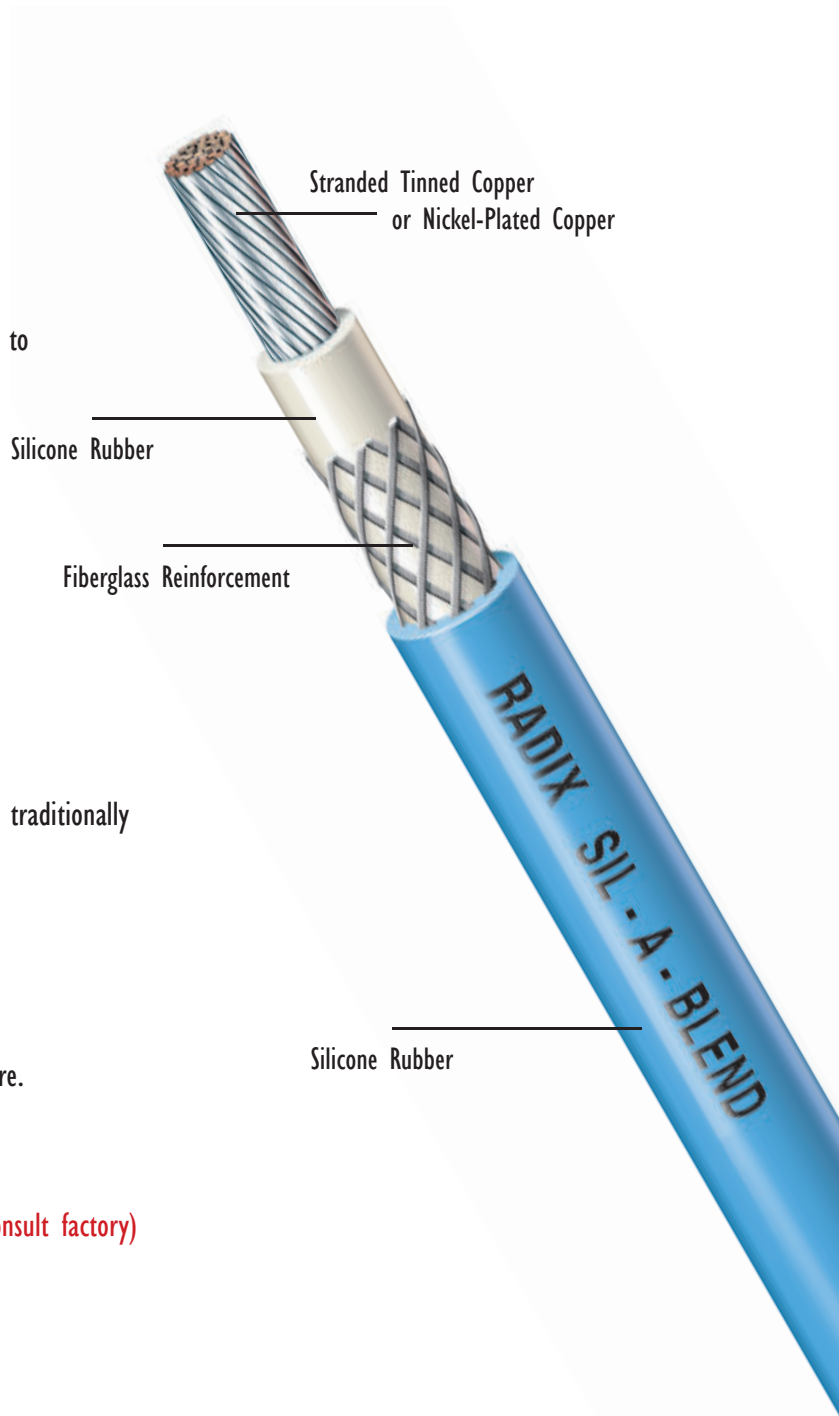
Standard Color Coding

Available in Colors

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Eliminates braid fraying, flowering and shrink back.
 - ~ Virtually eliminates skin irritation.
 - ~ Significantly Reduces airborne fiberglass contaminants traditionally found in high volume processing.
 - ~ Superior flexibility.
 - ~ Color stable at elevated temperatures.
 - ~ LSZH - Low Smoke Zero Halogen.
 - ~ Suitable for varnish dip and bake applications.
 - ~ Smaller OD
- Silicone formulations suitable for UV, ozone, moisture exposure.
Not suited for immersed applications.
- Suitable for applications to -60°C

150°C version with flexible stranded conductor is available. (consult factory)



SPECIFICATIONS

SIL-A-BLEND® 200 HIGH-TEMPERATURE LEAD WIRE

SIL-A-BLEND 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
NBA22P007	22	7	0.100	2.54	6.61	9.83	3512/3604	AWM I A/B FT2
NBA20P007	20	7	0.110	2.79	8.36	12.44	3512/3604	AWM I A/B FT2
NBA18T007	18	7	0.121	3.07	11.34	16.87	3512/3604	AWM I A/B FT2
NBA16T007	16	7	0.134	3.40	14.38	21.40	3512/3604	AWM I A/B FT2
NBA14T007	14	7	0.140	3.55	19.75	29.39	3512/3604	AWM I A/B FT2
NBA12T019	12	19	0.166	4.22	28.52	42.44	3512/3604	AWM I A/B FT2
NBA10T019	10	19	0.215	5.46	47.30	70.39	3512/3604	AWM I A/B FT2
NBA08T061	8	61	0.254	6.45	72.95	108.56	3512/3604	AWM I A/B FT2
NBA06T084	6	84	0.347	8.81	118.18	175.87	3512/3604	AWM I A/B FT2
NBA04T133	4	133	0.381	9.67	161.70	240.64	3512/3604	AWM I A/B FT2
NBA02T259	2	259	0.446	11.33	239.70	356.70	3512/3604	AWM I A/B FT2
NBA01T259	1	259	0.521	13.23	310.44	462.00	3512/3604	AWM I A/B FT2
NCAX1T259	1/0	259	0.576	14.63	391.31	582.33	3604	AWM I A/B FT2
NCAX2T259	2/0	259	0.622	15.80	482.18	717.56	3604	AWM I A/B FT2
NCAX3T259	3/0	259	0.671	17.04	590.86	879.30	3604	AWM I A/B FT2
NCAX4T259	4/0	259	0.731	18.57	730.23	1086.70	3604	AWM I A/B FT2

SIL-A-BLEND 200C/1000V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
NGA18T007	18	7	0.121	3.07	11.34	16.87	3644	AWM I A/B FT2
NGA16T007	16	7	0.134	3.40	14.38	21.40	3644	AWM I A/B FT2
NGA14T007	14	7	0.140	3.55	19.75	29.39	3644	AWM I A/B FT2
NGA12T019	12	19	0.166	4.22	28.52	42.44	3644	AWM I A/B FT2
NGA10T019	10	19	0.215	5.46	47.30	70.39	3644	AWM I A/B FT2
NGA08T061	8	61	0.254	6.45	72.95	108.56	3644	AWM I A/B FT2
NGA06T084	6	84	0.347	8.81	118.18	175.87	3644	AWM I A/B FT2
NGA04T133	4	133	0.381	9.67	161.70	240.64	3644	AWM I A/B FT2
NGA02T259	2	259	0.446	11.33	239.70	356.70	3644	AWM I A/B FT2
NGA01T259	1	259	0.521	13.23	310.44	462.00	3644	AWM I A/B FT2
NGAX1T259	1/0	259	0.576	14.63	391.31	582.33	3644	AWM I A/B FT2
NGAX2T259	2/0	259	0.622	15.80	480.18	714.59	3644	AWM I A/B FT2
NGAX3T259	3/0	259	0.671	17.04	590.85	879.28	3644	AWM I A/B FT2
NGAX4T259	4/0	259	0.731	18.57	730.23	1086.70	3644	AWM I A/B FT2

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)

Consult factory for alternate conductor and stranding options.

©Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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200C/600V

SRGT HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

200°C - 600 Voltz - UL 3568

Maintains circuit integrity for 2.5 hrs under flame test conditions as required by IEEE-383 modified 210,000 BTU/hr method.

CONSTRUCTION

Conductors

18 AWG. – 2 AWG

8 AWG and larger: Flexible stranded, annealed tinned copper

10 AWG and smaller: Nickel-plated copper

Insulating System

Extruded Silicone Rubber

Conductor Covering

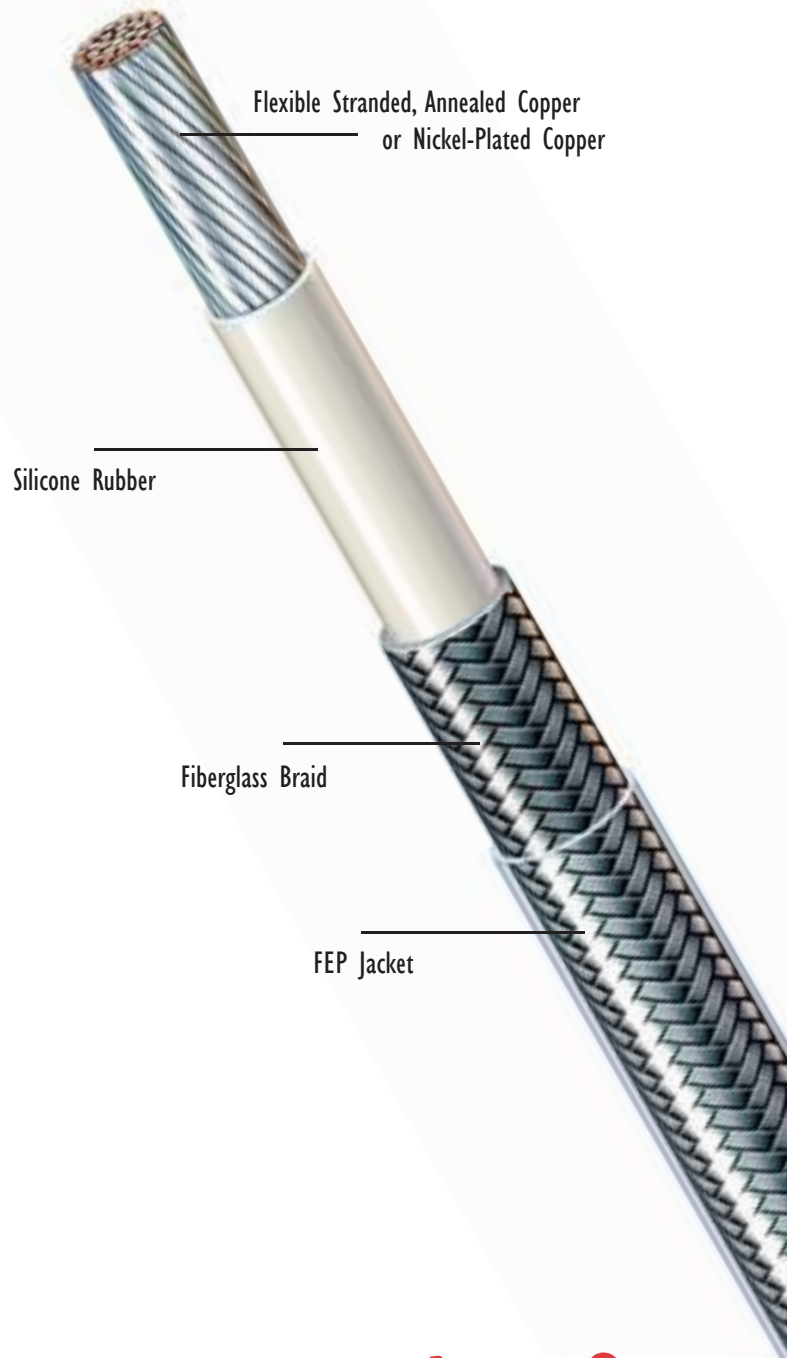
Closely woven fiberglass braid covering color coded as requested. (Standard: White)

Jacket

Extruded clear fluorinated ethylene propylene (FEP)

CHARACTERISTICS

- Moisture, cut-through, abrasion resistance
- Superior resistance to oil, most acids and other fluids
- Flexible
- Fire resistant and low smoke characteristics



Radix™

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SRGT 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
KFA18C016	18	16	0.147	3.73	15.30	22.77	n/a	n/a
KFA16C016	16	26	0.159	4.04	19.68	29.29	n/a	n/a
KFA14C016	14	41	0.173	4.39	25.91	38.56	n/a	n/a
KFA12C016	12	65	0.193	4.90	35.90	53.43	n/a	n/a
KFA10C016	10	105	0.250	6.35	58.71	87.37	n/a	n/a
KFA08C016	8	133	0.306	7.77	88.82	132.19	n/a	n/a

Standard conductor: Flexible Stranded, Annealed Tinned Copper (8 AWG and larger) and Nickel Plated Copper (10 AWG and smaller)
Consult factory for alternate conductor and stranding options.

© Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

150°C – 600 Volts - UL Style 3410

200°C – 600 Volts - UL Style 3410

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Vertical Flame Test

Silicone rubber insulation meets requirements of NEMA WC-3

RoHS Compliant

CONSTRUCTION

Conductors

24 AWG – 500 MCM

Stranded tinned copper

Insulating System

Extruded silicone rubber

Outer Covering

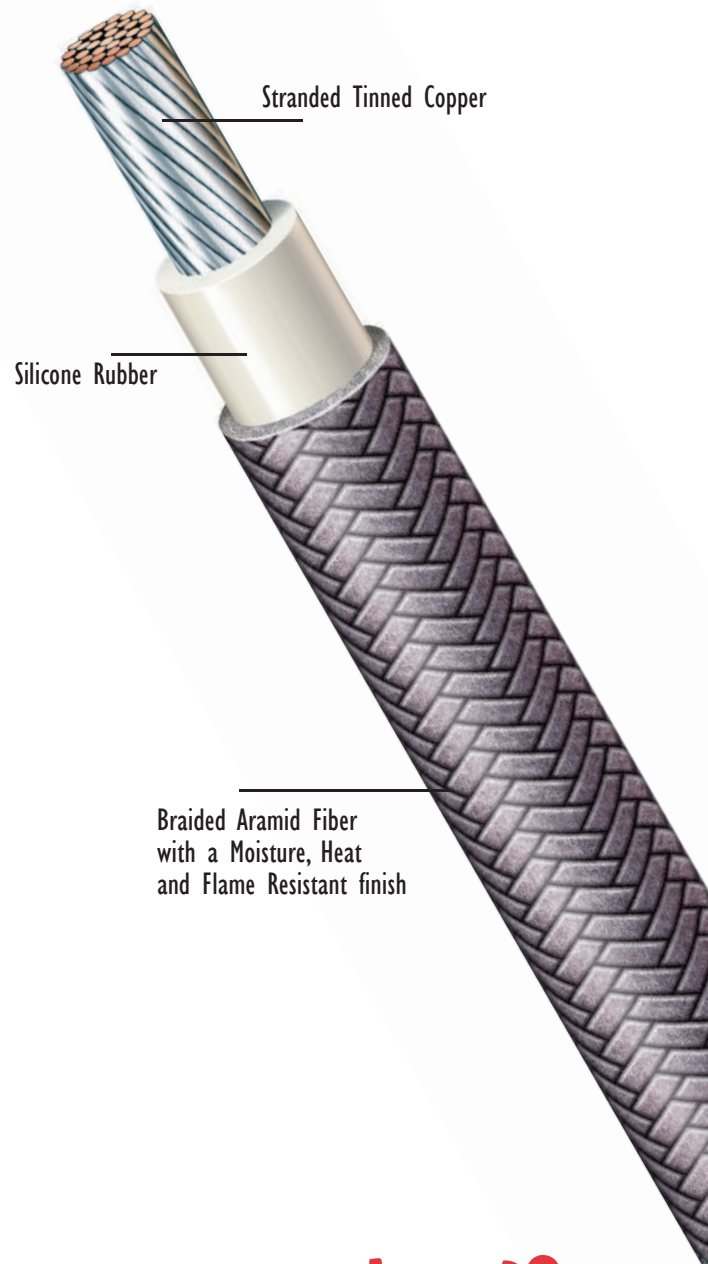
Braided aramid fiber with a moisture, heat and flame resistant finish

Standard Color Coding

Black - optional colors available

CHARACTERISTICS

- Superior cut-through, impact, and abrasion resistance.
- The braided aramid fiber provides excellent mechanical protection.
- Moisture resistant.
- Aramid fibers are aromatic polyaramids produced by DuPont. Two versions are known as Kevlar® and Nomex®. These materials have excellent environmental and thermal stability, fatigue resistance, and impact resistance.
- Silicone Rubber in extreme environments, exceeding 200°C, leaves a non-conductive ash and retains excellent insulation properties.



Radix™

SPECIFICATIONS

SRML-K 150/200 MOTOR LEAD & APPARATUS WIRE

SRML-K 150C/600V

Part No.	Awg. Size	Strand	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
KGG16T026	16	26	0.179	4.55	19.88	29.58	3410
KGG14T041	14	41	0.195	4.94	26.03	38.73	3410
KGG12T065	12	65	0.211	5.36	35.41	52.70	3410
KGG10T105	10	105	0.234	5.94	49.77	74.07	3410
KGG08T133	8	133	0.325	8.26	85.47	127.20	3410
KGG06T133	6	133	0.371	9.42	122.55	182.38	3410

SRML-K 200C/600V

Part No.	Awg. Size	Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
KGG14T007	14	7	0.196	4.98	26.21	39.00	3410
KGG12T019	12	19	0.214	5.44	35.73	53.17	3410
KGG10T019	10	19	0.238	6.05	50.02	74.43	3410
KGG08T061	8	61	0.306	7.77	83.69	124.55	3410
KGG06T084	6	84	0.377	9.58	123.31	183.52	3410
KGG04T133	4	133	0.420	10.67	178.18	265.18	3410
KGG02T259	2	259	0.491	12.47	266.40	396.47	3410
KGG01T019	1	19	0.534	13.56	334.93	498.45	3410
KGG01T259	1	259	0.559	14.20	341.97	508.92	3410
KGGX1T259	1/0	259	0.630	16.00	425.32	632.98	3410
KGGX2T259	2/0	259	0.670	17.02	518.58	771.77	3410
KGGX3T259	3/0	259	0.714	18.14	635.53	945.82	3410
KGGX4T259	4/0	259	0.778	19.76	784.19	1167.06	3410
KGG25T427	250 MCM	427	0.887	22.53	953.28	1418.70	3410
KGG35T427	350 MCM	427	1.002	25.45	1294.78	1926.93	3410
KGG50T427	500 MCM	427	1.165	29.59	1802.64	2682.75	3410
KGG75T703	750 MCM	703	1.372	34.84	2320.64	3453.47	3410

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

200°C – 300 Volts - UL Style 10109 / CSA AWM I A/B FTI

200°C – 600 Volts - UL Style 10086, 10412 / CSA AWM I A/B FTI

RoHS Compliant

CONSTRUCTION

Conductors

24 AWG – 6 AWG

Stranded tinned copper or nickel-plated copper
(Optional conductor materials available)

Insulating System

Modified ethylene tetrafluoroethylene
copolymer (*Tefzel® 750)

Standard Color Coding

Available in Colors

CHARACTERISTICS

- Outstanding chemical and fluid resistance.
- Heat age and ozone resistant.
- Easily stripped and terminated.

150°C version with flexible stranded conductor
(UL Styles 10125, 10126, and 10412) are available. (consult factory)

*Tefzel is a registered trademark of E.I. DuPont de Nemours



Radix™

SPECIFICATIONS

ETFE 200 (TEFZEL® 750) HIGH-TEMPERATURE LEAD WIRE

ETFE 200C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
FLA24P007	24	7	0.038	0.97	1.92	2.85	10109	AWM I A/B FT I
FLA22P007	22	7	0.044	1.12	2.93	4.36	10109	AWM I A/B FT I
FLA20P007	20	7	0.050	1.27	3.83	5.70	10109	AWM I A/B FT I
FLA18T007	18	7	0.060	1.52	5.89	8.77	10109	AWM I A/B FT I
FLA16T007	16	7	0.076	1.93	9.45	14.07	10109	AWM I A/B FT I
FLA14T007	14	7	0.091	2.31	14.48	21.55	10109	AWM I A/B FT I
FLA12T019	12	19	0.112	2.84	22.88	34.05	10109	AWM I A/B FT I

ETFE 200C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
FMA24P007	24	7	0.046	1.17	2.30	3.50	10086	AWM I A/B FT I
FMA22P007	22	7	0.052	1.32	3.19	4.74	10086	AWM I A/B FT I
FMA20P007	20	7	0.059	1.50	4.50	6.70	10086	AWM I A/B FT I
FMA18T007	18	7	0.068	1.73	6.51	9.69	10086	AWM I A/B FT I
FMA16T007	16	7	0.080	2.03	9.83	14.62	10086	AWM I A/B FT I
FMA14T007	14	7	0.095	2.41	14.93	22.21	10086	AWM I A/B FT I
FMA12T019	12	19	0.122	3.10	24.29	36.14	10086	AWM I A/B FT I
FMA10T019	10	19	0.146	3.71	37.11	55.23	10086	AWM I A/B FT I
FMA08T061	8	61	0.202	5.13	65.57	97.58	10086	AWM I A/B FT I
FMA06T084	6	84	0.273	6.93	100.83	150.05	10086	AWM I A/B FT I

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)
Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LLI3427 or LL80670

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www.radix-wire.com

SILICONE JACKETED CABLE:

RATINGS / APPROVALS

150°C/200°C – 600 Volts - UL Style 4389 / CSA AWM I A/B FT2

CONSTRUCTION

Stranded tinned copper (2 to 61 conductors) with braided silicone rubber insulation (braidless silicone rubber or Teflon® also available UL only) and extruded silicone rubber jacket.

HI-LITE CABLE:

RATINGS / APPROVALS

150°C – 300 Volts - UL Style 3522

200°C – 300 Volts - UL Style 4291 / CSA AWM I/II A/B FT2

CONSTRUCTION

Stranded tinned copper (2 conductors 16 or 18 AWG) with braided silicone rubber insulation and extruded silicone rubber jacket. Options for UL 4291: Twisted Kevlar, Aramid or polyester strength member laid parallel Insulated or uninsulated ground lead

PENDANT CABLE:

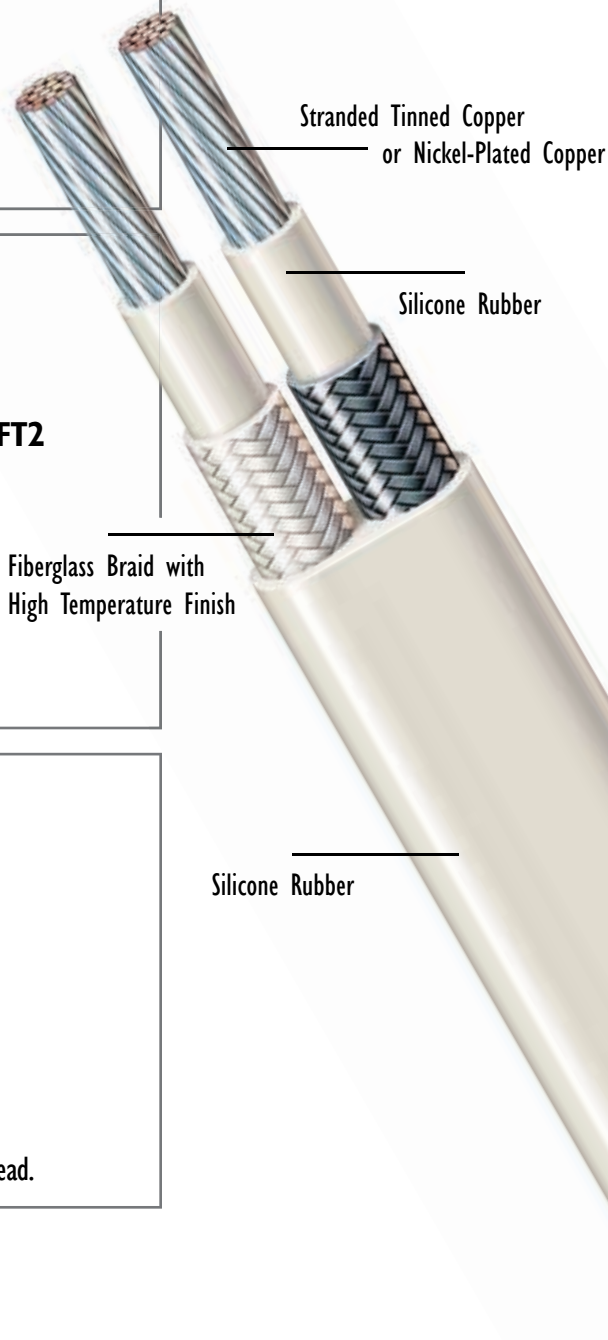
RATINGS / APPROVALS

150°C – 300 Volts - UL Style 4403

200°C – 600 Volts - UL Style 4452

CONSTRUCTION

Stranded tinned copper (2 conductors 16 or 18 AWG) with braided silicone rubber insulation and extruded silicone rubber jacket. Twisted Kevlar, Aramid or polyester strength member required. Optional Insulated or uninsulated ground lead.



CHARACTERISTICS FOR ABOVE CABLES

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C
- Silicone Rubber in extreme environments, exceeding 200°C, leaves a non-conductive ash and retains excellent insulation properties.
- Flexible

SPECIFICATIONS

UL SILICONE JACKETED HIGH-TEMPERATURE CABLES

SILICONE JACKETED CABLE 200C/600V

Part No.	Awg. size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
KKI4AT03A-0000-A5K20 (1)	14	7	3	0.451	11.46	109.50	162.96	4389	AWM I A/B FT2
KKI6AT03A-0000-A5K20 (1)	16	7	3	0.356	9.04	75.40	112.21	4389	AWM I A/B FT2
KKI8AT03A-0000-A5K20 (1)	18	7	3	0.323	8.20	54.60	81.26	4389	AWM I A/B FT2
KJI4AT03A-0000-A5K20 (2)	14	7	3	0.482	12.24	128.90	191.83	4389	AWM I A/B FT2
KJI6AT03A-0000-A5K20 (2)	16	7	3	0.386	9.80	85.54	127.30	4389	AWM I A/B FT2
KJI8AT03A-0000-A5K20 (2)	18	7	3	0.359	9.12	70.26	104.56	4389	AWM I A/B FT2
KKI4AT03A-CL01-A5K20 (3)	14	7	3	0.318	8.08	78.76	117.21	4389	AWM I A/B FT2
KKI6AT03A-CL01-A5K20 (3)	16	7	3	0.285	7.24	58.58	87.18	4389	AWM I A/B FT2
KKI8AT03A-CL01-A5K20 (3)	18	7	3	0.259	6.58	45.09	67.10	4389	AWM I A/B FT2

(1) Braidless silicone rubber insulated leads. (2) Braided silicone rubber insulated leads. (3) Teflon® insulated leads.

HI-LITE CABLE 150C/300V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
CMB18B168	18	168	2	0.268	6.81	36.89	54.90	3522
CNB18B168	18	168	2	0.164 x 0.266	4.17 x 6.76	29.55	43.97	3522

HI-LITE CABLE 200C/300V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
CPB18T007 / CQB18T007	18	7	2	0.158 x 0.254	4.01 x 6.45	28.90	43.01	4291	AWM I/II A/B FT2

PENDANT CABLE 150C/300V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
CSB18B168 / CTB18B168	18	168	2	0.268	6.81	37.57	55.91	4403

Standard conductor: Bare Copper (150C) and Tinned Copper (200C)
Consult factory for alternate conductor, number of leads and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 3254 / CSA AWM Class I A/B FT2

250°C – 600 Volts - UL Style 3252 / CSA AWM Class I A/B FT2

CONSTRUCTION

Conductors

24 AWG – 12 AWG (300 Volts)

24 AWG – 10 AWG (600 Volts)

Stranded nickel-plated copper

(Other conductor materials available)

Insulating System

Extruded Silicone Rubber with fiberglass braid

Outer Covering

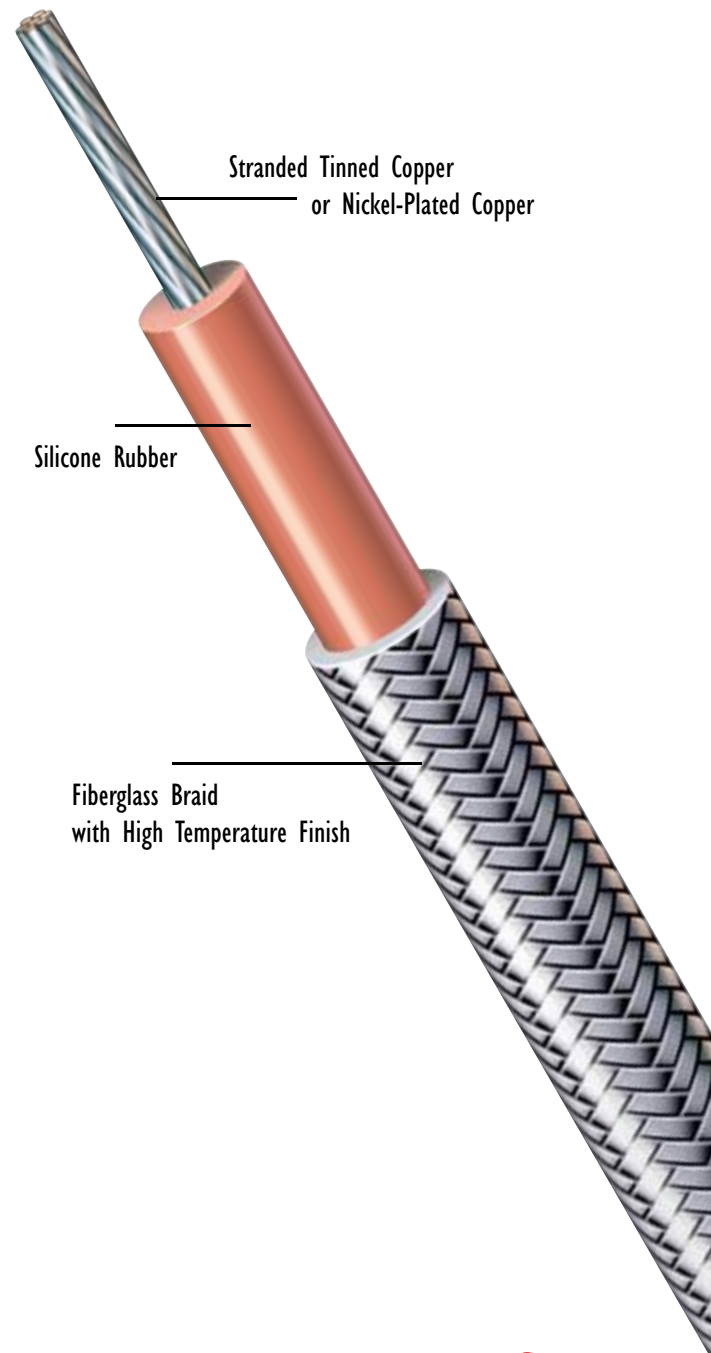
Braided fiberglass with a high temperature finish

Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Silicone Rubber in extreme environments, exceeding 250°C, leaves a non-conductive ash and retains excellent insulation properties.
- Flexible.



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www.radix-wire.com

SPECIFICATIONS

BRAIDED SILICONE 250 HIGH-TEMPERATURE LEAD WIRE

BRAIDED SILICONE 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
EGM22P007	22	7	0.106	2.69	7.42	11.04	3254	AWM I A FT2
EGM20P007	20	7	0.112	2.84	8.79	13.08	3254	AWM I A FT2
EGM18P019	18	19	0.118	3.00	11.10	16.51	3254	AWM I A FT2
EGM16P026	16	26	0.134	3.40	15.41	22.93	3254	AWM I A FT2
EGM14P041	14	41	0.149	3.78	20.95	31.17	3254	AWM I A FT2
EGM12P065	12	65	0.168	4.27	30.14	44.85	3254	AWM I A FT2

BRAIDED SILICONE 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
EIM22P007	22	7	0.106	2.69	7.42	11.04	3252	AWM I A FT2
EIM20P010	20	10	0.112	2.84	8.79	13.08	3252	AWM I A FT2
EIM18P019	18	19	0.116	3.00	11.10	16.51	3252	AWM I A FT2
EIM16P026	16	26	0.128	3.40	15.41	22.93	3252	AWM I A FT2
EIM14P041	14	41	0.144	3.78	20.95	31.17	3252	AWM I A FT2
EIM12P065	12	65	0.166	4.27	30.14	44.85	3252	AWM I A FT2
EIM10P105	10	105	0.187	4.75	43.97	65.43	3252	AWM I A FT2

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 3253 / CSA AWM I A/B FT2

250°C – 600 Volts - UL Style 3251 / CSA AWM I A/B FT2

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 10 AWG

Stranded nickel-plated copper

(Other conductor materials available)

Insulating System

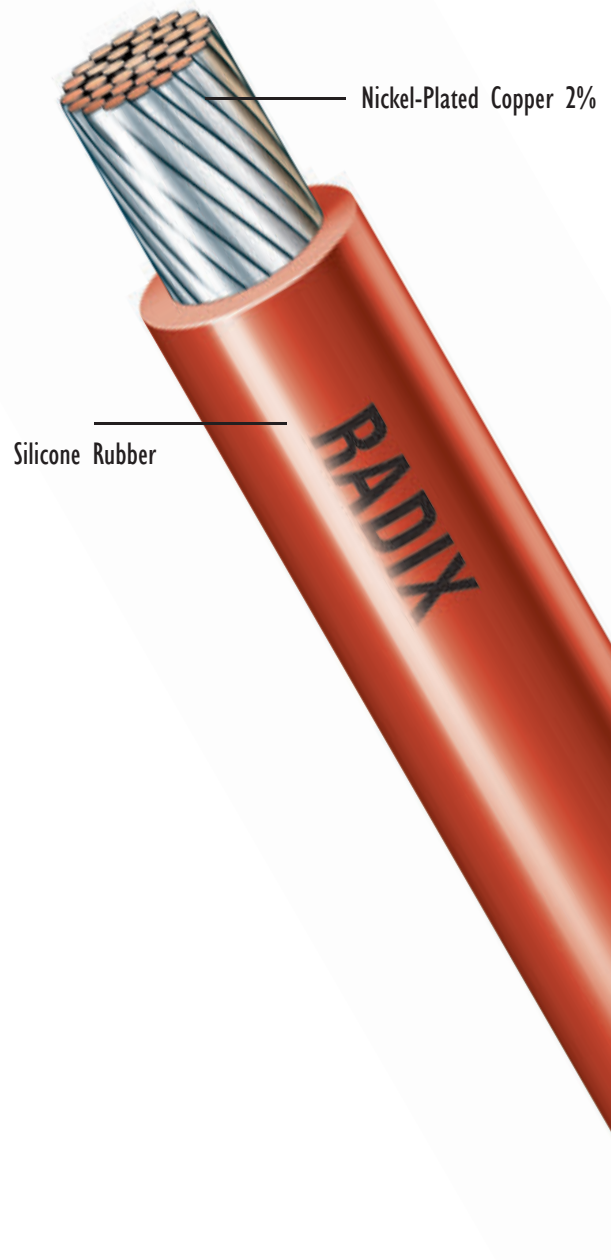
Extruded Silicone Rubber

Standard Color Coding

Iron Oxide Red with Colored Markings

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Superior flexibility.



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SPECIFICATIONS

BRAIDLESS SILICONE 250 HIGH-TEMPERATURE LEAD WIRE

BRAIDLESS SILICONE 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
EFA22P007	22	7	0.092	2.34	5.42	8.06	3253	AWM I A/B FT2
EFA20P007	20	7	0.098	2.49	6.75	10.04	3253	AWM I A/B FT2
EFA18P019	18	19	0.107	2.72	9.14	13.60	3253	AWM I A/B FT2
EFA16P026	16	26	0.118	3.00	12.74	18.96	3253	AWM I A/B FT2
EFA14P041	14	41	0.133	3.38	18.16	27.02	3253	AWM I A/B FT2
EFA12P065	12	65	0.152	3.86	27.19	40.46	3253	AWM I A/B FT2
EFA10P105	10	105	0.177	4.50	41.05	61.09	3253	AWM I A/B FT2

BRAIDLESS SILICONE 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
EHA22P007	22	7	0.124	3.15	8.46	12.59	3251	AWM I A/B FT2
EHA20P007	20	7	0.130	3.30	10.25	15.25	3251	AWM I A/B FT2
EHA18P019	18	19	0.139	3.53	12.60	18.75	3251	AWM I A/B FT2
EHA16P026	16	26	0.150	3.81	16.51	24.57	3251	AWM I A/B FT2
EHA14P041	14	41	0.165	4.19	22.34	33.24	3251	AWM I A/B FT2
EHA12P065	12	65	0.184	4.67	31.91	47.49	3251	AWM I A/B FT2
EHA10P105	10	105	0.205	5.21	46.15	68.68	3251	AWM I A/B FT2

Standard conductor: Nickel Plated Copper - 2%
Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.
All dimensions listed above are nominal.
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250C/300V and 250C/600V

PFA 250

HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

250°C - 300 Volts - UL Style 1726 / CSA 180°C AWM I A/B FTI

250°C - 600 Volts - UL Style 1727 / CSA 180°C AWM I A/B FTI

250°C - 600 Volts - UL Style 10362, 10297 / CSA 180°C AWM I A/B FTI

RoHS Compliant

Passes UL VWI Flame Test

CONSTRUCTION

Conductors

24 AWG - 2/0 AWG

Nickel-plated copper - 2%

(Other conductor materials available)

Insulating System

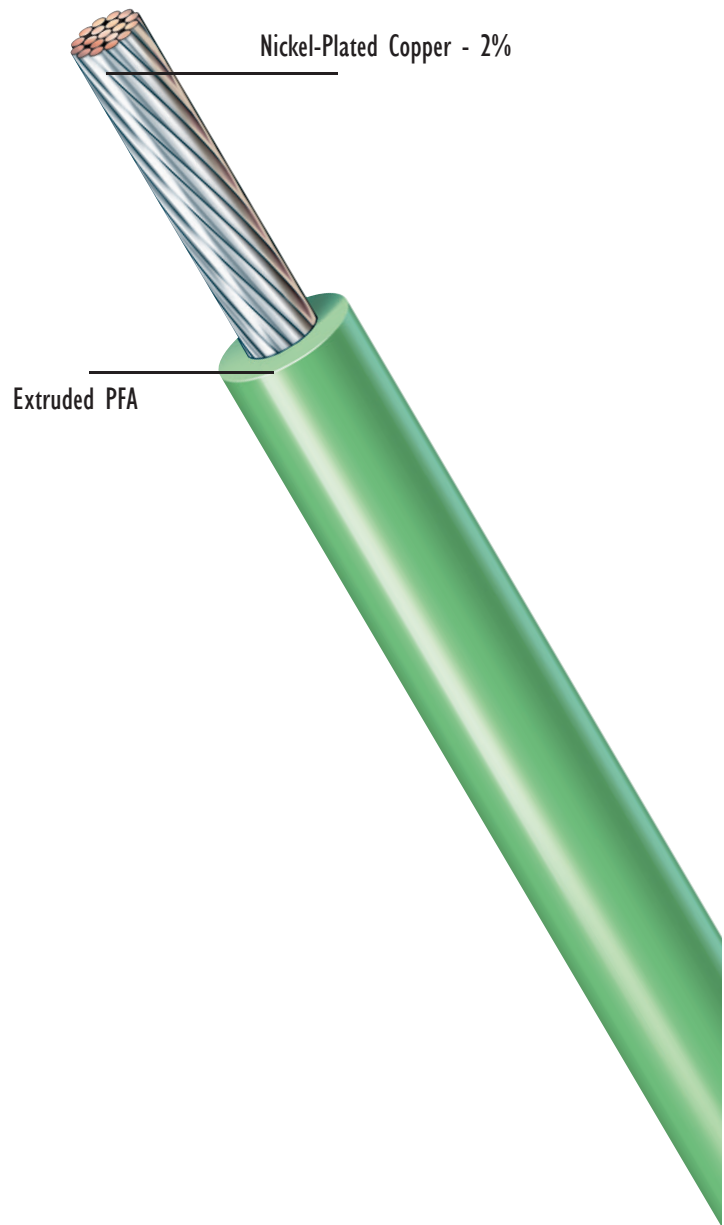
Extruded perfluoroalkoxy copolymer (PFA)

Standard Color Coding

Available in Colors

CHARACTERISTICS

- Featuring small outside diameter, PFA offers optimum insulation for smaller applications at half the space of other constructions.
- Mechanical toughness and low coefficient of friction of PFA allow "pull" installation of long wire lengths.



Radix

Radix Wire

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SPECIFICATIONS

FEP 200 HIGH-TEMPERATURE LEAD WIRE

PFA 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA 180C
GBA24P007	24	7	0.052	1.32	2.96	4.40	1726	AWM I A/B FT I
GBA22P007	22	7	0.058	1.47	3.90	5.80	1726	AWM I A/B FT I
GBA20P007	20	7	0.064	1.63	5.15	7.66	1726	AWM I A/B FT I
GBA20P010	20	10	0.063	1.60	5.14	7.65	1726	AWM I A/B FT I
GBA20P019	20	19	0.067	1.70	5.89	8.76	1726	AWM I A/B FT I
GBA18P019	18	19	0.072	1.83	7.30	10.86	1726	AWM I A/B FT I
GBA16P019	16	19	0.084	2.13	10.87	16.17	1726	AWM I A/B FT I
GBA16P026	16	26	0.085	2.16	10.95	16.29	1726	AWM I A/B FT I
GBA14P041	14	41	0.100	2.54	16.23	24.15	1726	AWM I A/B FT I

PFA 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA 180C
GDA24P007	24	7	0.066	1.68	4.14	6.16	1727	AWM I A/B FT I
GDA22P007	22	7	0.072	1.83	5.24	7.79	1727	AWM I A/B FT I
GDA20P007	20	7	0.078	1.98	6.61	9.83	1727	AWM I A/B FT I
GDA18P016	18	16	0.087	2.21	9.01	13.40	1727	AWM I A/B FT I
GDA18P019	18	19	0.086	2.18	8.92	13.27	1727	AWM I A/B FT I
GDA16P019	16	19	0.098	2.49	12.74	18.96	1727	AWM I A/B FT I
GDA16P026	16	26	0.099	2.51	12.84	19.10	1727	AWM I A/B FT I
GDA14P041	14	41	0.114	2.90	18.42	27.41	1727	AWM I A/B FT I
GDA12P065	12	65	0.132	3.35	27.43	40.82	1727	AWM I A/B FT I
GDA10P105	10	105	0.157	4.32	42.46	63.19	1727	AWM I A/B FT I
GDA08P133	8	133	0.225	5.72	70.51	104.94	1727	AWM I A/B FT I
GDA06P133	6	133	0.260	6.60	103.29	153.72	1727	AWM I A/B FT I

PFA 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA 180C
GMA20P019	20	19	0.0630	1.60	5.31	7.90	10362/10297	AWM I A/B FT I
GMA20P010	20	10	0.0570	1.45	4.61	6.86	10362/10297	AWM I A/B FT I
GMA18P019	18	19	0.0660	1.68	6.69	9.96	10362/10297	AWM I A/B FT I
GMA16P026	16	26	0.0790	2.01	10.23	15.23	10362/10297	AWM I A/B FT I
GMA14P041	14	41	0.0940	2.39	15.37	22.88	10362/10297	AWM I A/B FT I

Standard conductor: Nickel Plated Copper - 2%
Consult factory for alternative conductor and stranding options.



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250C/600V

SIL-A-BLEND[®] 250 HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

250°C – 600 Volts - UL Style 3637 / CSA AWM Class I A/B FT2

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 8 AWG

Stranded nickel-plated copper - 2%
(Other conductor materials available)

Insulating System

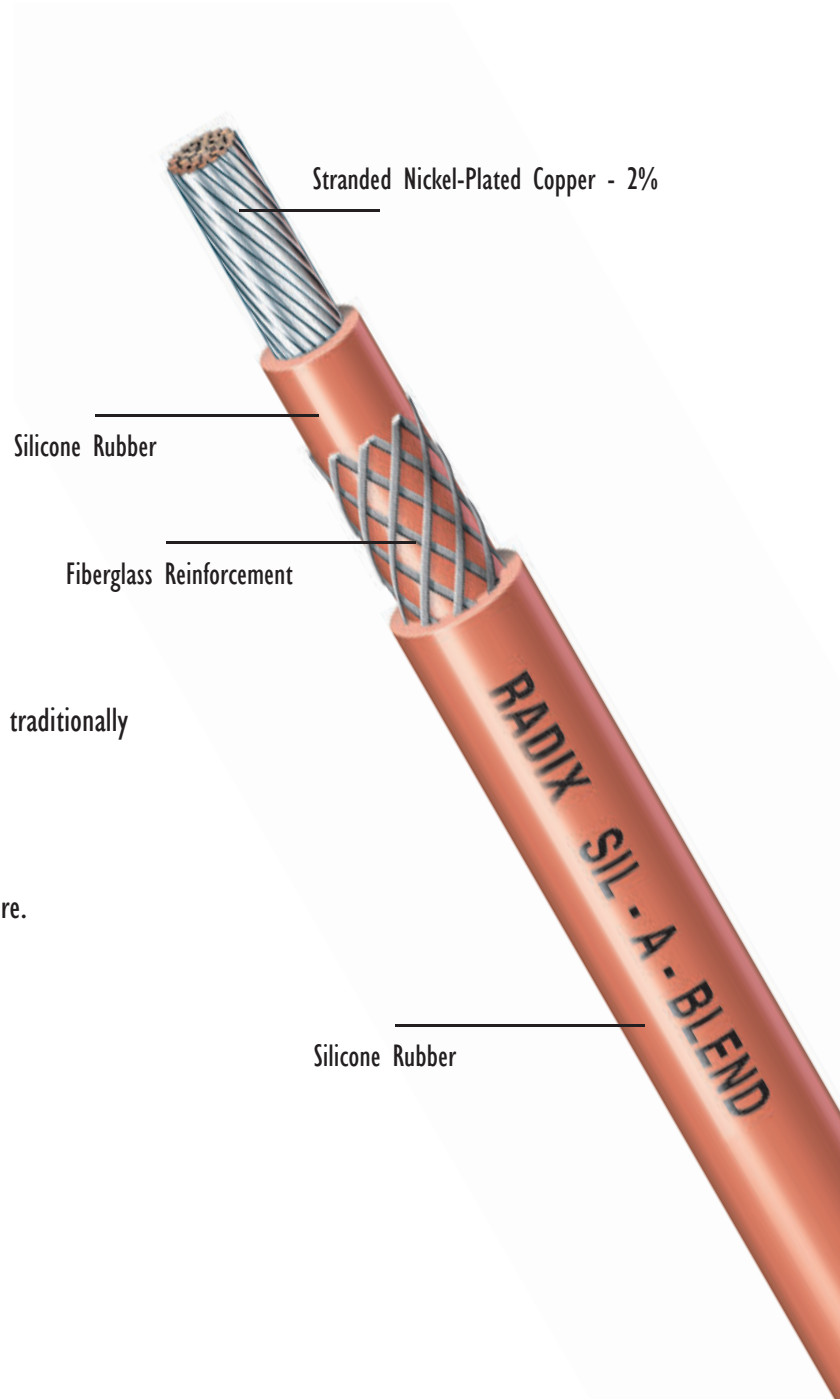
Composite Extruded Silicone Rubber with
intermediate fiberglass reinforcement

Standard Color Coding

Iron Oxide Red with Colored Markings

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Eliminates braid fraying, flowering and shrink back.
 - ~ Virtually eliminates skin irritation.
 - ~ Significantly reduces airborne fiberglass contaminants traditionally found in high volume processing.
 - ~ Superior flexibility.
 - ~ Color stable at elevated temperatures.
 - ~ Low smoke.
- Silicone formulations suitable for UV, ozone, moisture exposure.
Not suited for immersed applications.
- Suitable for applications to -60°C.



Radix[™]

Revised 8/13

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SPECIFICATIONS

SIL-A-BLEND[®] 250 HIGH-TEMPERATURE LEAD WIRE

SIL-A-BLEND 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
NMA20P007	20	7	0.110	2.80	8.01	11.91	3637	AWM I A/B FT2
NMA18P019	18	19	0.117	2.98	10.12	15.06	3637	AWM I A/B FT2
NMA16P026	16	26	0.129	3.27	13.90	20.68	3637	AWM I A/B FT2
NMA14P041	14	41	0.143	3.63	19.33	28.77	3637	AWM I A/B FT2
NMA12P065	12	65	0.162	4.11	28.36	42.20	3637	AWM I A/B FT2
NMA10P105	10	105	0.216	5.50	47.27	70.35	3637	AWM I A/B FT2
NMA08P133	8	133	0.299	7.58	80.13	119.24	3637	AWM I A/B FT2

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

250°C – 600 Volts - continuous temperature rating under normal service conditions

400°C – 600 Volts - temporary temperature rating for short periods

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Stranded nickel-coated copper-27%
(Other conductor materials available)

Insulating Construction

Reinforced mica and PTFE tapes
Heat sealed PTFE moisture and fluid barrier

Conductor Covering

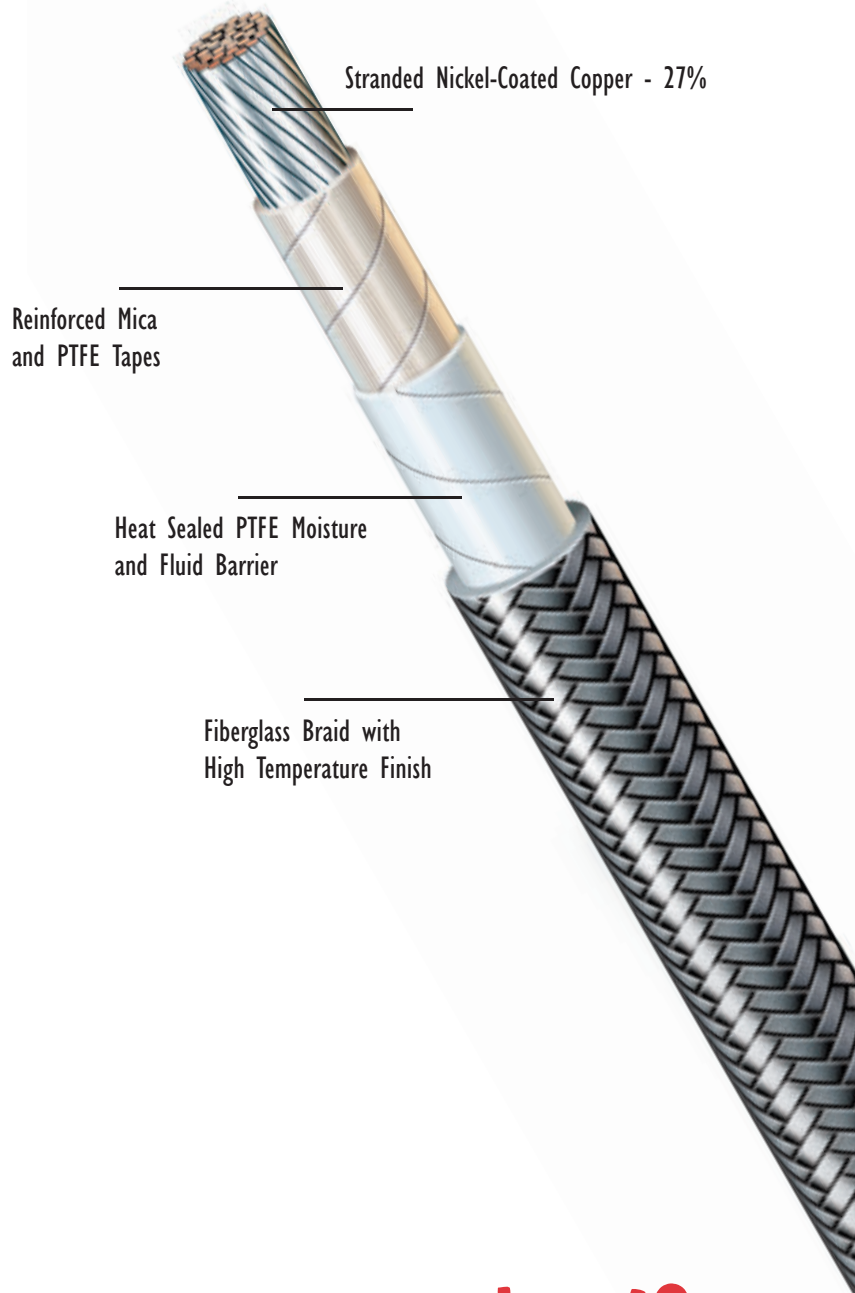
Braided fiberglass with a high temperature finish

Standard Color Coding

Black or Natural

CHARACTERISTICS

- Moisture, oil, fluid, and abrasion resistant
- Fire resistant, with low smoke properties
- Withstands mechanical abuse
- Not recommended for outdoor use



Radix™

SPECIFICATIONS

TEMPERGARD FZ 101 HIGH-TEMPERATURE LEAD WIRE

TEMPERGARD FZ 101 250C-400C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
BLT22C007	22	7	0.084	2.13	5.8	8.63	n/a	n/a
BLT20C010	20	10	0.090	2.29	7.3	10.86	n/a	n/a
BLT18C016	18	16	0.098	2.49	9.5	14.13	n/a	n/a
BLT16C026	16	26	0.108	2.74	13.0	19.34	n/a	n/a
BLT14C041	14	41	0.127	3.23	19.1	28.42	n/a	n/a
BLT12C065	12	65	0.141	3.58	27.4	40.77	n/a	n/a
BLT10C105	10	105	0.179	4.55	42.4	63.10	n/a	n/a
BLT08C133	8	133	0.228	5.79	65.9	98.07	n/a	n/a
BLT06C133	6	133	0.270	6.86	97.6	145.25	n/a	n/a
BLT02C133	2	133	0.432	10.97	249.8	371.76	n/a	n/a

Standard conductor: Nickel Coated Copper-27%

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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Radix Wire
26000 Lakeland Boulevard • Cleveland, OH 44132
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www.radix-wire.com

RATINGS / APPROVALS

250°C – 300 Volts - UL Style 5180 / CSA AWM I A/B FTI

250°C – 600 Volts - UL Style 5127, 5196, 5251 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 2 AWG (300 Volts)

24 AWG – 4/0 AWG (600 Volts)

Stranded or solid nickel-plated copper
(Other conductor materials available)

Insulating System

PTFE Tape with glass serve

Outer Covering

Braided fiberglass with a high temperature finish

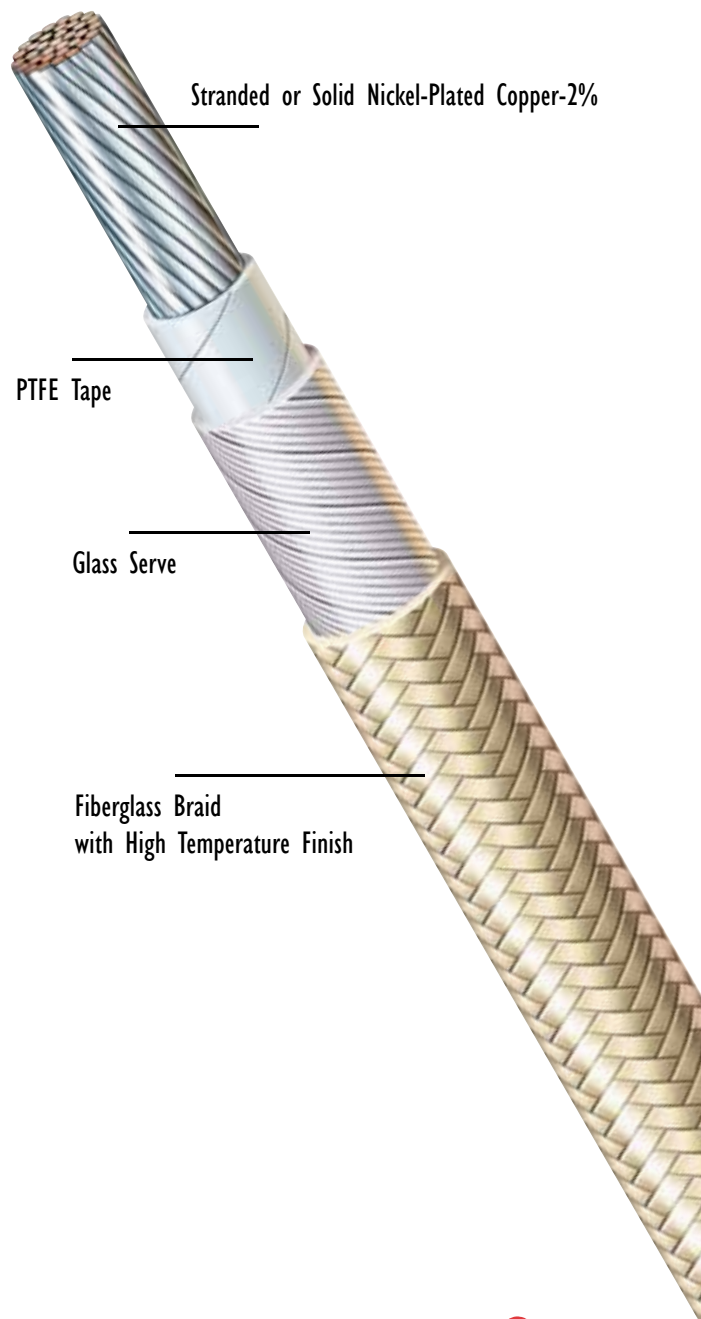
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Tough treated outer glass braid and fiberglass servings permit the product to withstand repeated flexing and severe mechanical abuse.
- Moisture resistant.
- Resists pushback and braid fray.
- Flexible.



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TGGS 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
AAS22P007	22	7	0.077	1.96	5.34	7.96	5180	AWM I A/B FTI
AAS20P007	20	7	0.084	2.13	6.80	10.13	5180	AWM I A/B FTI
AAS18P019	18	19	0.089	2.26	8.82	13.14	5180	AWM I A/B FTI
AAS16P026	16	26	0.113	2.87	14.08	20.98	5180	AWM I A/B FTI
AAS14P041	14	41	0.126	3.20	19.80	29.50	5180	AWM I A/B FTI
AAS12P065	12	65	0.144	3.66	28.83	42.96	5180	AWM I A/B FTI
AAS10P105	10	105	0.169	4.29	42.90	63.92	5180	AWM I A/B FTI

TGGS 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
ARS22P007	22	7	0.098	2.49	8.03	11.94	5127/5196/5251	AWM I A/B FTI
ARS20P007	20	7	0.105	2.67	9.71	14.45	5127/5196/5251	AWM I A/B FTI
ARS18P019	18	19	0.112	2.84	11.95	17.78	5127/5196/5251	AWM I A/B FTI
ARS16P026	16	26	0.125	3.18	16.10	23.96	5127/5196/5251	AWM I A/B FTI
ARS14P041	14	41	0.137	3.48	21.78	32.41	5127/5196/5251	AWM I A/B FTI
ARS12P065	12	65	0.155	3.94	30.52	45.42	5127/5196/5251	AWM I A/B FTI
ARS10P105	10	105	0.181	4.60	45.84	68.22	5127/5196/5251	AWM I A/B FTI
ARS08P133	8	133	0.229	5.82	70.60	105.07	5127/5196/5251	AWM I A/B FTI
ARS06P133	6	133	0.294	7.47	114.20	169.95	5196	AWM I A/B FTI
ARS04P133	4	133	0.374	9.50	182.90	272.19	5196	AWM I A/B FTI
ARS02P133	2	133	0.443	11.25	272.10	404.94	5196	AWM I A/B FTI
AISX1P259	1/0	259	0.531	13.49	410.95	611.59	5251	AWM I A/B FTI
AISX2P259	2/0	259	0.582	14.78	506.05	753.12	5251	AWM I A/B FTI
AISX3P259	3/0	259	0.636	16.23	624.59	929.53	5251	AWM I A/B FTI
AISX4P259	4/0	259	0.702	17.83	770.66	1146.92	5251	AWM I A/B FTI

Standard conductor: Nickel Plated Copper - 2%
Consult factory for alternate conductor and stranding options.

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All dimensions listed above are nominal.
Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670
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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 5257 / CSA AWM Class I A/B FTI

250°C – 600 Volts - UL Style 5256 / CSA AWM Class I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 10 AWG (300 Volts)

22 AWG – 4/0 AWG (600 Volts)

Stranded nickel-plated copper-2%

(Other conductor materials available)

Insulating System

PTFE Tape with glass serve

Outer Covering

Braided fiberglass with a high temperature finish

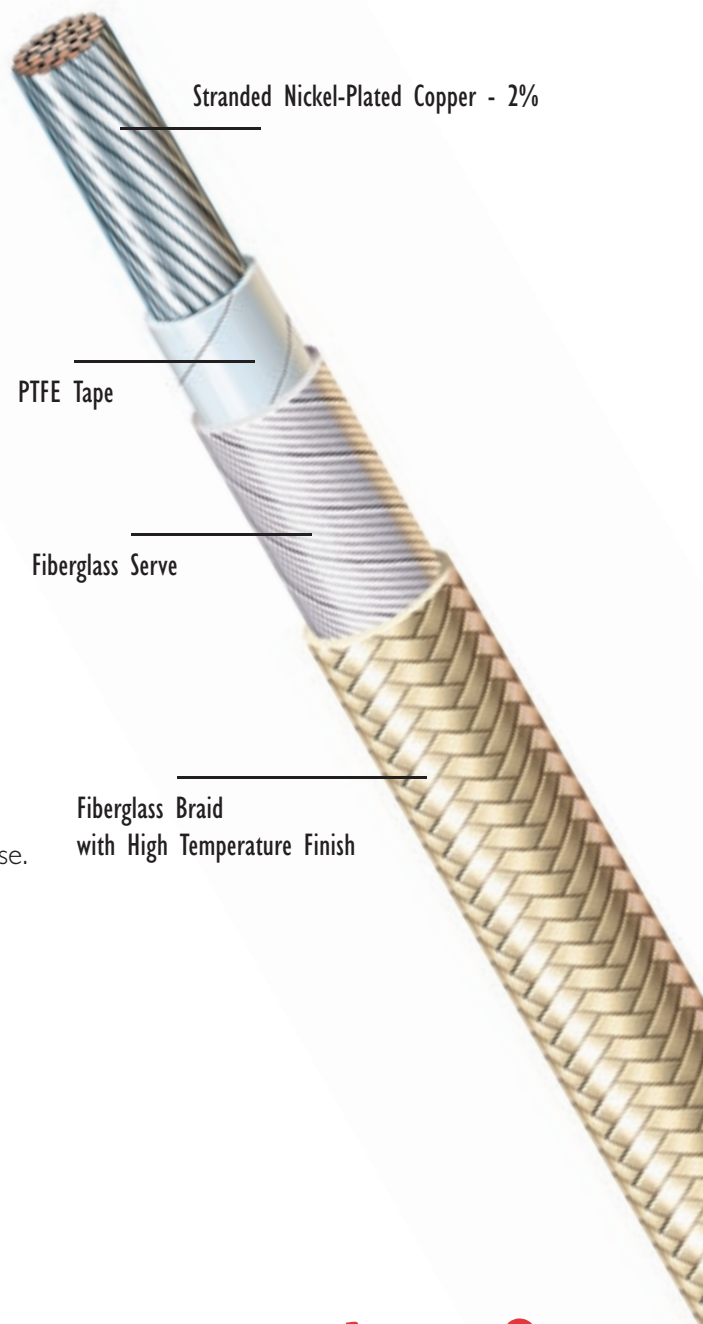
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Outperforms TGGS products:
 - ~ Reduced diameter.
 - ~ Excellent cut and strip characteristics making it ideal for high volume manufacturing and assembly.
- Tough treated outer glass braid and fiberglass servings permit the product to withstand repeated flexing and severe mechanical abuse.
- Moisture resistant.
- Resists pushback and braid fray.
- Flexible.



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SPECIFICATIONS

TGGS UNISTRIP™ 250 HIGH-TEMPERATURE LEAD WIRE

TGGS UNISTRIP 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DAS24P007	24	7	0.064	1.63	3.67	5.47	5257	AWM I A/B FTI
DAS22P007	22	7	0.067	1.71	4.53	6.75	5257	AWM I A/B FTI
DAS20P007	20	7	0.071	1.81	5.73	8.54	5257	AWM I A/B FTI
DAS18P019	18	19	0.079	2.02	7.83	11.67	5257	AWM I A/B FTI
DAS16P026	16	26	0.098	2.49	12.83	19.12	5257	AWM I A/B FTI
DAS14P041	14	41	0.113	2.87	18.16	27.06	5257	AWM I A/B FTI
DAS12P065	12	65	0.131	3.33	26.35	39.28	5257	AWM I A/B FTI
DAS10P105	10	105	0.157	3.99	40.85	60.87	5257	AWM I A/B FTI

TGGS UNISTRIP 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DBS24P007	24	7	0.068	1.73	4.10	6.11	5256	AWM I A/B FTI
DBS22P007	22	7	0.074	1.88	5.10	7.59	5256	AWM I A/B FTI
DBS20P010	20	10	0.084	2.13	7.08	10.53	5256	AWM I A/B FTI
DBS18P019	18	19	0.091	2.31	9.32	13.87	5256	AWM I A/B FTI
DBS16P026	16	26	0.107	2.71	13.76	20.47	5256	AWM I A/B FTI
DBS14P041	14	41	0.121	3.06	19.39	28.85	5256	AWM I A/B FTI
DBS12P065	12	65	0.139	3.52	28.36	42.21	5256	AWM I A/B FTI
DBS10P105	10	105	0.164	4.16	42.37	63.05	5256	AWM I A/B FTI
DBS08P133	8	133	0.212	5.38	66.15	98.45	5256	AWM I A/B FTI
DBS06P133	6	133	0.282	7.16	109.61	163.12	5256	AWM I A/B FTI
DBS04P133	4	133	0.335	8.51	164.81	245.27	5256	AWM I A/B FTI
DBS02P133	2	133	0.402	10.21	247.96	369.02	5256	AWM I A/B FTI
AISX1P259	1/0	259	0.531	13.49	410.95	611.59	5251	AWM I A/B FTI
AISX2P259	2/0	259	0.582	14.78	506.05	753.12	5251	AWM I A/B FTI
AISX3P259	3/0	259	0.639	16.23	624.59	929.53	5251	AWM I A/B FTI
AISX4P259	4/0	259	0.702	17.83	770.66	1146.92	5251	AWM I A/B FTI

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

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All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 5180 / CSA AWM I A/B FTI

250°C – 600 Volts - UL Style 5127, 5196, 5251 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 2 AWG (300 Volts)

24 AWG – 4/0 AWG (600 Volts)

Stranded or solid nickel-plated copper
(Other conductor materials available)

Insulating System

PTFE Tape with glass serve

Outer Covering

Braided fiberglass with a high temperature finish

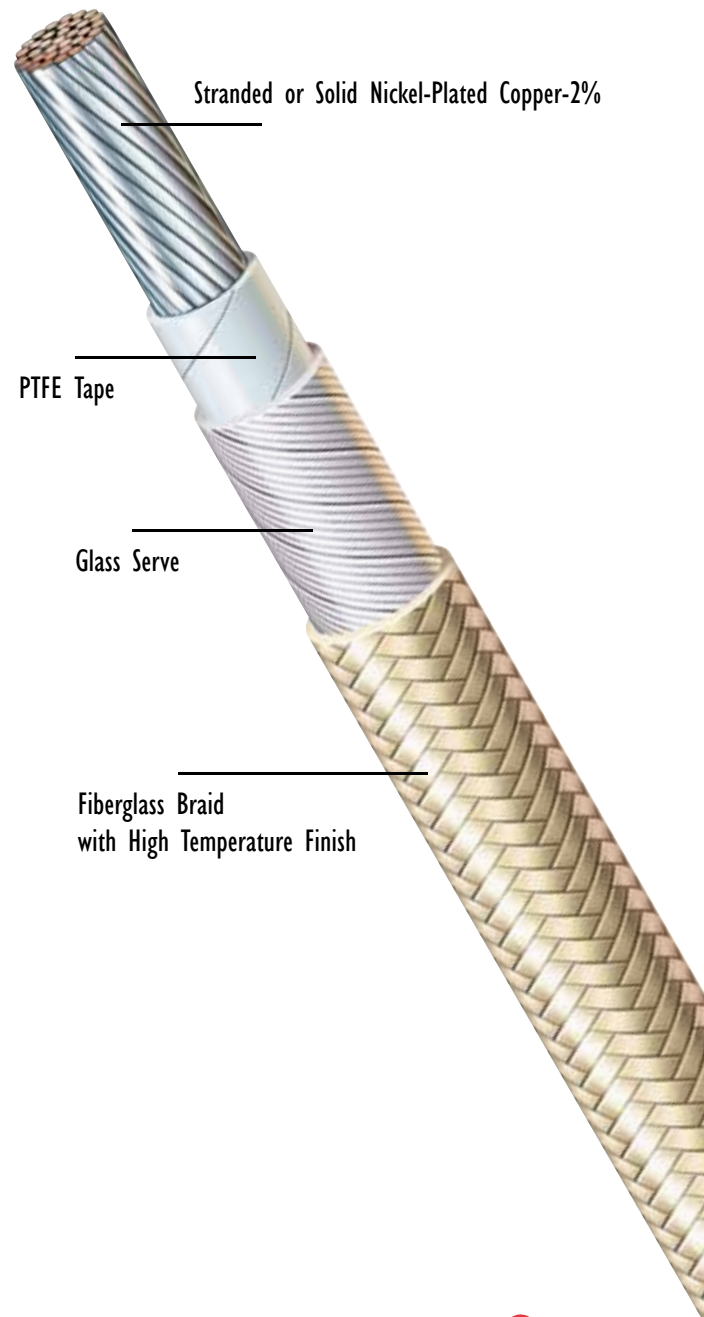
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Tough treated outer glass braid and fiberglass servings permit the product to withstand repeated flexing and severe mechanical abuse.
- Moisture resistant.
- Resists pushback and braid fray.
- Flexible.



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SPECIFICATIONS

TGGT 250 HIGH-TEMPERATURE LEAD WIRE

TGGT 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
AAT22P007	22	7	0.077	1.96	5.34	7.96	5180	AWM I A/B FTI
AAT20P007	20	7	0.084	2.13	6.80	10.13	5180	AWM I A/B FTI
AAT18P019	18	19	0.089	2.26	8.82	13.14	5180	AWM I A/B FTI
AAT16P026	16	26	0.113	2.87	14.08	20.98	5180	AWM I A/B FTI
AAT14P041	14	41	0.126	3.20	19.80	29.50	5180	AWM I A/B FTI
AAT12P065	12	65	0.144	3.66	28.83	42.96	5180	AWM I A/B FTI
AAT10P105	10	105	0.169	4.29	42.90	63.92	5180	AWM I A/B FTI

TGGT 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
ART22P007	22	7	0.098	2.49	8.03	11.94	5127/5196/5251	AWM I A/B FTI
ART20P007	20	7	0.105	2.67	9.71	14.45	5127/5196/5251	AWM I A/B FTI
ART18P019	18	19	0.112	2.84	11.95	17.78	5127/5196/5251	AWM I A/B FTI
ART16P026	16	26	0.125	3.18	16.10	23.96	5127/5196/5251	AWM I A/B FTI
ART14P041	14	41	0.137	3.48	21.78	32.41	5127/5196/5251	AWM I A/B FTI
ART12P065	12	65	0.155	3.94	30.52	45.42	5127/5196/5251	AWM I A/B FTI
ART10P105	10	105	0.181	4.60	45.84	68.22	5127/5196/5251	AWM I A/B FTI
ART08P133	8	133	0.229	5.82	70.60	105.07	5127/5196/5251	AWM I A/B FTI
ARE06P133	6	133	0.294	7.47	114.20	169.95	5196	AWM I A/B FTI
ARE04P133	4	133	0.374	9.50	182.90	272.19	5196	AWM I A/B FTI
ARE02P133	2	133	0.443	11.25	272.10	404.94	5196	AWM I A/B FTI
AITX1P259	1/0	259	0.531	13.49	410.95	611.59	5251	AWM I A/B FTI
AITX2P259	2/0	259	0.582	14.78	506.05	753.12	5251	AWM I A/B FTI
AITX3P259	3/0	259	0.636	16.23	624.59	929.53	5251	AWM I A/B FTI
AITX4P259	4/0	259	0.702	17.83	770.66	1146.92	5251	AWM I A/B FTI

Standard conductor: Nickel Plated Copper - 2%
Consult factory for alternate conductor and stranding options.

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Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670
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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 5257 / CSA AWM Class I A/B FTI

250°C – 600 Volts - UL Style 5256 / CSA AWM Class I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 10 AWG (300 Volts)

22 AWG – 4/0 AWG (600 Volts)

Stranded nickel-plated copper-2%

(Other conductor materials available)

Insulating System

PTFE Tape with glass serve

Outer Covering

Braided fiberglass with a high temperature finish

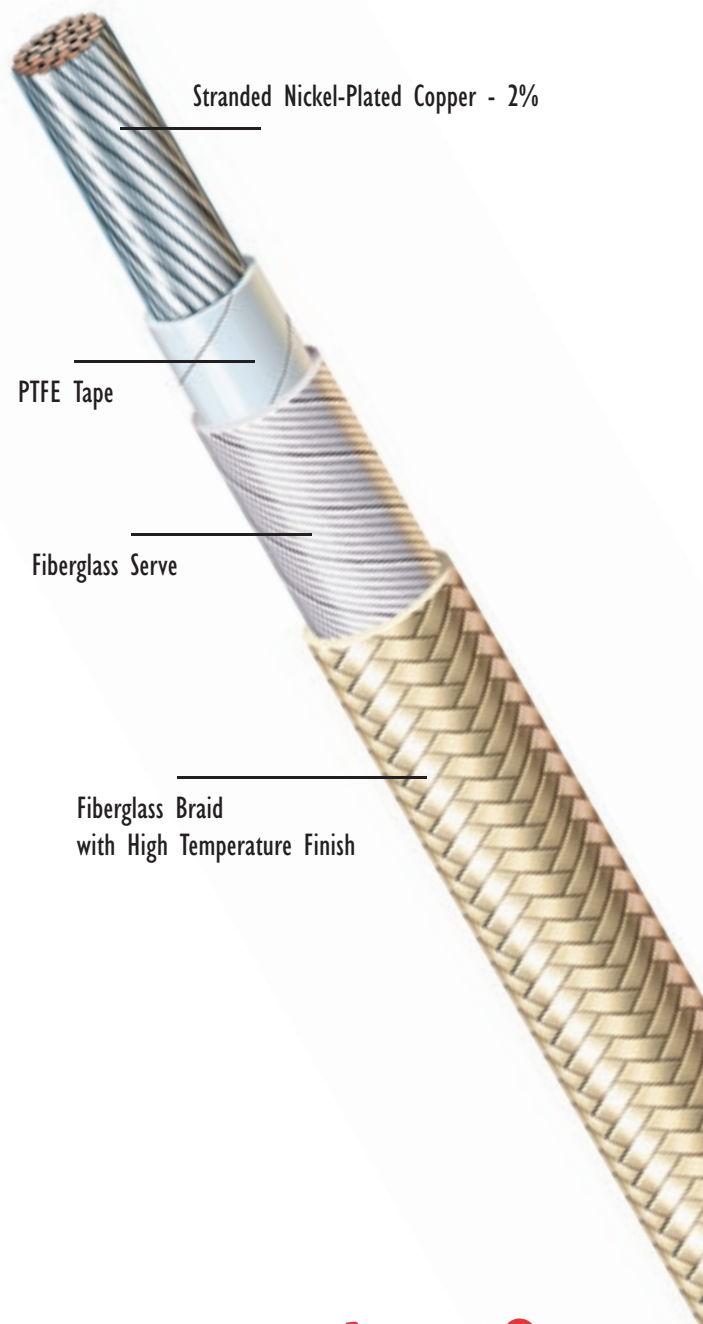
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Outperforms TGGT products:
 - ~ Reduced diameter.
 - ~ Excellent cut and strip characteristics making it ideal for high volume manufacturing and assembly.
- Tough treated outer glass braid and fiberglass servings permit the product to withstand repeated flexing and severe mechanical abuse.
- Moisture resistant.
- Resists pushback and braid fray.
- Flexible.



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SPECIFICATIONS

TGGT UNISTRIP™ 250 HIGH-TEMPERATURE LEAD WIRE

TGGT UNISTRIP 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DAT24P007	24	7	0.064	1.63	3.67	5.47	5257	AWM I A/B FTI
DAT22P007	22	7	0.067	1.71	4.53	6.75	5257	AWM I A/B FTI
DAT20P007	20	7	0.071	1.81	5.73	8.54	5257	AWM I A/B FTI
DAT18P019	18	19	0.079	2.02	7.83	11.67	5257	AWM I A/B FTI
DAT16P026	16	26	0.098	2.49	12.83	19.12	5257	AWM I A/B FTI
DAT14P041	14	41	0.113	2.87	18.16	27.06	5257	AWM I A/B FTI
DAT12P065	12	65	0.131	3.33	26.35	39.28	5257	AWM I A/B FTI
DAT10P105	10	105	0.157	3.99	40.85	60.87	5257	AWM I A/B FTI

TGGT UNISTRIP 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt. - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DBT24P007	24	7	0.068	1.73	4.10	6.11	5256	AWM I A/B FTI
DBT22P007	22	7	0.074	1.88	5.10	7.59	5256	AWM I A/B FTI
DBT20P010	20	10	0.084	2.13	7.08	10.53	5256	AWM I A/B FTI
DBT18P019	18	19	0.091	2.31	9.32	13.87	5256	AWM I A/B FTI
DBT16P026	16	26	0.107	2.71	13.76	20.47	5256	AWM I A/B FTI
DBT14P041	14	41	0.121	3.06	19.39	28.85	5256	AWM I A/B FTI
DBT12P065	12	65	0.139	3.52	28.36	42.21	5256	AWM I A/B FTI
DBT10P105	10	105	0.164	4.16	42.37	63.05	5256	AWM I A/B FTI
DBT08P133	8	133	0.212	5.38	66.15	98.45	5256	AWM I A/B FTI
DBT06P133	6	133	0.282	7.16	109.61	163.12	5256	AWM I A/B FTI
DBT04P133	4	133	0.335	8.51	164.81	245.27	5256	AWM I A/B FTI
DBT02P133	2	133	0.402	10.21	247.96	369.02	5256	AWM I A/B FTI
AITX1P259	1/0	259	0.531	13.49	410.95	611.59	5251	AWM I A/B FTI
AITX2P259	2/0	259	0.582	14.78	506.05	753.12	5251	AWM I A/B FTI
AITX3P259	3/0	259	0.639	16.23	624.59	929.53	5251	AWM I A/B FTI
AITX4P259	4/0	259	0.702	17.83	770.66	1146.92	5251	AWM I A/B FTI

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

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RATINGS / APPROVALS

250°C – 600 Volts

RoHS Compliant

CONSTRUCTION**Conductors**

24 AWG – 4/0 AWG

Stranded or solid nickel-plated copper
(Other conductor materials available)**Insulating System**

PTFE Tape with glass serve

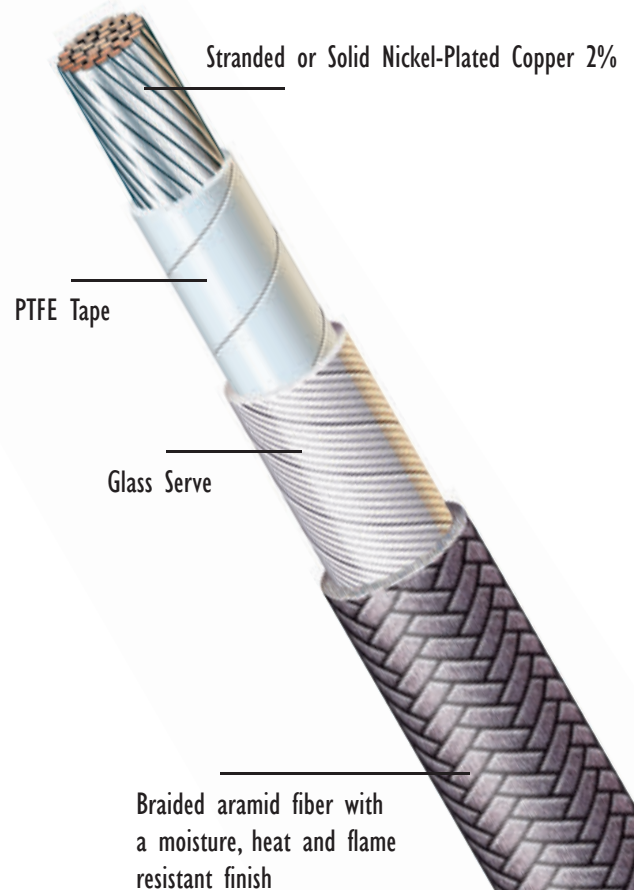
Outer CoveringBraided aramid fiber with a moisture, heat
and flame resistant finish**Standard Color Coding**

Natural

Colored Tracers

CHARACTERISTICS

- The braided aramid fiber provides superior cut-through and abrasion resistance
- Aramid fibers are aromatic polyaramids produced by DuPont. Two versions are known as Kevlar® and Nomex®. These materials have excellent environmental and thermal stability, fatigue resistance and impact resistance
- Moisture resistant
- Not recommended for outdoor use



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TGKT 250C/600V

Part No.	Awg. size	# strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
AJT18P019	18	19	0.129	3.28	13.26	19.73	n/a	n/a
AJT16P026	16	26	0.141	3.89	17.42	25.93	n/a	n/a
AJT14P041	14	41	0.156	3.96	23.59	35.11	n/a	n/a
AJT12P065	12	65	0.174	4.42	33.17	49.37	n/a	n/a
AJT10P105	10	105	0.199	5.05	47.84	71.20	n/a	n/a
AJT08P133	8	133	0.247	6.27	74.26	110.52	n/a	n/a
AJT06P133	6	133	0.338	8.59	125.00	186.03	n/a	n/a
AJT04P133	4	133	0.387	9.83	179.27	266.80	n/a	n/a
AJT02P133	2	133	0.452	11.48	267.54	398.16	n/a	n/a

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

250°C – 300 Volts - UL Style 5167 / CSA AWM I A/B FTI

250°C – 600 Volts - UL Style 5347 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 10 AWG

Stranded nickel-plated copper - 2%
(Other conductor materials available)

Insulating System

Fiberglass serve with high temperature impregnation

Outer Covering

Braided fiberglass with a high temperature finish

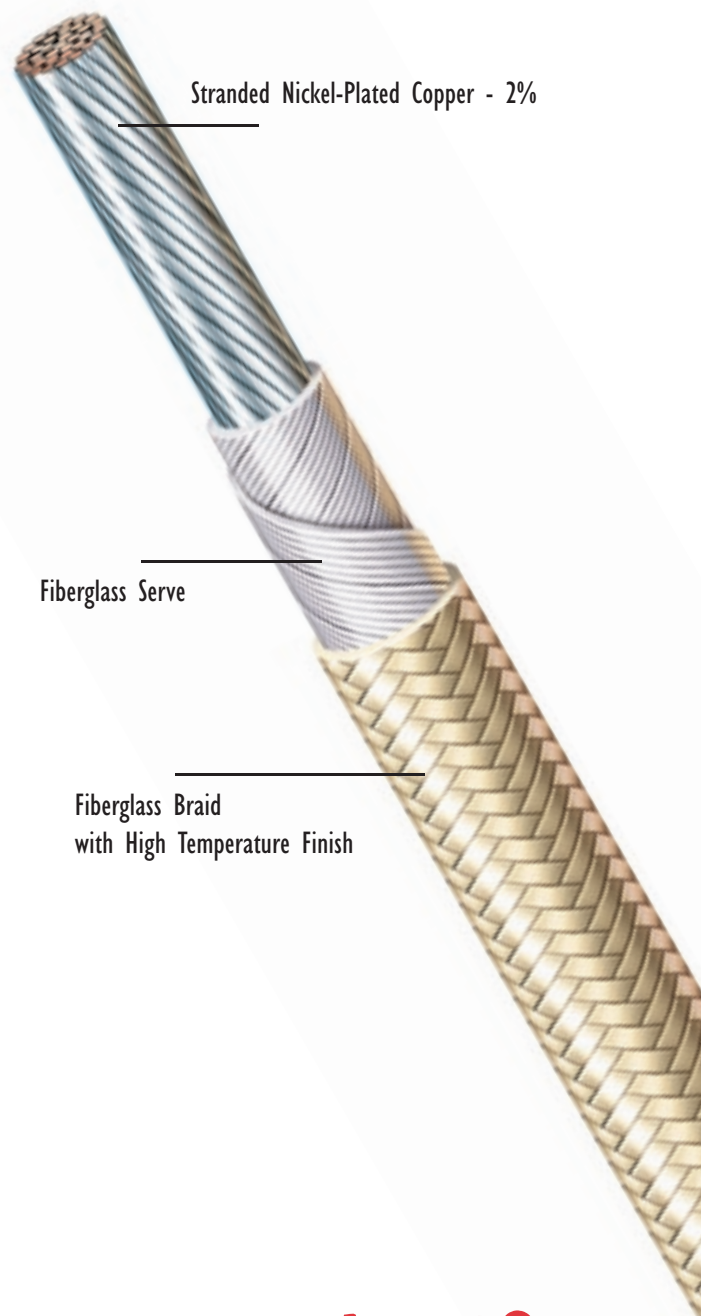
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Engineered for applications where out-gassing may be a problem.
- Factory rated up to 450°C.
- Uniform diameter for close tolerance installations.



Stranded Nickel-Plated Copper - 2%

Fiberglass Serve

Fiberglass Braid
with High Temperature Finish

Radix™

Radix Wire Company

26000 Lakeland Boulevard • Cleveland, OH 44132

Tel: 216 731-9191 • Fax: 216 731-7082

www.radix-wire.com

SPECIFICATIONS

ULTRALEAD™ 250 HIGH-TEMPERATURE LEAD WIRE

ULTRALEAD™ 250C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
AOE20P007	20	7	0.092	2.34	7.30	10.86	5167	AWM I A/B FTI
AOE18P019	18	19	0.102	2.59	9.56	14.22	5167	AWM I A/B FTI
AOE16P026	16	26	0.114	2.84	13.29	19.77	5167	AWM I A/B FTI
AOE14P041	14	41	0.128	3.23	18.71	27.84	5167	AWM I A/B FTI
AOE12P065	12	65	0.145	3.68	27.01	40.19	5167	AWM I A/B FTI
AOE10P105	10	105	0.171	4.34	41.67	62.01	5167	AWM I A/B FTI

ULTRALEAD™ 250C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
APE24P007	24	7	0.096	2.44	6.18	9.19	5347	AWM I A/B FTI
APE22P007	22	7	0.101	2.54	7.40	11.01	5347	AWM I A/B FTI
APE20P007	20	7	0.106	2.69	8.79	13.08	5347	AWM I A/B FTI
APE18P019	18	19	0.115	2.92	11.30	16.81	5347	AWM I A/B FTI
APE16P026	16	26	0.127	3.23	15.11	22.48	5347	AWM I A/B FTI

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

450°C – 300 Volts - UL 5334 / 5128 / CSA AWM I A/B FTI

450°C – 600 Volts - UL 5335 / 5107 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 14 AWG (300 Volts)

22 AWG – 8 AWG (600 Volts)

Stranded nickel-plated copper - 27%

(Other conductor materials available)

Insulating System

Mica glass composite

Outer Covering

Fiberglass braid with high temperature finish

Standard Color Coding

Natural and Solid Colors

Colored Tracers

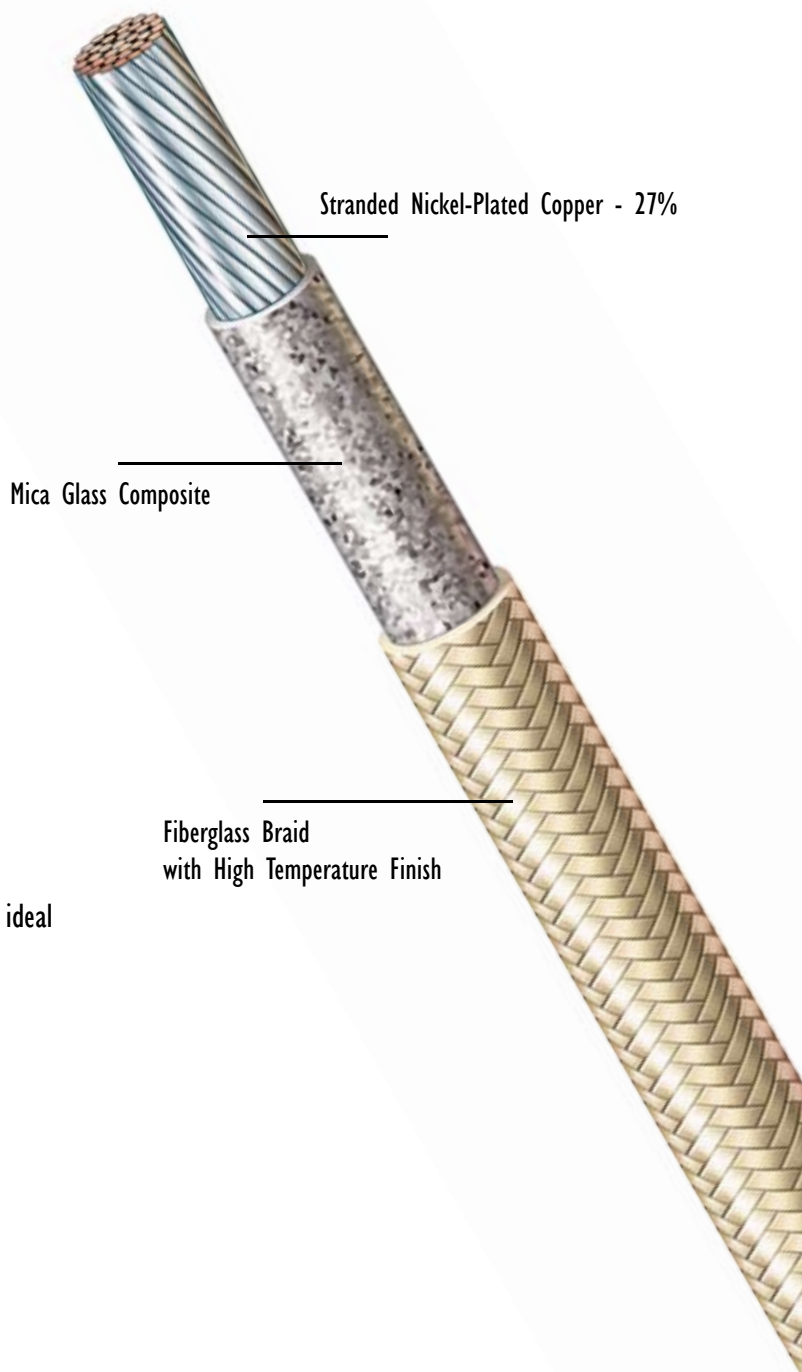
CHARACTERISTICS

- Outperforms UL 5128/5107 MGT products:
 - ~ Unique insulation system offers outstanding heat-aged flexibility for longer service life.
 - ~ Passes UL 2X mandrel test after heat aging (UL 5128/5107 is 3X mandrel).
 - ~ Excellent cutting and stripping characteristics, making it ideal for high volume manufacturing and assembly.
 - ~ Provides dimensional consistency and uniformity.
- Resists braid pushback.
- Withstands mechanical abuse.

DuraFlex® is a registered trademark of Radix Wire Company

DuraFlex® US Patent nos. 6,249,961 & 6,429,377

Other US and Foreign patents pending



Radix™

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SPECIFICATIONS

DuraFlex® 450
HIGH-TEMPERATURE

DuraFlex 450 450C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DGT24C007	24	7	0.069	1.75	4.82	7.173	5334/5128	AWM I A/B FT I
DGT22C007	22	7	0.081	2.06	6.59	9.807	5334/5128	AWM I A/B FT I
DGT20C010	20	10	0.087	2.21	8.10	12.055	5334/5128	AWM I A/B FT I
DGT18C016	18	16	0.096	2.44	10.44	15.537	5334/5128	AWM I A/B FT I
DGT16C026	16	26	0.110	2.79	14.71	21.892	5334/5128	AWM I A/B FT I
DGT14C041	14	41	0.126	3.20	20.95	31.179	5334/5128	AWM I A/B FT I

DuraFlex 450 450C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DHT24C007	24	7	0.090	2.29	7.68	11.430	5335/5107	AWM I A/B FT I
DHT22C007	22	7	0.098	2.49	8.75	13.022	5335/5107	AWM I A/B FT I
DHT20C010	20	10	0.108	2.74	11.17	16.624	5335/5107	AWM I A/B FT I
DHT18C016	18	16	0.120	3.05	14.26	21.222	5335/5107	AWM I A/B FT I
DHT16C026	16	26	0.134	3.40	18.94	28.187	5335/5107	AWM I A/B FT I
DHT14C041	14	41	0.150	3.81	25.48	37.920	5335/5107	AWM I A/B FT I
DHT12C065	12	65	0.170	4.32	35.49	52.818	5335/5107	AWM I A/B FT I
DHT10C105	10	105	0.211	5.36	54.53	81.154	5335/5107	AWM I A/B FT I
DHT08C133	8	133	0.261	6.63	80.34	119.565	5335/5107	AWM I A/B FT I

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

® Registered trademark of Radix.
All dimensions listed above are nominal.
Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670
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RATINGS / APPROVALS

550°C – 300 Volts - UL 5390 / AWM I A/B FTI

550°C – 600 Volts - UL 5400 / AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 14 AWG (300Volt)

24 AWG – 8 AWG (600 Volts)

Stranded nickel-plated copper - 27%
(Other conductor materials available)

Insulating System

Mica glass composite

Outer Covering

Fiberglass braid with silicone coating

Standard Color Coding

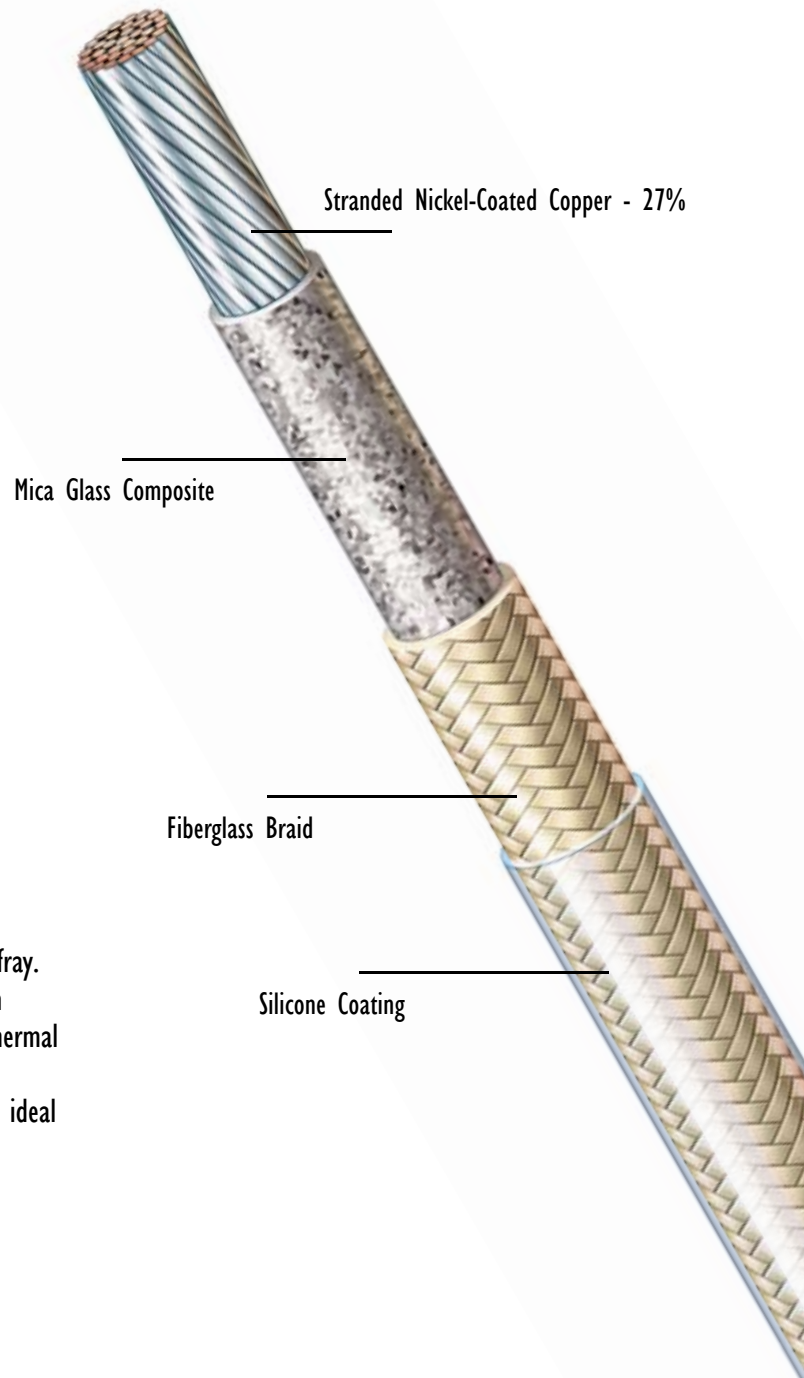
White

Colored Tracers

CHARACTERISTICS

- Outperforms UL 5128/5107 MGT products:
 - ~ Unique insulation system offers outstanding heat-aged flexibility for longer service life.
 - ~ Passes UL 2X mandrel test after heat aging (UL 5128/5107 is 3X mandrel).
 - ~ Modified silicone jacket virtually eliminates dermatitis problems associated with handling fiberglass and braid fray.
 - ~ 550°C temperature rating allows wire to be installed in extreme environments and reduces the cost of added thermal protection (glass sleeve, ceramic insulator, etc).
 - ~ Excellent cutting and stripping characteristics, making it ideal for high volume manufacturing and assembly.
 - ~ Provides dimensional consistency and uniformity.
- Resists braid pushback.
- Withstands mechanical abuse.

DuraFlex® is a registered trademark of Radix Wire Company
DuraFlex® US Patent nos. 6,249,961 & 6,429,377
Other US and Foreign patents pending



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SPECIFICATIONS

DuraFlex® 550
HIGH-TEMPERATURE

DuraFlex 550 550C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DCS24C007	24	7	0.081	2.06	5.98	8.90	5390	AWM I A/B FT I
DCS22C007	22	7	0.087	2.21	7.37	10.96	5390	AWM I A/B FT I
DCS20C010	20	10	0.091	2.31	8.37	12.45	5390	AWM I A/B FT I
DCS18C016	18	16	0.104	2.64	11.57	17.21	5390	AWM I A/B FT I
DCS16C026	16	26	0.120	3.05	15.67	23.32	5390	AWM I A/B FT I
DCS14C041	14	41	0.130	3.30	21.50	31.99	5390	AWM I A/B FT I

DuraFlex 550 550C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
DDS24C007	24	7	0.102	2.59	8.32	12.38	5400	AWM I A/B FT I
DDS22C007	22	7	0.108	2.74	9.91	14.74	5400	AWM I A/B FT I
DDS20C010	20	10	0.111	2.82	10.88	16.19	5400	AWM I A/B FT I
DDS18C016	18	16	0.124	3.15	14.62	21.75	5400	AWM I A/B FT I
DDS16C026	16	26	0.138	3.68	19.08	28.39	5400	AWM I A/B FT I
DDS14C041	14	41	0.158	4.01	26.61	39.60	5400	AWM I A/B FT I
DDS12C065	12	65	0.182	4.62	35.67	53.08	5400	AWM I A/B FT I
DDS10C105	10	105	0.212	5.38	50.62	75.33	5400	AWM I A/B FT I
DDS08C133	8	133	0.266	6.76	78.84	117.33	5400	AWM I A/B FT I

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

® Registered trademark of Radix.
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RATINGS / APPROVALS

450°C – 300 Volts - UL 5360 / CSA AWM I A/B FTI

450°C – 600 Volts - UL 5359 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 6 AWG (300 Volts)

24 AWG – 2 AWG (600 Volts)

Stranded nickel-coated copper - 27%

(Other conductor materials available)

Insulating System

Mica Tape

Outer Covering

Fiberglass braid with high temperature finish

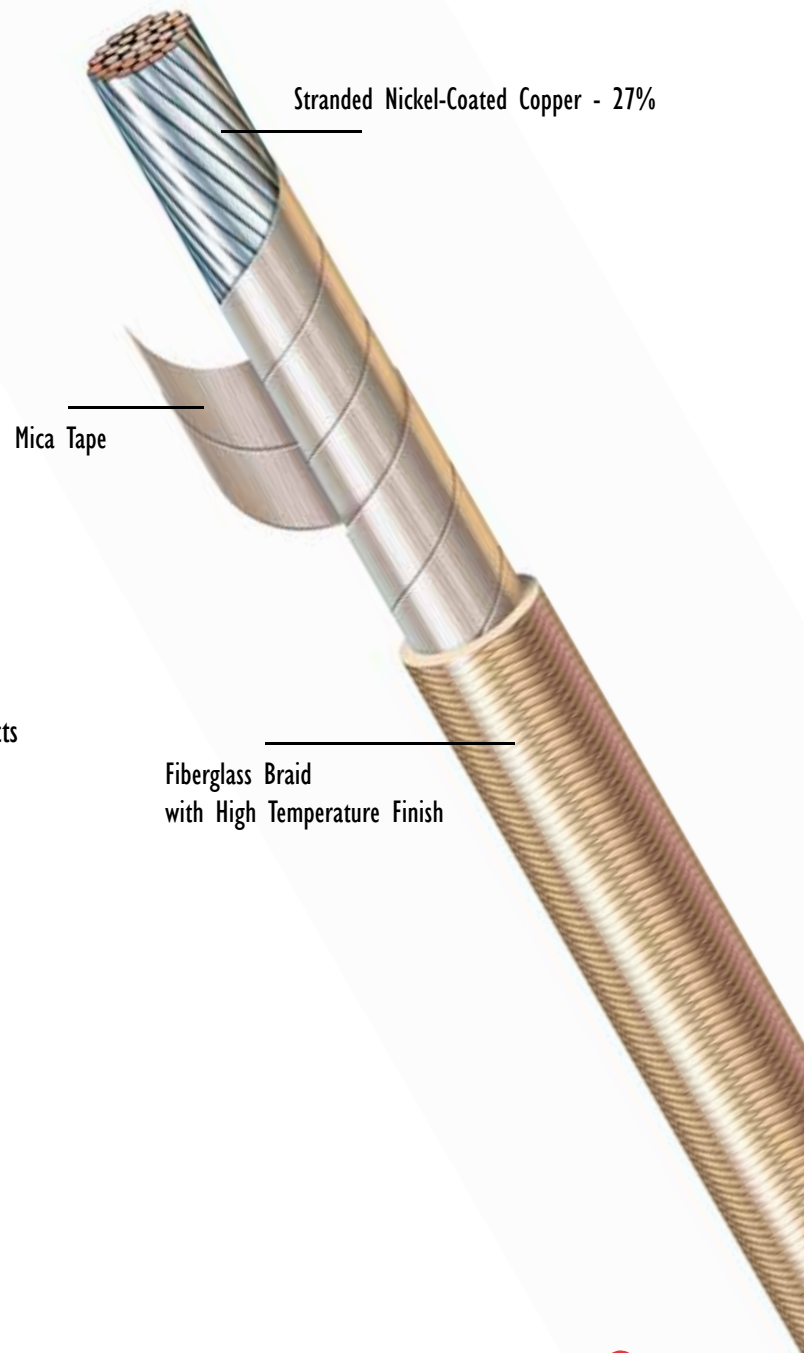
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Smaller Diameter as compared to other UL 450°C listed products
- Resists braid fray and push back.
- Withstands mechanical abuse.



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SPECIFICATIONS

MGT 450 Thin Wall HIGH-TEMPERATURE LEAD WIRE

MGT Thin Wall 450C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
BAT24C007	24	7	0.067	1.70	3.78	5.63	5360	AWM I A/B FT I
BAT22C007	22	7	0.076	1.93	5.13	7.64	5360	AWM I A/B FT I
BAT20C010	20	10	0.080	2.03	6.27	9.33	5360	AWM I A/B FT I
BAT18C016	18	16	0.088	2.23	8.38	12.47	5360	AWM I A/B FT I
BAT16C026	16	26	0.099	2.51	11.99	17.84	5360	AWM I A/B FT I
BAT14C041	14	41	0.113	2.87	17.86	25.83	5360	AWM I A/B FT I
BAT12C065	12	65	0.131	3.33	26.69	39.72	5360	AWM I A/B FT I
BAT10C105	10	105	0.164	4.16	42.19	62.79	5360	AWM I A/B FT I

MGT Thin Wall 450C/600V

Part No.	Awg. size	# strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
BBT22C007	22	7	0.084	2.13	6.06	9.03	5359	AWM I A/B FT I
BBT20C010	20	10	0.090	2.29	7.23	10.77	5359	AWM I A/B FT I
BBT18C016	18	16	0.097	2.46	9.53	14.20	5359	AWM I A/B FT I
BBT16C026	16	26	0.107	2.72	13.81	20.58	5359	AWM I A/B FT I
BBT14C041	14	41	0.121	3.07	18.19	27.10	5359	AWM I A/B FT I
BBT12C065	12	65	0.141	3.58	27.60	41.12	5359	AWM I A/B FT I
BBT10C105	10	105	0.190	4.83	48.54	72.32	5359	AWM I A/B FT I
BBT08C133	8	133	0.240	6.10	72.53	108.07	5359	AWM I A/B FT I
BBT06C133	6	133	0.281	7.14	105.82	157.67	5359	AWM I A/B FT I

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

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

450°C – 300 Volts - UL 5128 / CSA AWM I A/B FTI

450°C – 600 Volts - UL 5107 / CSA AWM I A/B FTI

CONSTRUCTION

Conductors

24 AWG – 6 AWG (300 Volts)

24 AWG – 2 AWG (600 Volts)

Stranded nickel-coated copper - 27%

(Other conductor materials available)

Insulating System

Mica Tape

Outer Covering

Fiberglass braid with high temperature finish

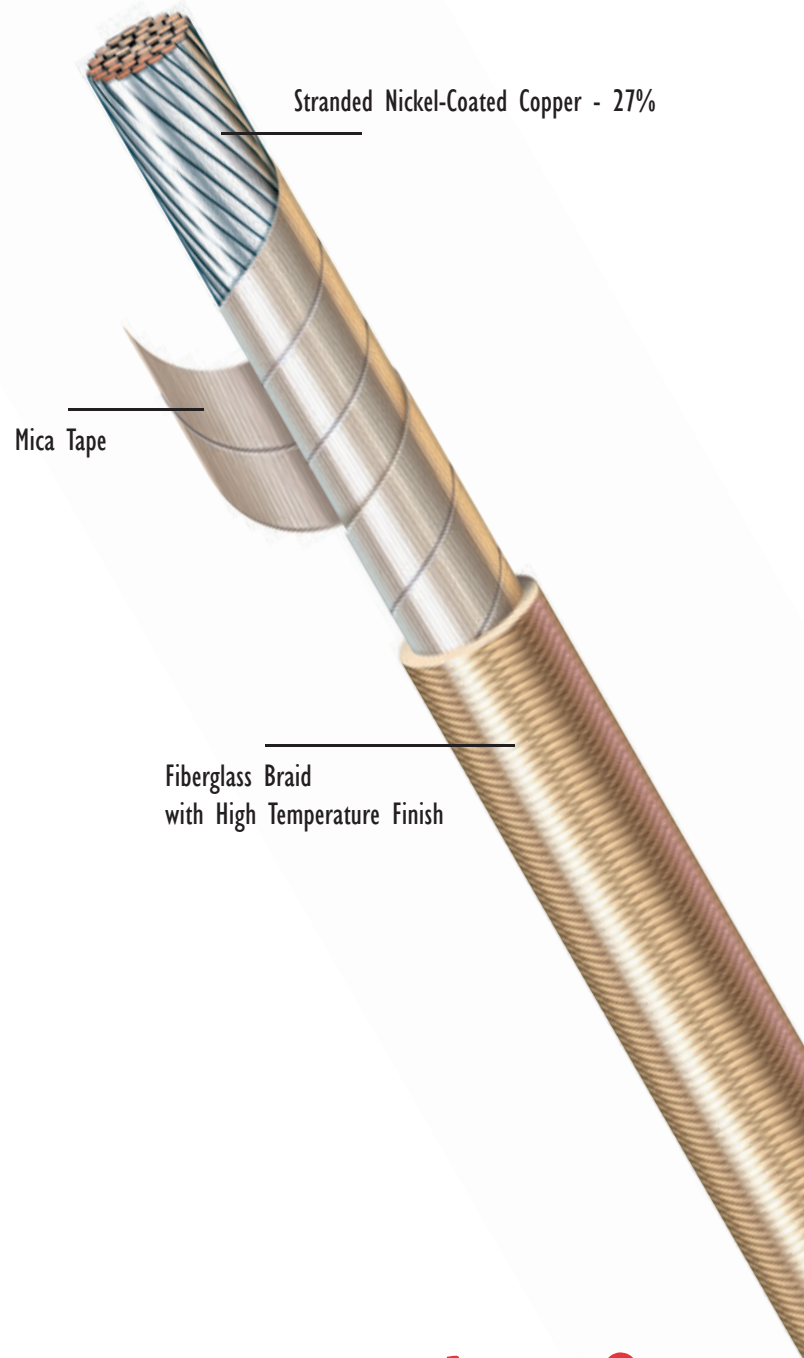
Standard Color Coding

Natural and Solid Colors

Colored Tracers

CHARACTERISTICS

- Resists braid fray and push back.
- Withstands mechanical abuse.



Radix™

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SPECIFICATIONS

MGT 450 HIGH-TEMPERATURE LEAD WIRE

MGT 450C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
BDT24C007	24	7	0.072	1.83	3.80	5.65	5128	AWM I A/B FT I
BDT22C007	22	7	0.082	2.08	5.33	7.93	5128	AWM I A/B FT I
BDT20C010	20	10	0.087	2.21	6.50	9.67	5128	AWM I A/B FT I
BDT18C016	18	16	0.095	2.41	8.75	13.02	5128	AWM I A/B FT I
BDT16C026	16	26	0.107	2.72	12.37	18.40	5128	AWM I A/B FT I
BDT14C041	14	41	0.121	3.07	17.41	25.91	5128	AWM I A/B FT I
BDT12C065	12	65	0.140	3.56	25.53	37.99	5128	AWM I A/B FT I
BDT10C105	10	105	0.189	4.80	46.80	69.64	5128	AWM I A/B FT I

MGT 450C/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL	CSA
BFT22C007	22	7	0.101	2.58	7.10	10.56	5107	AWM I A/B FT I
BFT20C010	20	10	0.106	2.69	8.35	12.42	5107	AWM I A/B FT I
BFT18C016	18	16	0.115	2.93	10.77	16.02	5107	AWM I A/B FT I
BFT16C026	16	26	0.127	3.23	14.55	21.65	5107	AWM I A/B FT I
BFT14C041	14	41	0.140	3.58	20.73	30.85	5107	AWM I A/B FT I
BFT12C065	12	65	0.160	4.06	29.37	43.71	5107	AWM I A/B FT I
BFT10C105	10	105	0.212	5.38	50.52	75.18	5107	AWM I A/B FT I
BFT08C133	8	133	0.262	6.65	74.29	110.56	5107	AWM I A/B FT I
BFT06C133	6	133	0.313	7.95	113.64	169.12	5107	AWM I A/B FT I
BFT04C133	4	133	0.368	9.35	167.42	249.16	5107	AWM I A/B FT I
BFT02C133	2	133	0.446	11.40	262.02	389.94	5107	AWM I A/B FT I

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

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RATINGS / APPROVALS

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

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

Maintains circuit integrity 2.5 hrs under ICEA T-29-520, 210,000 BTU/hr Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

18 AWG – 2 AWG
Stranded nickel-coated copper-27%
(Other conductor materials available)

Insulating System

Reinforced mica glass tape
Fiberglass braid with high temperature finish
Fire barrier tape wraps
PTFE moisture and fluid barrier

Outer Covering

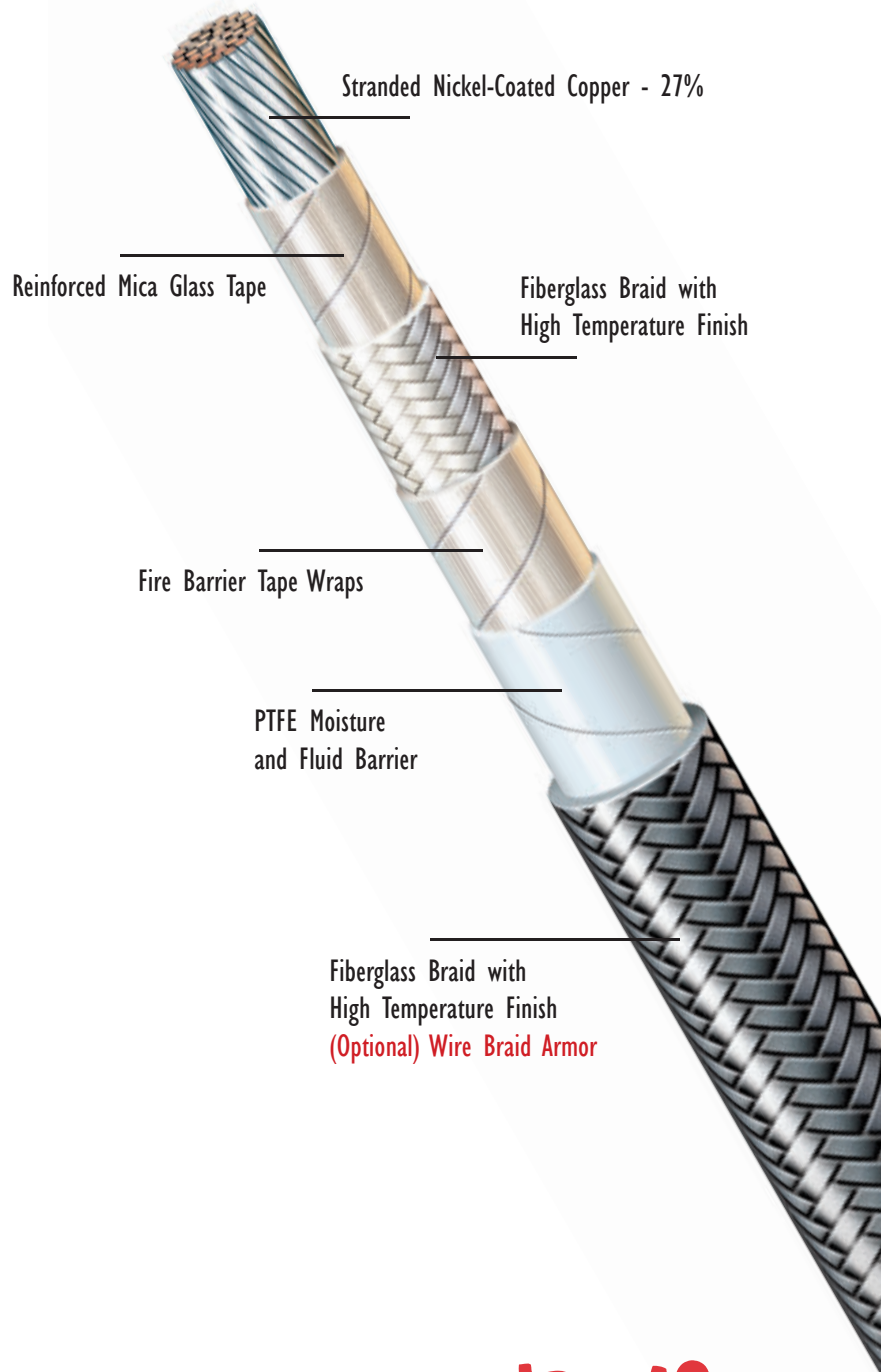
Braided fiberglass with a high temperature finish

Standard Color Coding

Black or Natural

CHARACTERISTICS

- Moisture, oil, fluid, and abrasion resistant
- Composed of flame-impervious inorganic materials
- Withstands mechanical abuse
- Not recommended for outdoor use



SPECIFICATIONS

TEMPERGARD 2000 HIGH-TEMPERATURE LEAD WIRE

TEMPERGARD 2000 450C(538C)/600V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
BKT18C016	18	16	0.167	4.11	18.61	27.69	n/a	n/a
BKT16C026	16	26	0.179	4.45	23.43	34.86	n/a	n/a
BKT14C041	14	41	0.189	5.03	31.43	46.77	n/a	n/a
BKT12C065	12	65	0.213	5.28	40.14	59.73	n/a	n/a
BKT10C105	10	105	0.266	6.78	66.91	99.57	n/a	n/a
BKT08C133	8	133	0.316	8.08	95.19	141.66	n/a	n/a
BKT06C133	6	133	0.357	9.22	133.62	198.85	n/a	n/a
BKT04C133	4	133	0.408	10.36	183.51	273.06	n/a	n/a
BKT02C133	2	133	0.482	12.24	279.70	416.26	n/a	n/a

Standard conductor: Nickel Coated Copper - 27%

Consult factory for alternate conductor and stranding options.

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200C/3KV, 200C/5KV,
200C/8KV, and 200C/15KV

HI VOLT SILICONE BRAIDLESS 200 HIGH-VOLT LEAD WIRE

RATINGS

200°C – 3 KV, 5 KV, 8 KV, 15 KV

CONSTRUCTION

Conductors

8 AWG to 500 MCM (3 KV, 5 KV, 8 KV)

8 AWG to 350 MCM (15 KV)

Stranded tinned copper

Insulating System

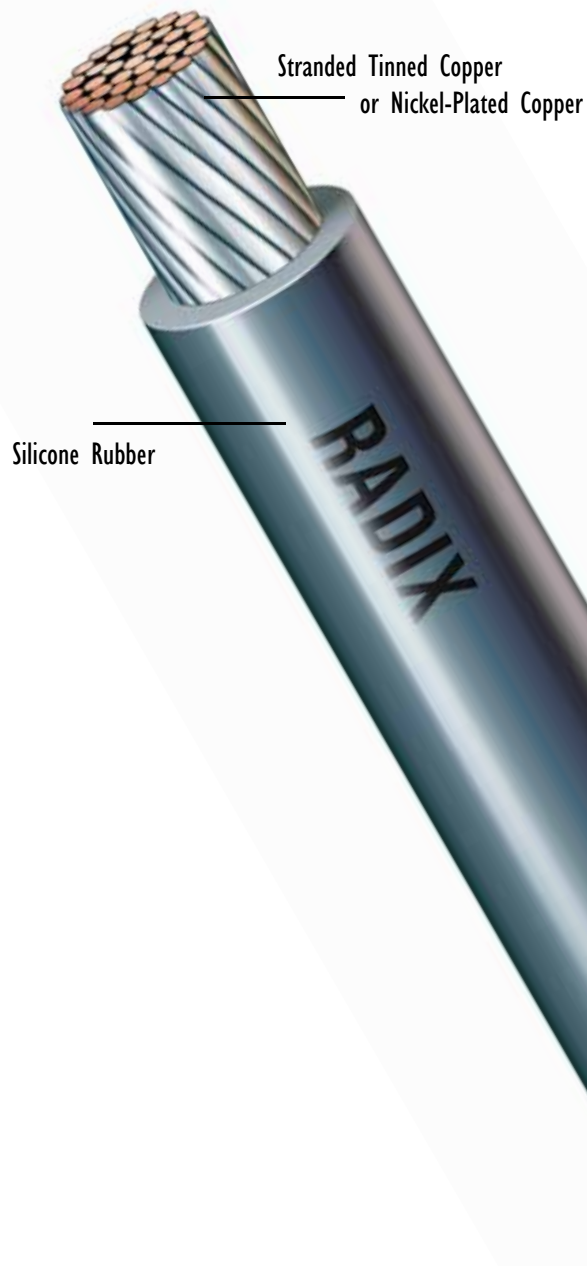
Extruded Silicone Rubber

Standard Color Coding

Available in Colors and Stripes

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C
- Superior flexibility



Radix[™]

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www.radix-wire.com

SPECIFICATIONS

HI VOLT SILICONE BRAIDLESS 200 HIGH-VOLT LEAD WIRE

SILICONE BRAIDLESS 200C/3KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	NEMA
JKA02T259	2	259	0.595	15.11	322.80	480.41	WC7I
JKA01T259	1	259	0.627	15.93	384.22	571.81	WC7I
JKAX1T259	1/0	259	0.690	17.53	468.69	697.53	WC7I
JKAX2T259	2/0	259	0.730	18.54	565.21	841.16	WC7I
JKAX4T259	4/0	259	0.840	21.34	839.61	1,249.53	WC7I
JKA35T427	350 MCM	427	1.030	26.16	1,334.08	1,985.43	WC7I

SILICONE BRAIDLESS 200C/5KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	NEMA
JLA02T259	2	259	0.635	16.13	345.08	513.56	WC7I
JLA01T259	1	259	0.667	16.94	407.66	606.69	WC7I
JLAX1T259	1/0	259	0.730	18.54	494.42	735.81	WC7I
JLAX2T259	2/0	259	0.770	19.56	592.38	881.60	WC7I
JLAX4T259	4/0	259	0.880	22.35	870.76	1,295.90	WC7I
JLA35T427	350 MCM	427	1.070	27.18	1,372.12	2,042.04	WC7I

SILICONE BRAIDLESS 200C/8KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	NEMA
JMA02T259	2	259	0.705	17.91	387.56	576.78	WC74
JMA01T259	1	259	0.737	18.72	452.17	672.93	WC74
JMAX1T259	1/0	259	0.800	20.32	542.92	807.99	WC74
JMAX2T259	2/0	259	0.840	21.34	643.42	957.55	WC74
JMAX4T259	4/0	259	0.950	24.13	928.77	1,382.24	WC74
JMA35T427	350 MCM	427	1.140	28.96	1,442.18	2,146.31	WC74

SILICONE BRAIDLESS 200C/15KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	NEMA
JNA02T259	2	259	0.915	23.24	541.63	806.07	WC74
JNA01T259	1	259	0.947	24.05	612.32	911.27	WC74
JNAX1T259	1/0	259	1.010	25.65	715.05	1,064.17	WC74
JNAX2T259	2/0	259	1.050	26.67	823.16	1,225.05	WC74
JNAX3T259	3/0	259	1.096	27.84	957.14	1,424.45	WC74
JNAX4T259	4/0	259	1.160	29.46	1,129.44	1,680.87	WC74
JNA35T427	350 MCM	427	1.350	34.29	1,678.98	2,498.72	WC74

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

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All dimensions listed above are nominal.

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 www.radix-wire.com

200C/10KVAC

High Volt DuraBlend®

HIGH-VOLT, HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

200°C - UL Style 3946 / 10KVAC
UL VW-I FLAME RATED

CONSTRUCTION

Conductors

22 AWG - 14 AWG

Stranded tinned copper or nickel-plated copper
(other conductor materials available)

Insulating System

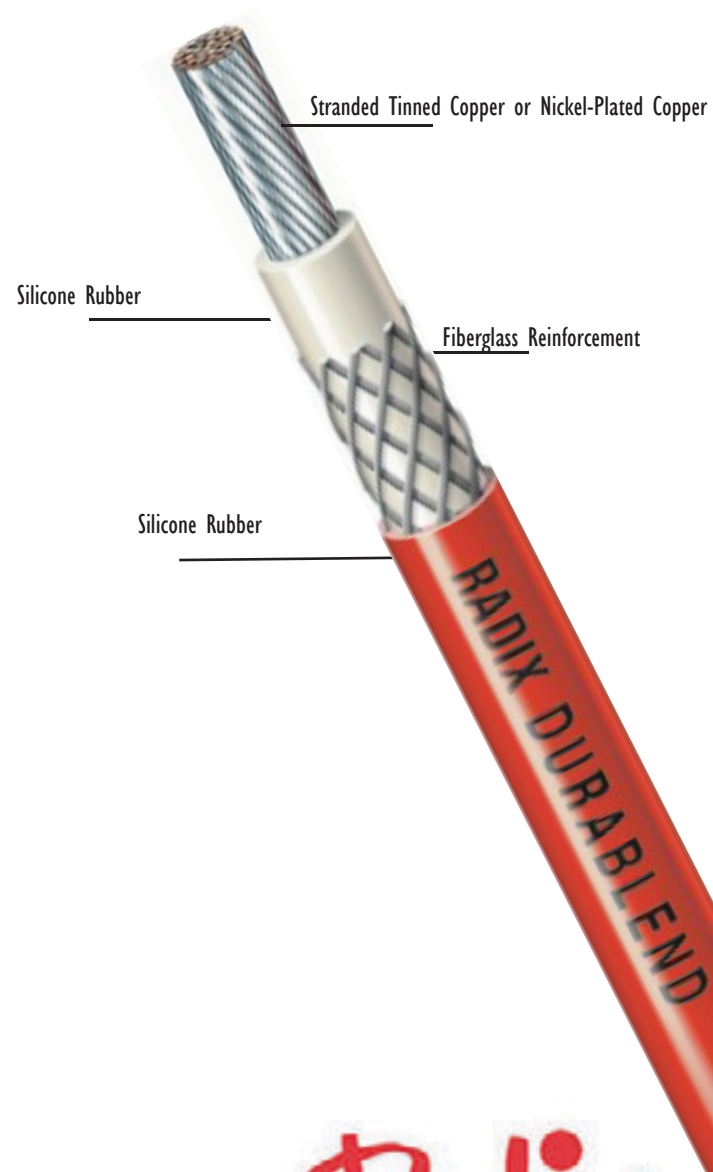
Composite Extruded Silicone Rubber with intermediate
fiberglass reinforcement

Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - Intermediate fiberglass reinforcement
 - Eliminates braid fraying, flowering and shrink back
 - Eliminates dermatitis
 - Significantly reduces airborne fiberglass contaminants traditionally found in high volume processing
 - Superior flexibility
 - Color stable at elevated temperatures
 - LSZH - Low Smoke Zero Halogen Silicone formulations
- Suitable for UV, ozone or moisture exposure
- Not suited for liquid immersed applications
- Suitable for applications down to -60°C



Radix

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SPECIFICATIONS

High Volt DuraBlend®

HIGH-VOLT, HIGH-TEMPERATURE LEAD WIRE

High Volt DuraBlend® 200C/10KVAC

Part No.	Awg. Size	# Strands	Outer Dia. Inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
NHA22P007	22	7	0.117	2.97	7.99	11.92	3946
NHA20P007	20	7	0.124	3.12	9.51	14.18	3946
NHA18T007	18	7	0.133	3.37	11.91	17.76	3946
NHA16T007	16	7	0.145	3.68	15.86	23.66	3946
NHA14T007	14	19	0.158	4.01	20.83	31.07	3946

The logo for Radix Wire, featuring the word "Radix" in a stylized, red, cursive font.

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150C/15KVDC,
150C/20KVDC, 150C/25KVDC
150C/30KVDC, and 150C/40KVDC

HI VOLT 3239
HIGH-VOLTAGE LEAD WIRE

RATINGS / APPROVALS

150°C — 15 KVDC - UL Style 3239
150°C — 20 KVDC - UL Style 3239 / CSA TV-20
150°C — 25 KVDC - UL Style 3239
150°C — 30 KVDC - UL Style 3239
150°C — 40 KVDC - UL Style 3239

CONSTRUCTION

Conductors
18 AWG — 10 AWG
Stranded tinned copper
(Other optional conductor materials available)

Insulating System
Extruded silicone rubber

Standard Color Coding
Available in Colors

CHARACTERISTICS

- UL VW-1 Flame rated.
- Radiation, ozone, and moisture resistant.
- Easy to strip.
- Very flexible.
- Suitable for applications to -60°C.



Radix™

Revised 1/16

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SPECIFICATIONS

HI VOLT 3239 HIGH-VOLTAGE LEAD WIRE

HI VOLT 3239 150C/15KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
HOA18T016	18	16	0.139	3.53	11.88	17.68	3239	n/a
HOA16T026	16	26	0.149	3.78	15.63	23.26	3239	n/a
HOA14T041	14	41	0.164	4.17	21.37	31.80	3239	n/a
HOA12T065	12	65	0.181	4.60	30.22	44.97	3239	n/a
HOA10T105	10	105	0.204	5.18	44.03	66.52	3239	n/a

HI VOLT 3239 150C/20KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
HPA18T016	18	16	0.139	3.53	12.59	18.74	3239	TV-20
HPA16T026	16	26	0.149	3.78	16.42	24.44	3239	TV-20
HPA14T041	14	41	0.164	4.17	21.37	31.80	3239	TV-20
HPA12T065	12	65	0.181	4.60	30.22	44.97	3239	TV-20
HPA10T105	10	105	0.204	5.18	44.03	66.52	3239	TV-20

HI VOLT 3239 150C/25KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
HTA18T016	18	16	0.151	3.84	13.26	19.73	3239	n/a
HTA16T026	16	26	0.161	4.09	17.11	25.46	3239	n/a
HTA14T041	14	41	0.176	4.47	23.00	34.23	3239	n/a
HTA12T065	12	65	0.193	4.90	32.00	47.62	3239	n/a

HI VOLT 3239 150C/30KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
HQA18T016	18	16	0.157	3.99	14.00	20.83	3239	n/a
HQA16T026	16	26	0.167	4.24	17.90	26.64	3239	n/a
HQA14T041	14	41	0.182	4.62	23.85	35.49	3239	n/a
HQA12T065	12	65	0.199	5.05	32.94	49.02	3239	n/a

HI VOLT 3239 150C/40KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL	CSA
HRA18T016	18	16	0.231	5.87	25.41	37.81	3239	n/a
HRA16T026	16	26	0.241	6.12	29.92	44.53	3239	n/a
HRA14T041	14	41	0.256	6.50	36.77	54.72	3239	n/a
HRA12T065	12	65	0.273	6.93	46.86	69.74	3239	n/a
HRA10T105	10	105	0.296	7.52	62.35	92.79	3239	n/a

Contact factory for alternative strandings, sizes and voltages.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LLI3427 or LL80670

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RATINGS / APPROVALS

250°C – 25 KVDC - UL Style 1911

250°C – 30 KVDC - UL Style 1911

CONSTRUCTION

Conductors

24 AWG – 10 AWG

Stranded nickel plated copper - 2%

(Other conductor materials available)

Insulating System

Extruded perfluoroalkoxy copolymer (PFA)

Standard Color Coding

Available in Colors

CHARACTERISTICS

- Offers smallest outside diameter of 250°C hi volt wires for ease in installation and lower assembly costs.



Stranded Nickel-Plated Copper - 2%

PFA Insulation

Radix[™]

Radix Wire Company

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HI VOLTAGE 1911 250C/25KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
GEA24P007	24	7	0.078	1.98	5.43	8.08	1911
GEA22P007	22	7	0.084	2.13	6.61	9.83	1911
GEA20P007	20	7	0.090	2.29	8.08	12.02	1911
GEA18P019	18	19	0.098	2.49	10.53	15.67	1911
GEA16P026	16	26	0.110	2.79	14.56	21.67	1911
GEA16P019	16	19	0.110	2.79	14.56	21.67	1911
GEA14P041	14	41	0.126	3.20	20.53	30.55	1911
GEA12P065	12	65	0.144	3.67	29.88	44.47	1911

HI VOLTAGE 1911 250C/30KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
GLA22P007	22	7	0.092	2.34	7.64	11.36	1911
GLA20P007	20	7	0.098	2.49	9.18	13.66	1911
GLA18P019	18	19	0.106	2.69	11.73	17.45	1911
GLA16P026	16	26	0.118	3.00	15.90	23.65	1911
GLA16P019	16	19	0.118	3.00	15.90	23.65	1911
GLA14P041	14	41	0.134	3.40	22.05	32.81	1911

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

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All dimensions listed above are nominal.
Compliance: UL Listed File No. E22244

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RATINGS / APPROVALS

200°C – 7.5 KV - UL Style 3576

200°C – 10 KV - UL Style 3573

CONSTRUCTION

Conductors

22 AWG – 12 AWG

Stranded tinned copper or nickel-plated copper
(Other optional conductor materials available)

Insulating System

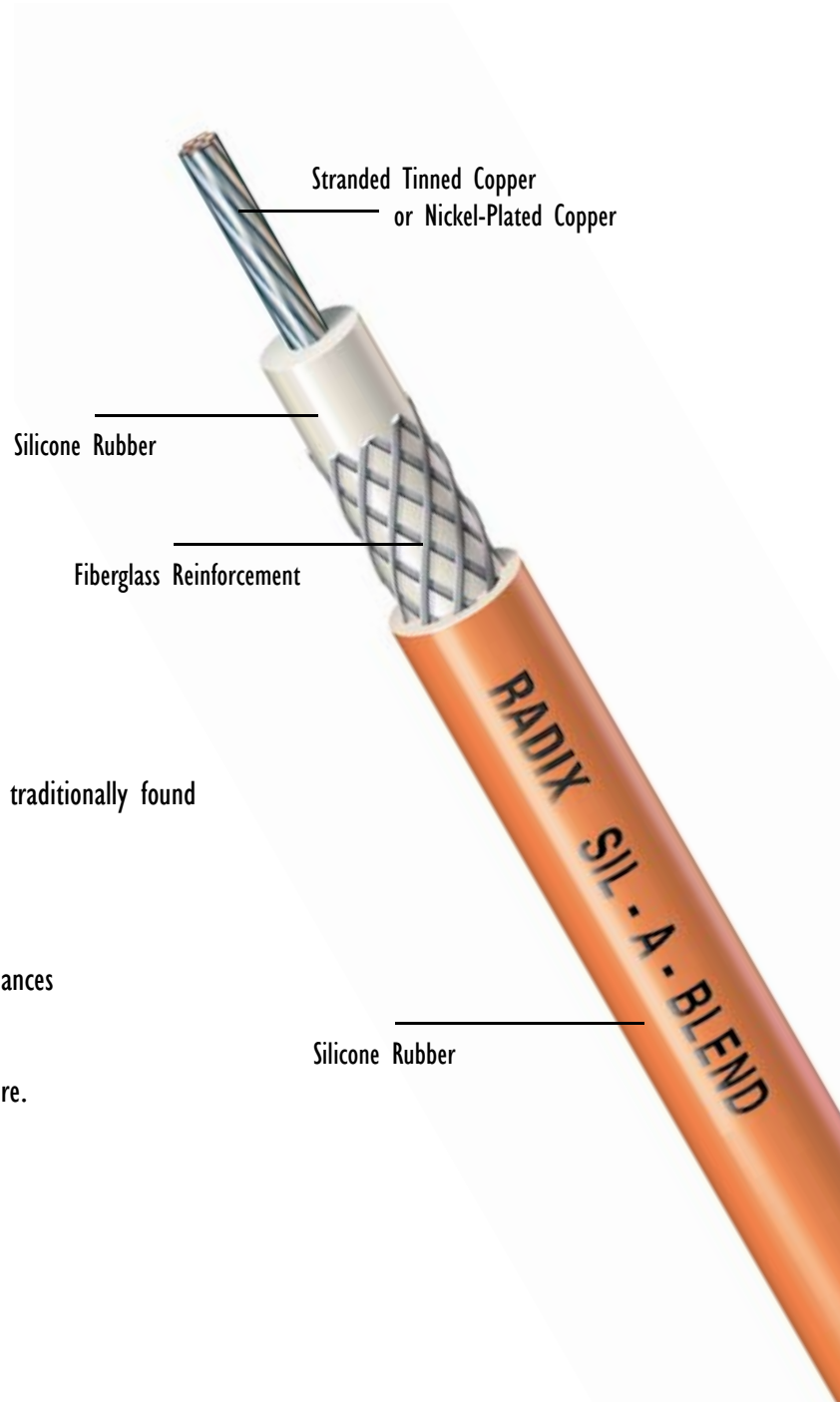
Composite Extruded Silicone Rubber with intermediate fiberglass reinforcement

Standard Color Coding

Available in Colors

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Smaller OD, lighter weight, tighter bend radius.
 - ~ Durable outer jacket.
 - ~ Eliminates braid fraying, flowering and shrink back.
 - ~ Virtually eliminates skin irritation.
 - ~ Significantly reduces airborne fiberglass contaminants traditionally found in high volume processing.
 - ~ Superior flexibility.
 - ~ Color stable at elevated temperatures.
 - ~ Low smoke.
 - ~ Specially formulated outer silicone jacket greatly enhances abrasion resistance.
 - ~ Suitable for varnish dip and bake applications.
- Silicone formulations suitable for UV, ozone, moisture exposure. Not suited for immersed applications.
- Suitable for applications to -60°C.



Radix[™]

Radix Wire Company

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SPECIFICATIONS

HI VOLT SIL-A-BLEND[®] 200 HIGH-VOLTAGE LEAD WIRE

SIL-A-BLEND 200C/7.5KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
NDA22P007	22	7	0.100	2.54	6.61	9.83	3576
NDA20P007	20	7	0.110	2.79	8.36	12.44	3576
NDA18T007	18	7	0.123	3.02	10.77	16.02	3576
NDA16T007	16	7	0.134	3.30	14.38	21.40	3576
NDA14T007	14	7	0.148	3.66	19.95	29.69	3576
NDA12T019	12	19	0.166	4.11	28.52	42.44	3576

SIL-A-BLEND 200C/10KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
NEA22P007	22	7	0.120	3.00	8.02	11.93	3573
NEA20P007	20	7	0.126	3.30	10.16	15.12	3573
NEA18T007	18	7	0.139	3.53	12.66	18.84	3573

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)
Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.
All dimensions listed above are nominal.
Compliance: UL Listed File No. E22244

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RATINGS / APPROVALS**250°C – 10 KVAC - UL Style 3634****CONSTRUCTION****Conductors**

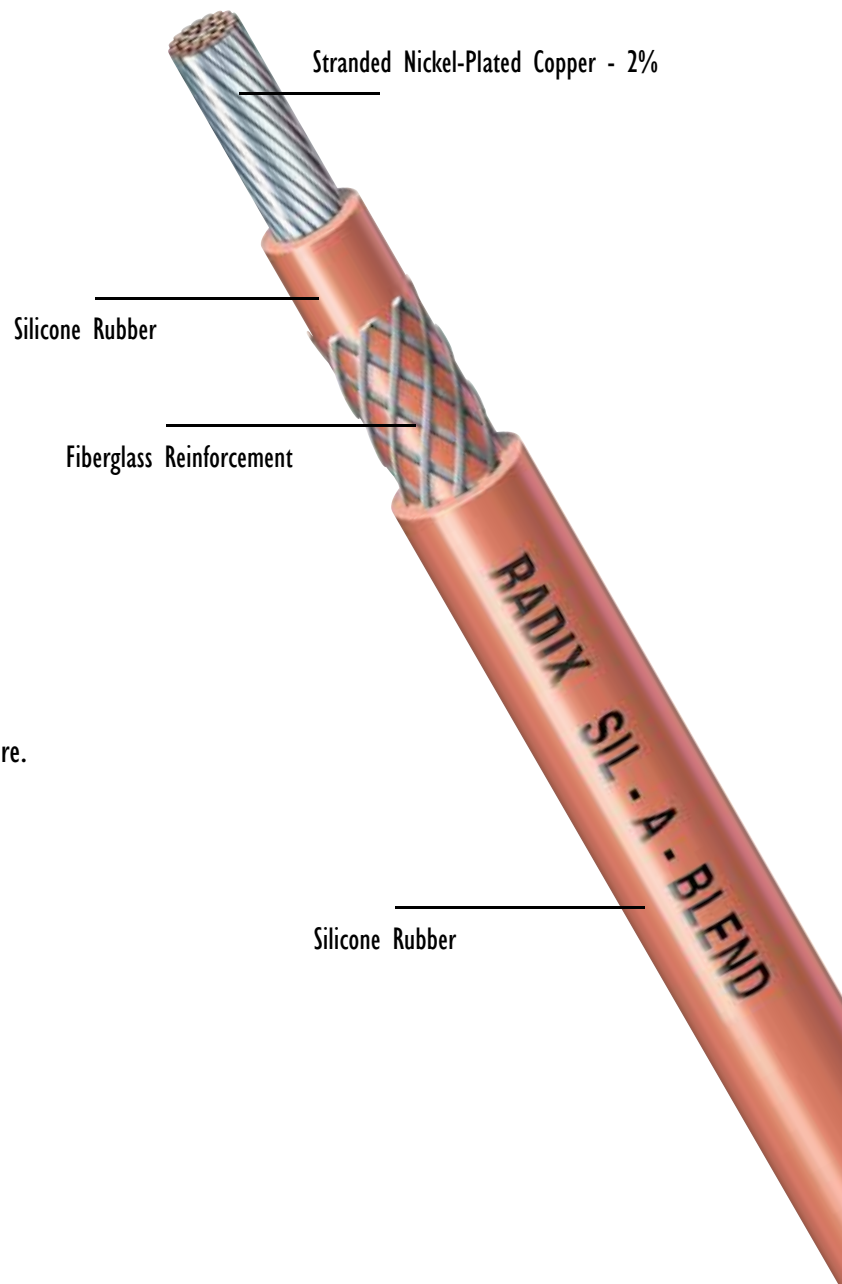
22 AWG – 12 AWG

Stranded nickel-plated copper - 2%
(Other conductor materials available)**Insulating System**Composite Extruded Silicone Rubber with
intermediate fiberglass reinforcement**Standard Color Coding**

Iron Oxide Red with Colored Markings

CHARACTERISTICS

- Outperforms Braided Silicone products:
 - ~ Eliminates braid fraying, flowering and shrink back.
 - ~ Virtually eliminates skin irritation.
 - ~ Significantly reduces airborne fiberglass contaminants traditionally found in high volume processing.
 - ~ Superior flexibility.
 - ~ Color stable at elevated temperatures.
 - ~ Low smoke.
- Silicone formulations suitable for UV, ozone, moisture exposure.
Not suited for immersed applications.
- Suitable for applications to -60°C


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SPECIFICATIONS

HI VOLT SIL-A-BLEND® 250 HIGH-VOLTAGE LEAD WIRE

SIL-A-BLEND 250C/10KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
NKA22P007	22	7	0.120	3.04	8.05	11.98	3634
NKA20P007	20	7	0.126	3.20	9.54	14.20	3634
NKA18P019	18	19	0.133	3.38	11.75	17.49	3634
NKA16P026	16	26	0.149	3.79	16.60	24.71	3634
NKA14P041	14	41	0.161	4.10	21.59	32.14	3634
NKA12P065	12	65	0.181	4.61	30.95	46.07	3634

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.
All dimensions listed above are nominal.
Compliance: UL Listed File No. E22244

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200C/7.5KVAC, 200C/10KVAC
and 230C/10KVAC

HI VOLT SILICONE 200/230 HIGH-VOLTAGE LEAD WIRE

RATINGS / APPROVALS

200°C – 7.5 KV - UL Style 3479

200°C – 10 KV - UL Style 3304

230°C – 10 KV - UL Style 3404

CONSTRUCTION

Conductors

22 AWG – 12 AWG

Stranded tinned copper or nickel-plated copper
(Other conductor materials available)

Insulating System

Extruded Silicone Rubber

Outer Covering

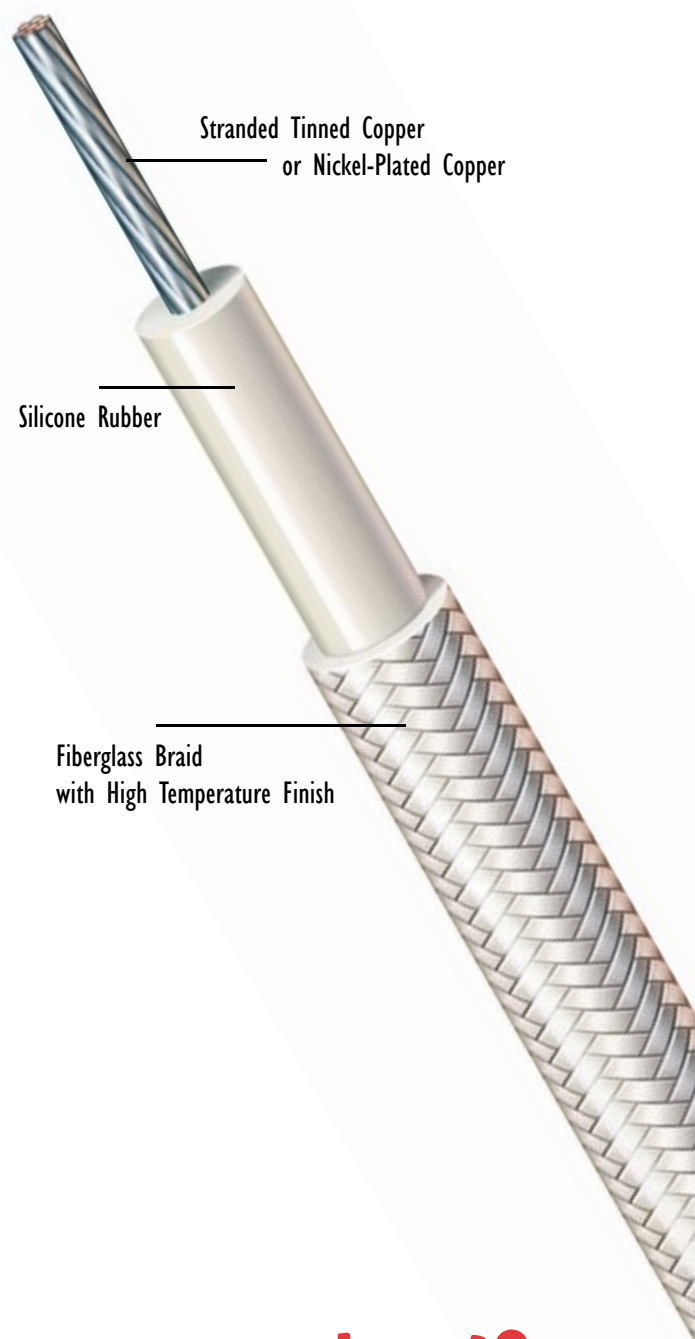
Braided fiberglass with a high temperature finish

Standard Color Coding

Available in Colors or Striped Combinations

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Not suited for immersed applications.
- Suitable for applications to -60°C.
- Silicone Rubber in extreme environments, exceeding rated temperature, leaves a non-conductive ash and retains excellent insulation properties.



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SPECIFICATIONS

HI VOLT SILICONE 200/230 HIGH-VOLTAGE LEAD WIRE

HI VOLT SILICONE 200C/7.5KVAC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
EAF22P007	22	7	0.102	2.59	6.64	9.88	3479
EAF20P007	20	7	0.108	2.74	7.98	11.87	3479
EAF18T007	18	7	0.116	2.95	10.45	15.55	3479
EAF16T007	16	7	0.126	3.20	14.03	20.88	3479
EAF14T007	14	7	0.140	3.56	19.54	29.08	3479
EAF12T019	12	19	0.160	4.06	28.20	41.96	3479

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)

HI VOLT SILICONE 200C/10KVAC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
EBF22P007	22	7	0.122	3.10	8.86	13.18	3304
EBF20P007	20	7	0.128	3.25	10.33	15.37	3304
EBF18T007	18	7	0.138	3.51	11.54	17.17	3304
EBF16T007	16	7	0.150	3.81	15.41	22.93	3304
EBF14T007	14	7	0.165	4.19	21.25	31.62	3304
EBF12T019	12	19	0.184	4.67	31.23	46.47	3304

Standard conductor: Tinned Copper (Standard conductor for 20-22 AWG ONLY: Nickel Plated Copper-2%)

HI VOLT SILICONE 230C/10KVAC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
ECC22P007	22	7	0.128	3.25	9.69	14.42	3404
ECC20P007	20	7	0.134	3.40	11.19	16.65	3404
ECC18P019	18	19	0.140	3.51	13.50	20.09	3404
ECC16P026	16	26	0.152	3.86	17.76	26.43	3404
ECC14P041	14	41	0.167	4.24	23.62	35.15	3404
ECC12P065	12	65	0.186	4.72	33.23	49.45	3404

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LLI3427 or LL80670

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10KV

HIVOLT ETFE 200 (TEFZEL® 750) HIGH-VOLTAGE LEAD WIRE

RATINGS / APPROVALS

200°C – 10KV - UL Style 10202, 10185

CONSTRUCTION

Conductors

22 AWG – 18 AWG

Stranded tinned copper or nickel-plated copper
(Optional conductor materials available)

Insulating System

Modified ethylene tetrafluoroethylene
copolymer (*Tefzel® 750)

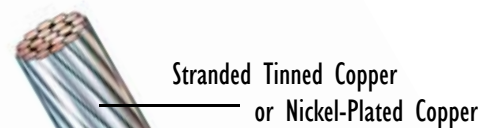
Standard Color Coding

Available in Colors

CHARACTERISTICS

- Outstanding chemical and fluid resistance.
- Heat age and ozone resistant.
- Easily stripped and terminated.

*Tefzel is a registered trademark of E.I. DuPont de Nemours



Stranded Tinned Copper
or Nickel-Plated Copper

*Tefzel® 750 insulation



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Revised 08/08

SPECIFICATIONS

HIVOLT ETFE 200 (TEFZEL® 750) HIGH-VOLTAGE LEAD WIRE

ETFE 200C/10 KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
FPA22P007	22	7	0.0600	1.52	3.84	5.71	10202, 10185
FPA22T003	22	3	0.0620	1.57	3.82	5.69	10202, 10185
FPA20P007	20	7	0.0670	1.70	5.10	7.59	10202, 10185
FPA18T007	18	7	0.0750	1.91	7.17	10.67	10202, 10185

Standard conductor: Tinned Copper for 18 AWG and 22 AWG 3 strand (Nickel Plated Copper-2% for 20 and 22 AWG 7 strand)
Consult factory for alternate conductor and stranding options,

© Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LLI3427 or LL80670

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Radix Wire Company
26000 Lakeland Boulevard • Cleveland, OH 44132
Tel: 216 731-9191 • Fax: 216 731-7082
www.radix-wire.com

250-5/64 250C/10KVAC/25KVDC
250-7/64 250C/10KVAC/25KVDC

SGI 250
HIGH-VOLTAGE LEAD WIRE

RATINGS / APPROVALS

250°C – 10 KVAC / 25 KVDC – UL Style 3257

CONSTRUCTION

Conductors

22 AWG – 12 AWG

Stranded nickel-plated copper - 2%

(Other optional conductor materials available)

Insulating System

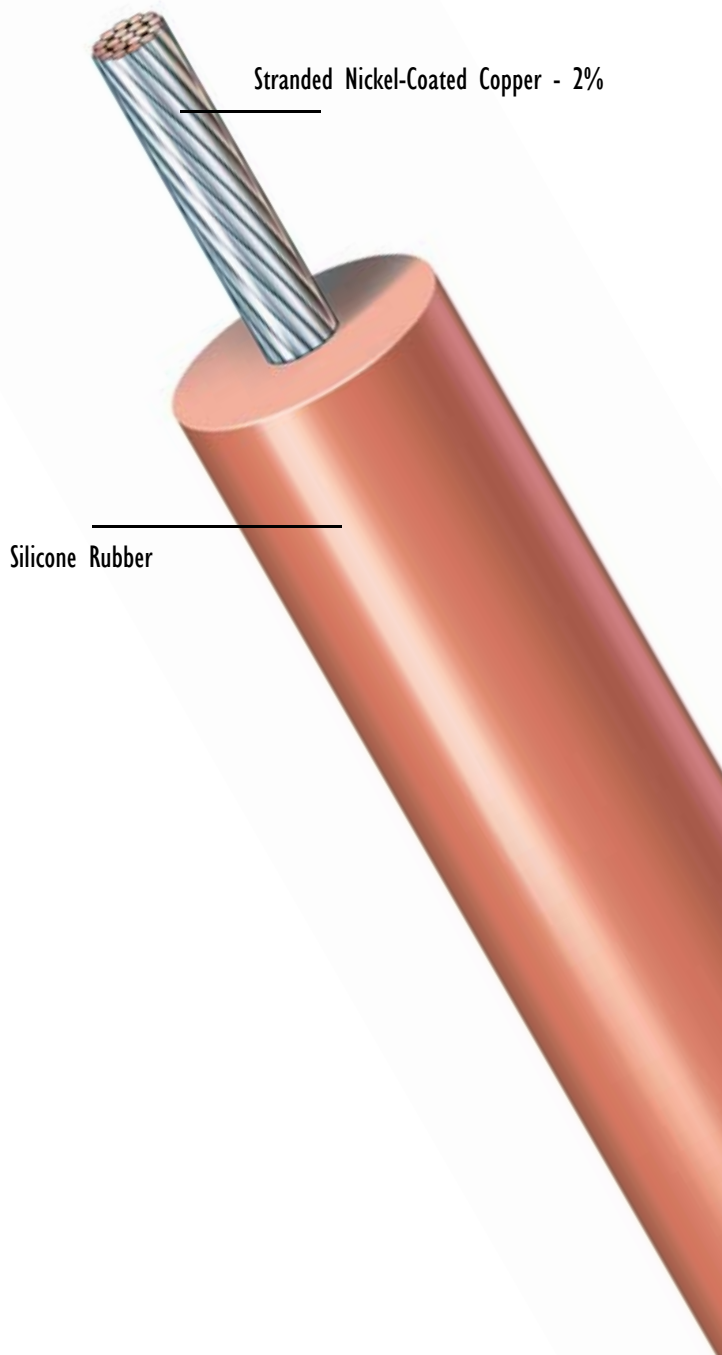
Extruded silicone rubber

Standard Color Coding

Available in Red Iron Oxide

CHARACTERISTICS

- Available with either 5/64" Standard or 7/64" corona resistant wall silicone rubber insulation.
- Silicone formulations suitable for UV, Ozone moisture exposure. Not suited for immersed applications.
- Suitable for applications to -60°C



Radix[™]

Radix Wire Company

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SGI 250-5/64 250C/10KVAC AND 250C/25KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
EDA22P007	22	7	0.190	4.83	17.56	26.13	3257
EDA20P007	20	7	0.196	4.98	19.70	29.31	3257
EDA18P019	18	19	0.204	5.18	22.35	33.26	3257
EDA16P026	16	26	0.216	5.49	27.12	40.36	3257
EDA14P041	14	41	0.231	5.87	33.82	50.33	3257
EDA12P065	12	65	0.252	6.40	44.38	66.04	3257

SGI 250-7/64 250C/10KVAC AND 250C/25KVDC

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km	UL
EEA22P007	22	7	0.254	6.45	30.04	44.70	3257
EEA20P007	20	7	0.260	6.60	32.22	47.95	3257
EEA18P019	18	19	0.268	6.81	35.62	53.01	3257
EEA16P026	16	26	0.280	7.11	41.06	61.10	3257
EEA14P041	14	41	0.295	7.49	48.61	72.34	3257
EEA12P065	12	65	0.314	7.98	59.95	89.22	3257

Standard conductor: Nickel Plated Copper - 2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.

All dimensions listed above are nominal.

Compliance: UL Listed File No. E22244 • CSA Certified File No. LL13427 or LL80670

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RATINGS / APPROVALS

180°C / 200°C - 1.1KVAC UL Style 3640/3907

180°C / 200°C - 3.3KVAC UL Style 3641/3908

180°C / 200°C - 6.9KVAC UL Style 3642/3909

180°C / 200°C - 13.8KVAC UL Style 3643/3910

IEC 60331, IEC 60332-1-2-3, IEC 60754-1, IEC 60754-2, IEC 61034, IEC 60332-3

RoHS Compliant

CONSTRUCTION

Conductors

12AWG – 4/0 AWG

Stranded tinned copper

Class H stranding

(Optional mm² conductors available)

Insulating System

Silicone Rubber

Outer Covering

Treated synthetic yarn braid with high temperature finish

Standard Color Coding

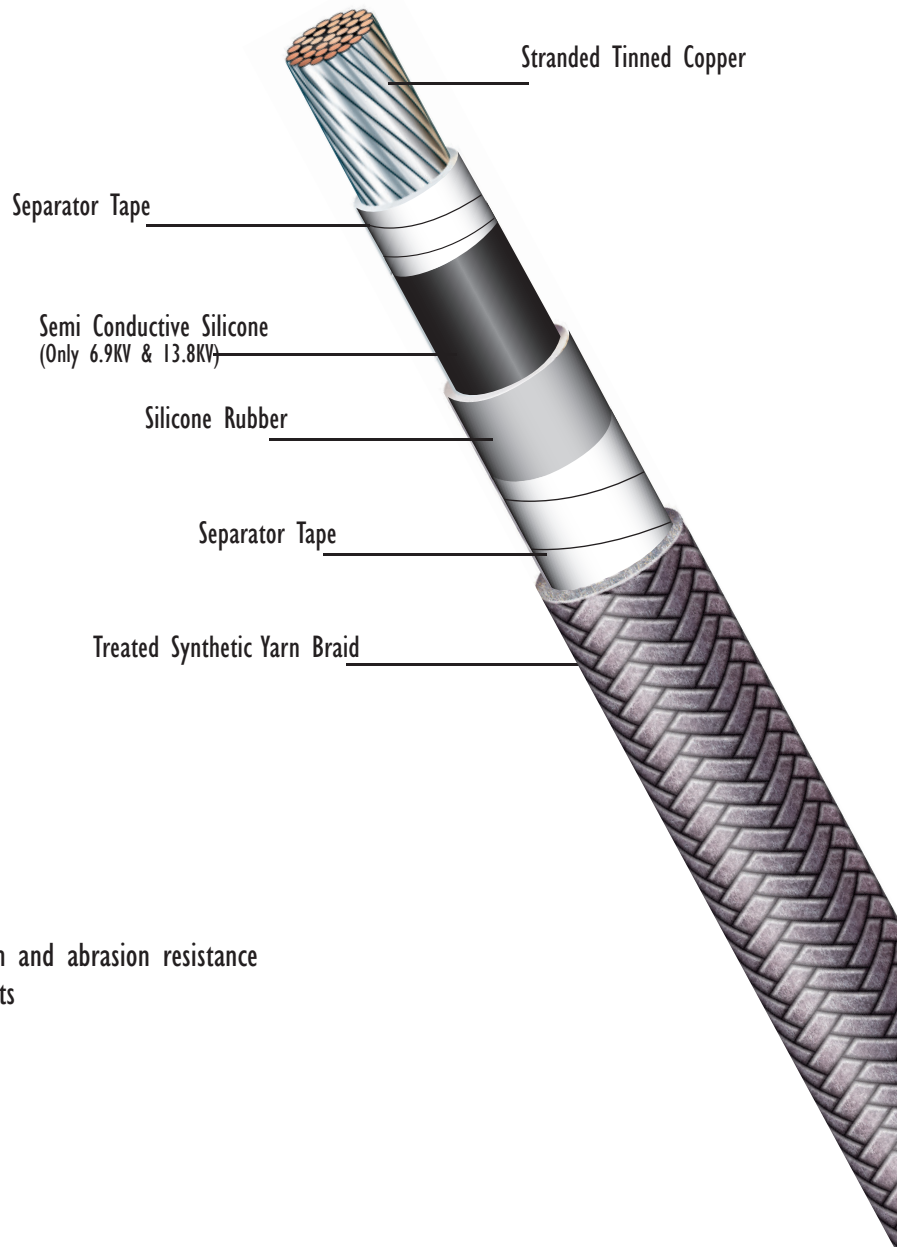
- 1.1 KVAC - Yellow
- 3.3 KVAC - Red
- 6.9 KVAC - Gray
- 13.8 KVAC - Black

CHARACTERISTICS

- Outstanding flexibility
- Excellent mechanical strength with superior cut through and abrasion resistance
- Reduced diameter compared to NEMA high volt products
- Operating temperature from -60°C to 200°C
- Low smoke / Zero Halogen
- Suitable for varnish dip and bake applications

APPLICATIONS

Transformers, Motors, Generators, Panels



Radix™

Radix Wire

26000 Lakeland Boulevard • Cleveland, OH 44132
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www.radix-wire.com

SPECIFICATIONS

SilaVolt 180C/200C/1.1KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
JOM04T133	4	133	.397	10.08	175.06	260.53	3640/3907
JOM02T377	2	259	.464	11.78	262.18	390.18	3640/3907
JOMX1T377	1/0	259	.569	14.45	407.42	606.33	3640/3907
JOMX2T377	2/0	259	.622	15.79	502.22	747.42	3640/3907
JOMX3T377	3/0	259	.682	17.32	620.84	923.96	3640/3907
JOMX4T377	4/0	259	.749	19.02	769.32	1144.93	3640/3907

SilaVolt 180C/200C/3.3KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
JPM04T133	4	133	.437	11.10	185.41	281.88	3641/3908
JPM02T377	2	259	.504	12.80	278.97	415.17	3641/3908
JPMX1T377	1/0	259	.589	14.96	418.00	622.08	3641/3908
JPMX2T377	2/0	259	.642	16.31	513.75	764.58	3641/3908
JPMX3T377	3/0	259	.702	17.83	633.46	942.74	3641/3908
JPMX4T377	4/0	259	.769	19.53	783.16	1165.53	3641/3908

SilaVolt 180C/200C/6.9KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
JQM04T133	4	133	.469	11.91	155.58	231.54	3642/3909
JQM02T377	2	259	.536	13.61	238.25	354.57	3642/3909
JQMX1T377	1/0	259	.621	15.77	434.50	646.64	3642/3909
JQMX2T377	2/0	259	.674	17.12	531.66	791.23	3642/3909
JQMX3T377	3/0	259	.734	18.64	652.05	970.40	3642/3909
JQMX4T377	4/0	259	.801	20.34	804.42	1197.16	3642/3909

SilaVolt 180C/200C/13.8KV

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft	Wgt - kg per km	UL
JRM06T084	6	84	.522	13.26	188.56	280.62	3643/3910
JRM04T133	4	133	.571	14.50	251.19	373.83	3643/3910
JRM02T377	2	259	.638	16.20	348.77	518.98	3643/3910
JRMX1T377	1/0	259	.723	18.36	496.93	739.55	3643/3910
JRMX2T377	2/0	259	.776	19.71	598.99	891.44	3643/3910
JRMX3T377	3/0	259	.836	21.23	725.81	1080.11	3643/3910
JRMX4T377	4/0	259	.903	22.93	883.46	1314.79	3643/3910

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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Conductor Area mm ²	Standard Metric Size	AWG Value
107.20	-	4/0
95.00	95	-
85.00	-	3/0
70.00	70	-
67.50	-	2/0
53.40	-	1/0
50.00	50	-
42.40	-	1
35.00	35	-
34.00	-	2
26.70	-	3
25.00	25	-
21.20	-	4
16.80	-	5
16.00	16	-
13.30	-	6
10.60	-	7
10.00	10.0	-
8.35	-	8
6.62	-	9
6.00	6.0	-
5.27	-	10
4.15	-	11
4.00	4.0	-
3.31	-	12
2.63	-	13
2.50	2.5	-
2.08	-	14
1.85	-	15
1.50	1.5	-
1.31	-	16
1.00	1.0	-
0.82	-	18



Radix Wire
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www.radix-wire.com

200C/600V

BRAIDED FEP/FEP HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

200°C – 600 Volts

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Flame Test

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Extruded fluorinated ethylene propylene (FEP) fluoropolymer insulation with fiberglass braid cover over each insulated conductor. Braid is treated with a moisture and high temperature resistant finish for K-2 color coding. (Unless specified)

Overall Binder Tapes

Nomex®

Outer Covering

Extruded fluorinated ethylene propylene (FEP) fluoropolymer outer jacket.

Standard Color

Black (Colors available)

CHARACTERISTICS

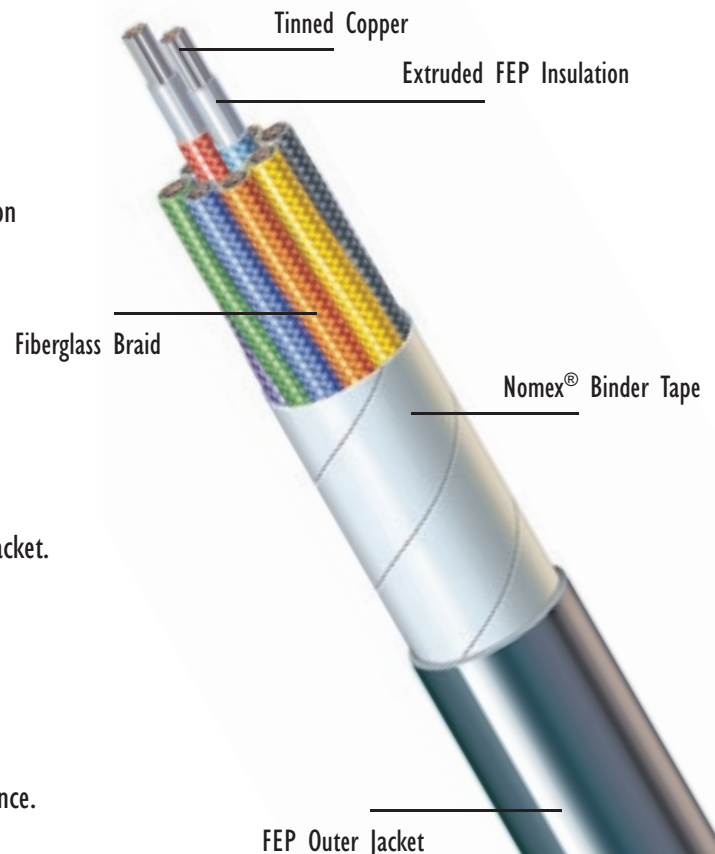
- FEP leads have outstanding chemical, fluid, age and ozone resistance.
- Fillers, where needed, are made with flame impervious fibers with moisture repellent finish.
- Cable utilizes Radix “Torque Free” design. This eliminates memory found in traditional right hand or left hand twisted cables.
- Small diameter.

APPLICATION

Multiple conductor cables insulated and jacket with FEP Teflon® are widely used in industrial high temperature applications where resistance to abrasion and mechanical abuse coupled with moisture or fluid resistance are desired. This wire is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and in chemical processing plants. Use above or below grade in raceway, tray, or conduit.

Nomex® is a registered trademark of DuPont.

ISO 9001:2000
CERTIFIED



Radix™

Radix Wire Company

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www.radix-wire.com

SPECIFICATIONS

BRAIDED FEP/FEP HIGH-TEMPERATURE CABLE

BRAIDED FEP/FEP 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
FT18AT02A	18	7	2	0.215	5.46	31.18	46.40
FT18AT03A	18	7	3	0.228	5.79	42.18	62.77
FT18AT04A	18	7	4	0.251	6.38	51.21	76.21
FT18AT05A	18	7	5	0.284	7.21	67.56	100.55
FT18AT06A	18	7	6	0.312	7.92	79.35	118.09
FT16AT02A	16	7	2	0.236	5.99	39.65	59.01
FT16AT03A	16	7	3	0.252	6.40	54.53	81.15
FT16AT04A	16	7	4	0.283	7.19	69.92	104.06
FT16AT05A	16	7	5	0.314	7.98	88.01	130.98
FT16AT06A	16	7	6	0.345	8.76	103.76	154.42
FT14AT02A	14	7	2	0.267	6.78	54.28	80.78
FT14AT03A	14	7	3	0.290	7.37	76.73	114.19
FT14AT04A	14	7	4	0.319	8.10	96.21	143.18
FT14AT05A	14	7	5	0.355	9.02	120.65	179.56
FT14AT06A	14	7	6	0.390	9.91	142.75	212.45
FT12CT02A	12	19	2	0.308	7.82	78.08	116.20
FT12CT03A	12	19	3	0.328	8.33	106.39	158.33
FT12CT04A	12	19	4	0.362	9.19	135.36	201.45
FT12CT05A	12	19	5	0.402	10.21	169.33	252.00
FT12CT06A	12	19	6	0.442	11.23	200.97	299.09
FT10CT02A	10	19	2	0.362	9.19	111.50	165.94
FT10CT03A	10	19	3	0.387	9.83	156.58	233.03
FT10CT04A	10	19	4	0.427	10.85	200.10	297.80
FT10CT05A	10	19	5	0.486	12.34	256.91	382.34
FT10CT06A	10	19	6	0.534	13.56	305.05	453.99

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

© Registered trademark of Radix.
All dimensions listed above are nominal.

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Radix Wire Company
26000 Lakeland Boulevard • Cleveland, OH 44132
Tel: 216 731-9191 • Fax: 216 731-7082
www.radix-wire.com

RATINGS / APPROVALS

200°C – 600 Volts

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Colored extruded fluorinated ethylene propylene (FEP) fluoropolymer insulation.

K-2 color code. (Unless specified)

Overall Binder Tapes

Nomex®

Outer Covering

Extruded fluorinated ethylene propylene (FEP) fluoropolymer outer jacket.

Standard Color

Black (Colors available)

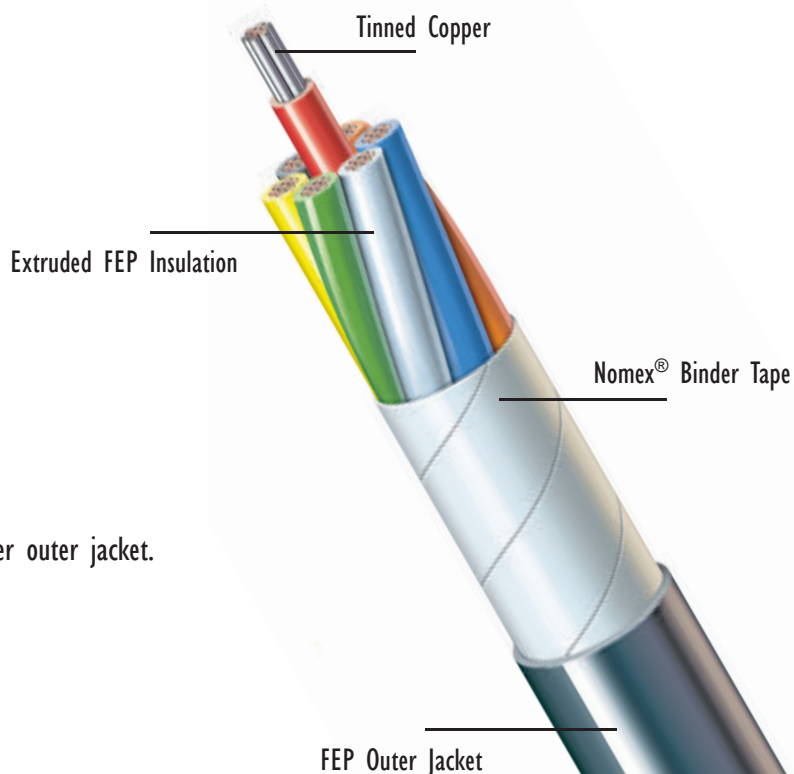
CHARACTERISTICS

- FEP leads have outstanding chemical, fluid, age and ozone resistance.
- 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.
- Small diameter.

APPLICATION

Multiple conductor cables insulated and jacket with FEP Teflon® are widely used where small O.D. is required in industrial high temperature applications where resistance to abrasion and mechanical abuse coupled with moisture or fluid resistance are desired. This wire is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and in chemical processing plants. Use above or below grade in raceway, tray, or conduit.

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Radix™

FEP/FEP 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
FQ18AT02A	18	7	2	0.186	4.72	26.04	38.75
FQ18AT03A	18	7	3	0.198	5.03	34.94	52.00
FQ18AT04A	18	7	4	0.217	5.51	41.80	62.21
FQ18AT05A	18	7	5	0.240	6.10	51.16	76.14
FQ18AT06A	18	7	6	0.264	6.71	60.52	90.07
FQ16AT02A	16	7	2	0.211	5.36	34.55	51.42
FQ16AT03A	16	7	3	0.225	5.72	47.29	70.38
FQ16AT04A	16	7	4	0.247	6.27	58.05	86.39
FQ16AT05A	16	7	5	0.274	6.96	73.67	109.64
FQ16AT06A	16	7	6	0.307	7.80	89.61	133.36
FQ14AT02A	14	7	2	0.242	6.15	48.58	72.30
FQ14AT03A	14	7	3	0.257	6.53	66.08	98.34
FQ14AT04A	14	7	4	0.289	7.34	85.33	126.99
FQ14AT05A	14	7	5	0.321	8.15	107.24	159.60
FQ14AT06A	14	7	6	0.352	8.94	126.80	188.71
FQ12CT02A	12	19	2	0.282	7.16	70.15	104.40
FQ12CT03A	12	19	3	0.301	7.65	96.78	144.03
FQ12CT04A	12	19	4	0.331	8.41	122.83	182.80
FQ12CT05A	12	19	5	0.368	9.35	153.86	228.98
FQ12CT06A	12	19	6	0.404	10.26	182.55	271.68
FQ10CT02A	10	19	2	0.337	8.56	103.74	154.39
FQ10CT03A	10	19	3	0.360	9.14	145.45	216.46
FQ10CT04A	10	19	4	0.397	10.08	185.54	276.13
FQ10CT05A	10	19	5	0.442	11.23	231.84	345.03
FQ10CT06A	10	19	6	0.497	12.62	283.01	421.19

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

200°C – 600 Volts

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Extruded fluorinated ethylene propylene (FEP) fluoropolymer insulation with fiberglass braid cover over each insulated conductor. Braid is treated with a moisture and high temperature resistant finish for K-2 color coding. (Unless specified)

Overall Binder Tapes

Nomex®

Outer Covering

Braided aramid K-fiber with a moisture, heat and flame resistant finish.

Standard Color

Black (Colors available)

CHARACTERISTICS

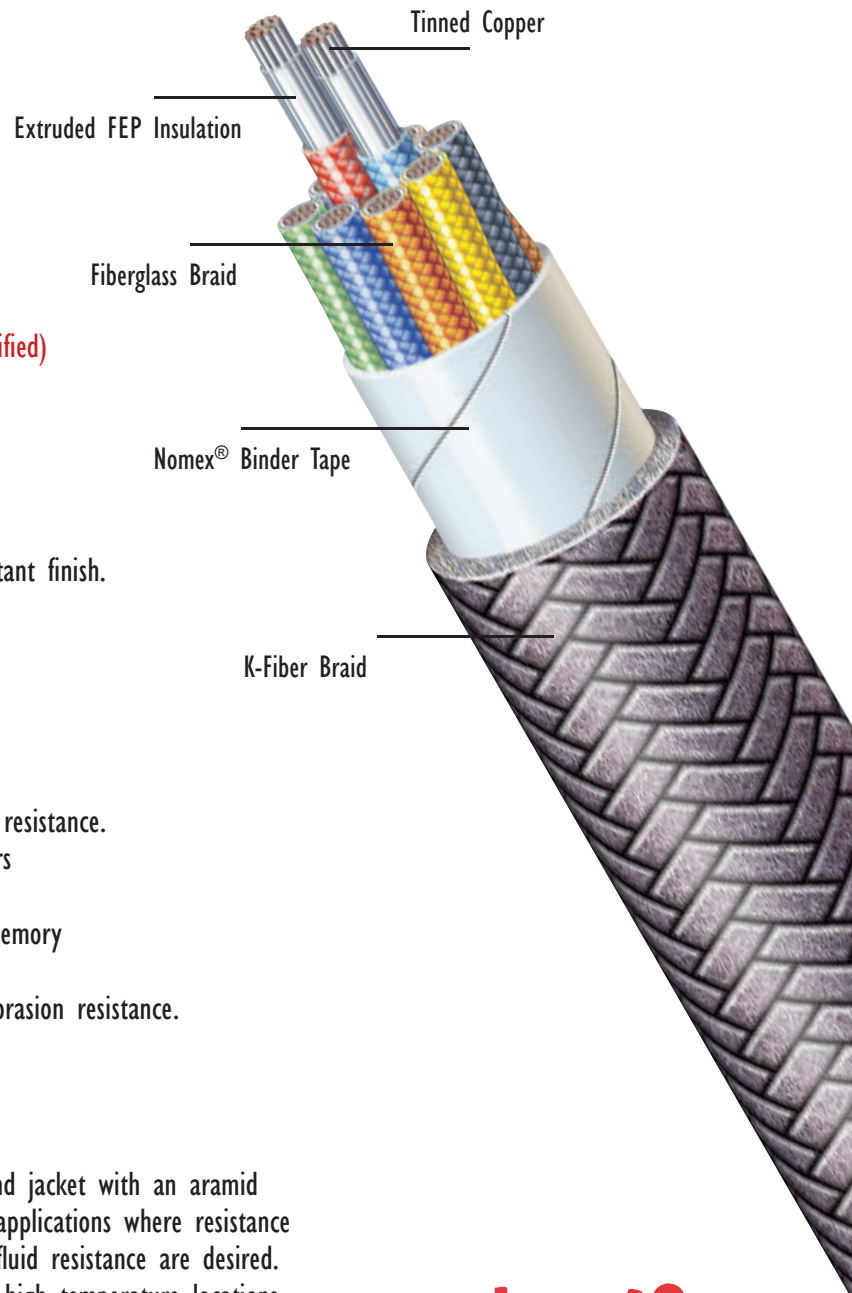
- FEP leads have outstanding chemical, fluid, age and ozone resistance.
- Fillers, where needed, are made with flame-impervious fibers with moisture-repellent finish.
- Cable utilizes Radix “Torque Free” design. This eliminates memory found in traditional right-hand or left-hand twisted cables.
- Aramid K-fiber jacket provides superior cut through and abrasion resistance.
- Small diameter.

APPLICATION

Multiple conductor cables insulated with FEP fluoropolymer and jacket with an aramid K-fiber braid are widely used in industrial high temperature applications where resistance to abrasion and mechanical abuse coupled with moisture or fluid resistance are desired. This wire is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and in chemical processing plants.

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Revised 8/13



Radix™

Radix Wire

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www.radix-wire.com

SPECIFICATIONS

FLUIDGARD 200 HIGH-TEMPERATURE CABLE

FLUIDGARD 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
FUI8AT02G	18	7	2	0.234	5.94	30.82	45.87
FUI8AT03G	18	7	3	0.246	6.25	41.60	61.91
FUI8AT04G	18	7	4	0.271	6.88	50.90	75.75
FUI8AT05G	18	7	5	0.302	7.67	65.37	97.29
FUI8AT06G	18	7	6	0.328	8.33	76.71	114.16
FUI6AT02G	16	7	2	0.257	6.53	39.53	58.83
FUI6AT03G	16	7	3	0.272	6.91	54.21	80.68
FUI6AT04G	16	7	4	0.301	7.65	67.75	100.83
FUI6AT05G	16	7	5	0.330	8.38	85.35	127.02
FUI6AT06G	16	7	6	0.360	9.14	100.61	149.73
FUI4AT02G	14	7	2	0.290	7.37	54.66	81.35
FUI4AT03G	14	7	3	0.307	7.80	74.45	110.80
FUI4AT04G	14	7	4	0.336	8.53	93.46	139.09
FUI4AT05G	14	7	5	0.370	9.40	117.36	174.66
FUI4AT06G	14	7	6	0.405	10.29	138.93	206.76
FUI2CT02G	12	19	2	0.324	8.23	75.51	112.38
FUI2CT03G	12	19	3	0.344	8.74	103.51	154.05
FUI2CT04G	12	19	4	0.377	9.58	131.96	196.39
FUI2CT05G	12	19	5	0.417	10.59	165.34	246.07
FUI2CT06G	12	19	6	0.476	12.09	202.68	301.64
FUI0CT02G	10	19	2	0.378	9.60	108.09	160.86
FUI0CT03G	10	19	3	0.401	10.19	152.81	227.42
FUI0CT04G	10	19	4	0.458	11.63	200.92	299.02
FUI0CT05G	10	19	5	0.513	13.03	253.16	376.76
FUI0CT06G	10	19	6	0.573	14.55	305.22	454.24

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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200C/600V

SAB-K HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

Passes IEEE-383 Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Composite extruded silicone rubber with intermediate fiberglass reinforcement (Sil-A-Blend®)

K-2 color code. (Unless specified)

Overall Binder Tapes

Polyester

Outer Covering

Braided aramid K-fiber with a moisture, heat and flame resistant finish.

Standard Color

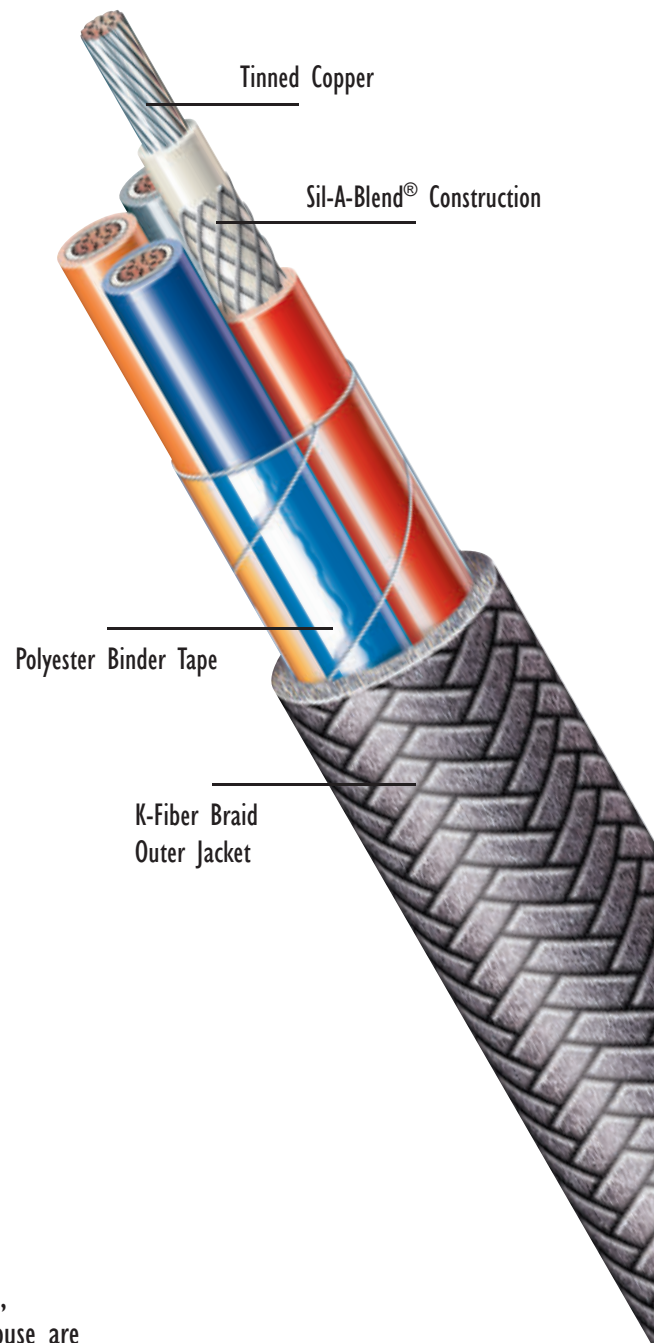
Black (Colors available)

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- 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 tape is non-hydroscopic, non-wicking polyester.
- Suitable for applications to -60°C.
- Aramid K-fiber provides superior cut through and abrasion resistance.
- Not recommended for outdoor use.

APPLICATION

SAB-K is constructed for use in high temperature applications as a more flexible, multiple conductor control cable where resistance to abrasion and mechanical abuse are desired. This cable is used in steel and glass plants, as well as high temperature locations near boilers, steam lines and chemical processing plants. Use above grade in raceway, tray, or conduit.



Radix™

Revised 8/13

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SAB-K 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
NS18AT02G	18	7	2	0.294	7.47	36.47	54.28
NS18AT03G	18	7	3	0.312	7.92	46.99	69.93
NS18AT04G	18	7	4	0.341	8.66	56.75	84.46
NS18AT05G	18	7	5	0.375	9.53	71.41	106.27
NS18AT06G	18	7	6	0.411	10.44	83.74	124.62
NS16AT02G	16	7	2	0.316	8.03	45.00	66.97
NS16AT03G	16	7	3	0.335	8.51	59.48	88.52
NS16AT04G	16	7	4	0.367	9.32	73.23	108.98
NS16AT05G	16	7	5	0.406	10.31	91.91	136.78
NS16AT06G	16	7	6	0.461	11.71	113.42	168.80
NS14AT02G	14	7	2	0.343	8.71	58.86	87.60
NS14AT03G	14	7	3	0.364	9.25	78.13	116.28
NS14AT04G	14	7	4	0.399	10.13	97.91	145.71
NS14AT05G	14	7	5	0.458	11.63	127.81	190.21
NS14AT06G	14	7	6	0.508	12.90	153.35	228.22
NS12CT02G	12	19	2	0.377	9.58	78.40	116.68
NS12CT03G	12	19	3	0.401	10.19	108.12	160.91
NS12CT04G	12	19	4	0.457	11.61	141.25	210.21
NS12CT05G	12	19	5	0.512	13.00	178.50	265.65
NS12CT06G	12	19	6	0.572	14.53	215.56	320.80
NS10CT02G	10	19	2	0.506	12.85	131.23	195.30
NS10CT03G	10	19	3	0.547	13.89	185.44	275.98
NS10CT04G	10	19	4	0.604	15.34	235.37	350.29
NS10CT05G	10	19	5	0.651	16.54	285.20	424.45
NS10CT06G	10	19	6	0.719	18.26	340.03	506.05

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

Passes IEEE-383 Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Composite extruded silicone rubber with intermediate fiberglass reinforcement (Sil-A-Blend®)

K-2 color code. (Unless specified)

Overall Binder Tapes

Polyester

Outer Covering

Extruded silicone rubber.

(Optional) wire braid armor of stainless steel or other suitable material.

Standard Color

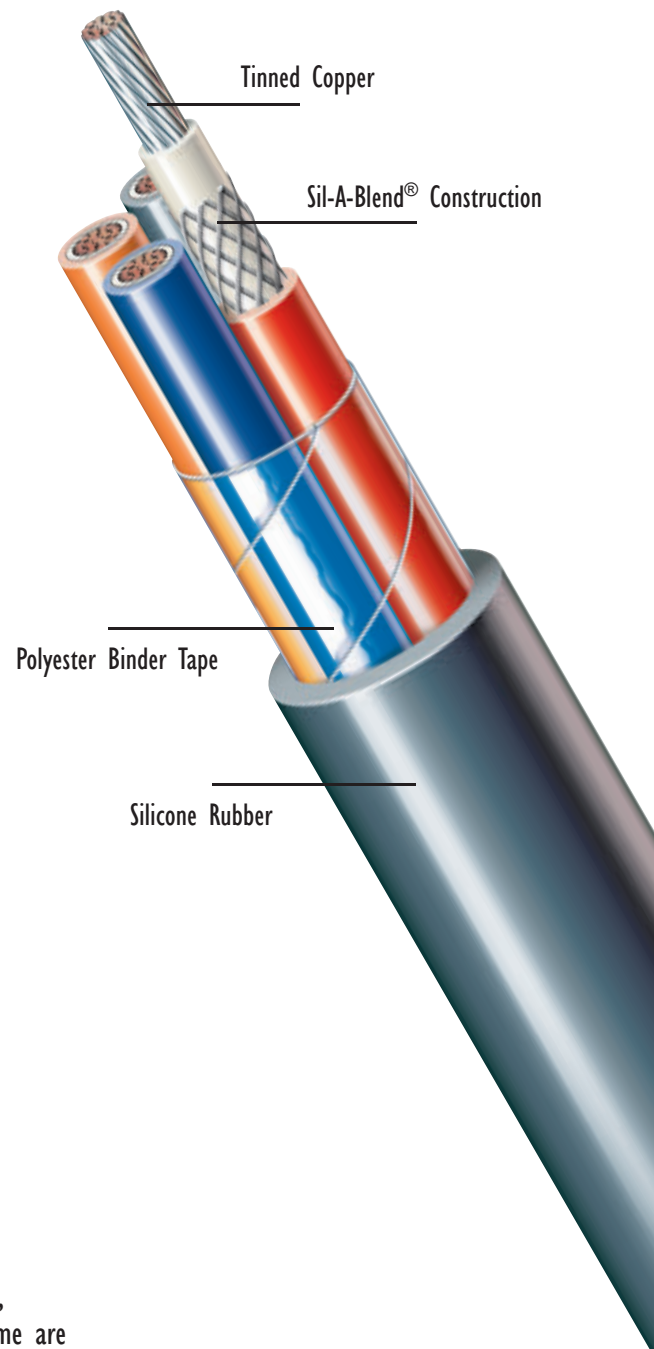
Black (Colors available)

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- 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 tape is non-hydroscopic, non-wicking polyester.
- Suitable for applications to -60°C.
- Not recommended for outdoor use.

APPLICATION

SAB-S is constructed for use in high temperature applications as a more flexible, multiple conductor control cable where flexibility and resistance to heat and flame are desired. This wire is used in robotic applications, as well as high temperature locations such as steel and glass plants and in power generating stations.



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SAB-S 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
NT18AT02A	18	7	2	0.334	8.48	50.18	74.68
NT18AT03A	18	7	3	0.352	8.94	61.64	91.73
NT18AT04A	18	7	4	0.382	9.70	72.94	108.55
NT18AT05A	18	7	5	0.417	10.59	89.44	133.11
NT18AT06A	18	7	6	0.453	11.51	103.59	154.17
NT16AT02A	16	7	2	0.357	9.07	59.91	89.16
NT16AT03A	16	7	3	0.377	9.58	75.40	112.21
NT16AT04A	16	7	4	0.409	10.39	90.84	135.19
NT16AT05A	16	7	5	0.448	11.38	111.51	165.95
NT16AT06A	16	7	6	0.487	12.37	129.85	193.25
NT14AT02A	14	7	2	0.384	9.75	75.18	111.89
NT14AT03A	14	7	3	0.406	10.31	95.56	142.22
NT14AT04A	14	7	4	0.442	11.23	117.18	174.39
NT14AT05A	14	7	5	0.485	12.32	144.09	214.44
NT14AT06A	14	7	6	0.560	14.22	184.07	273.94
NT12CT02A	12	19	2	0.419	10.64	96.51	143.63
NT12CT03A	12	19	3	0.443	11.25	127.47	189.71
NT12CT04A	12	19	4	0.483	12.27	157.46	234.34
NT12CT05A	12	19	5	0.564	14.33	209.51	311.80
NT12CT06A	12	19	6	0.612	15.54	245.08	364.74
NT10CT02A	10	19	2	0.559	14.20	162.61	242.00
NT10CT03A	10	19	3	0.591	15.01	215.32	320.45
NT10CT04A	10	19	4	0.645	16.38	266.96	397.30
NT10CT05A	10	19	5	0.710	18.03	328.03	488.19
NT10CT06A	10	19	6	0.774	19.66	385.58	573.83

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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200C/600V

SKS SOAKING PIT HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

Passes IEEE-383 Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed, tinned copper

Insulating System

Extruded silicone rubber with fiberglass braid cover over each insulated conductor. K-2 color code. (Unless specified)

Barrier Tape

Flame Retardant Thermal barrier Tape.

Inner Covering

Inner braid Jacket of aramid K-fibers with moisture, flame and heat resistant finish.

Outer Covering

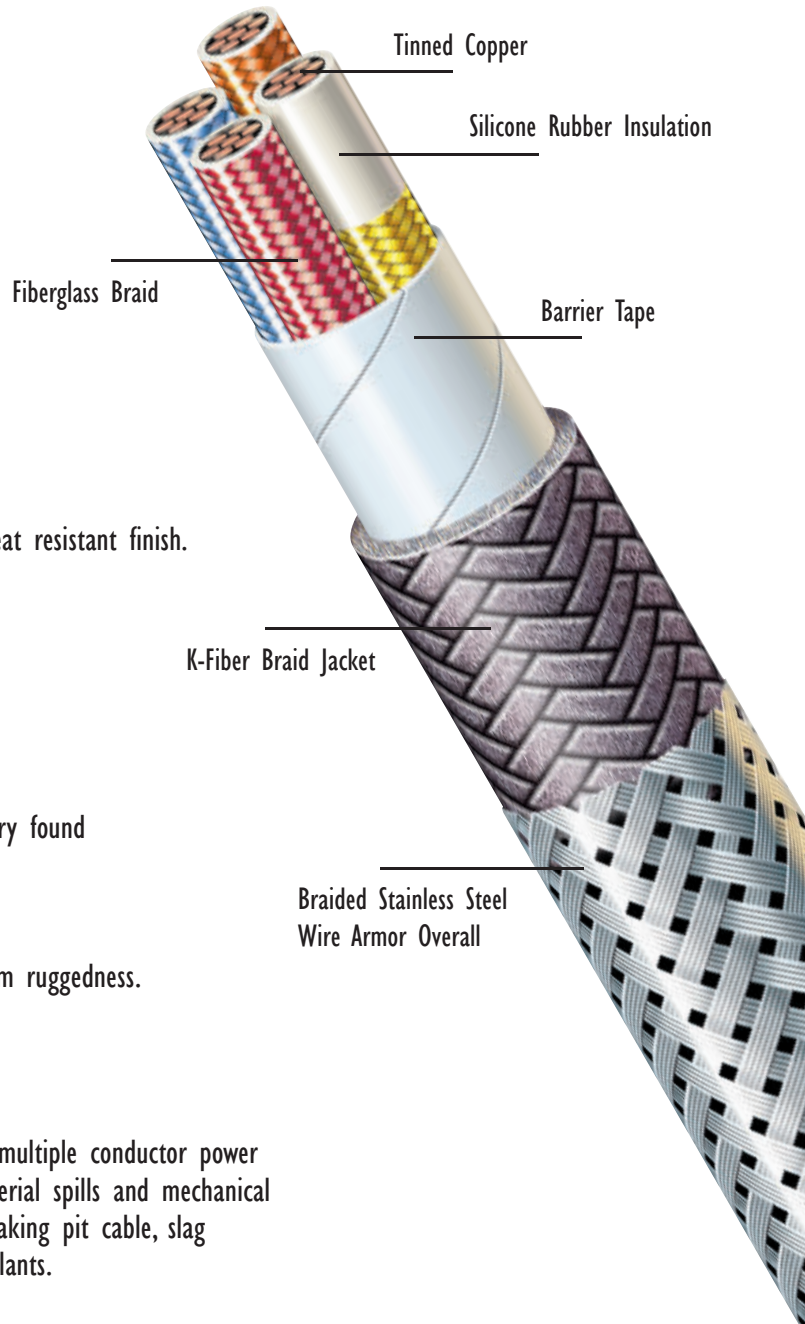
Braided stainless steel wire armor overall.

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Cable utilizes Radix “Torque Free” design. This eliminates memory found in traditional right-hand or left-hand twisted cables.
- Suitable for applications to -60°C.
- Binder tape provides moisture resistance.
- Aramid K-fiber braid and stainless steel jacket provide maximum ruggedness.
- Not recommended for outdoor use.

APPLICATION

SKS is constructed for use in high temperature applications as a multiple conductor power and control cable where resistance to abrasion, moisture, hot material spills and mechanical abuse are desired. This cable is widely used in steel plants, as soaking pit cable, slag and teeming ladle car cable, overhead crane cable and in glass plants.



Radix™

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SPECIFICATIONS

SKS SOAKING PIT HIGH-TEMPERATURE CABLE

SKS SOAKING PIT 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
KS18GT02S	18	16	2	0.359	9.12	83.88	124.83
KS18GT03S	18	16	3	0.376	9.55	101.14	150.52
KS18GT04S	18	16	4	0.406	10.31	115.90	172.49
KS18GT05S	18	16	5	0.442	11.23	136.31	202.86
KS18GT06S	18	16	6	0.494	12.55	161.20	239.90
KS16GT02S	16	26	2	0.380	9.65	98.36	146.38
KS16GT03S	16	26	3	0.399	10.13	116.87	173.93
KS16GT04S	16	26	4	0.431	10.95	136.19	202.68
KS16GT05S	16	26	5	0.482	12.24	166.03	247.09
KS16GT06S	16	26	6	0.532	13.51	193.82	288.45
KS14GT02S	14	41	2	0.479	12.17	136.78	203.56
KS14GT03S	14	41	3	0.513	13.03	172.85	257.24
KS14GT04S	14	41	4	0.575	14.61	229.81	342.01
KS14GT05S	14	41	5	0.639	16.23	269.75	401.45
KS14GT06S	14	41	6	0.691	17.55	306.67	456.40
KS12GT02S	12	65	2	0.522	13.26	166.21	247.36
KS12GT03S	12	65	3	0.568	14.43	236.51	351.98
KS12GT04S	12	65	4	0.628	15.95	278.94	415.13
KS12GT05S	12	65	5	0.685	17.40	327.05	486.73
KS12GT06S	12	65	6	0.725	18.42	369.45	549.83
KS12GT12S	12	65	12	0.947	24.05	637.65	948.97
KS12GT20S	12	65	20	1.173	29.79	982.46	1,462.13
KS10GT02S	10	105	2	0.584	14.83	232.38	345.84
KS10GT03S	10	105	3	0.629	15.98	292.51	435.32
KS10GT04S	10	105	4	0.682	17.32	347.50	517.16
KS10GT05S	10	105	5	0.729	18.52	410.75	611.29
KS10GT06S	10	105	6	0.797	20.24	478.07	711.48
KS08ET03S	8	133	3	0.824	20.93	451.48	671.91
KS08ET04S	8	133	4	0.901	22.89	562.25	836.76
KS06ET03S	6	133	3	0.923	23.44	597.72	889.55
KS06ET04S	6	133	4	1.012	25.70	749.15	1,114.91
KS04ET04S	4	133	4	1.141	28.98	1015	1,510.32

Standard conductor: Tinned Copper

Optional Lead Construction: Composite extruded silicone rubber with intermediate fiberglass reinforcement (Sil-A-Blend®)

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

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

Passes ICEA T-27-581 Water Absorption Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Extruded silicone rubber with fiberglass braid cover over each insulated conductor. Braid treated with a moisture, heat and flame resistant finish for K-2 color coding (**Unless specified**) and abrasion resistance.

Overall Binder Tapes

Polyester

Outer Covering

Braided aramid K-fiber with a moisture, heat and flame resistant finish.

Standard Color

Black (Colors available)

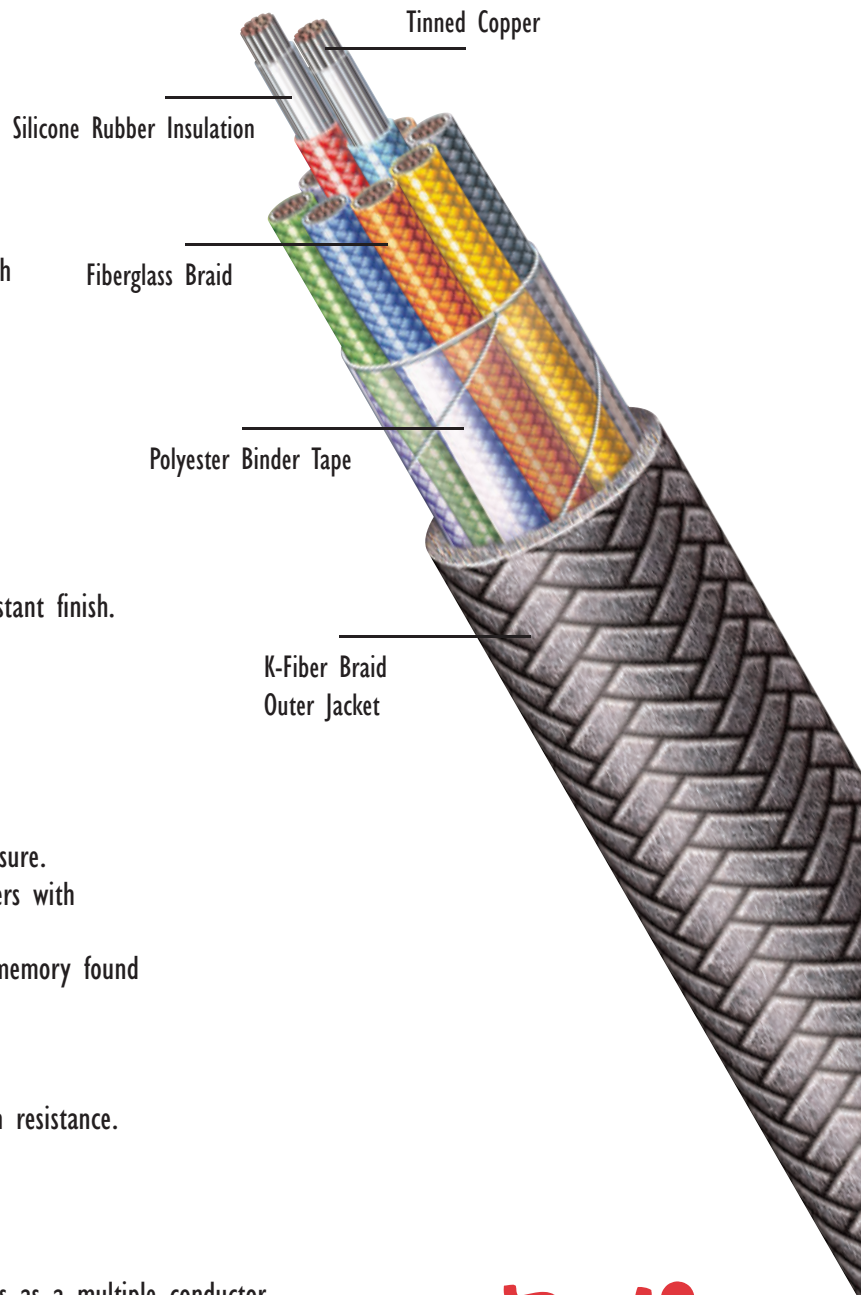
CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- 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 tape is non-hydroscopic, non-wicking polyester.
- Suitable for applications to -60°C.
- Aramid K-fiber provides superior cut through and abrasion resistance.
- Not recommended for outdoor use.

APPLICATION

SRG-K is constructed for use in high temperature applications as a multiple conductor control cable where resistance to abrasion and mechanical abuse are desired. This cable is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and chemical processing plants.

Revised 8/13



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SRG-K 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
KD18AT02G	18	7	2	0.301	7.65	36.40	54.17
KD18AT03G	18	7	3	0.318	8.08	49.72	74.00
KD18AT04G	18	7	4	0.348	8.84	63.46	94.44
KD18AT05G	18	7	5	0.384	9.75	79.77	118.72
KD18AT06G	18	7	6	0.420	10.67	93.75	139.52
KD16AT02G	16	7	2	0.325	8.26	45.69	68.00
KD16AT03G	16	7	3	0.345	8.76	63.32	94.24
KD16AT04G	16	7	4	0.378	9.60	81.41	121.16
KD16AT05G	16	7	5	0.417	10.59	102.10	151.95
KD16AT06G	16	7	6	0.476	12.09	126.75	188.63
KD14AT02G	14	7	2	0.413	10.49	70.78	105.34
KD14AT03G	14	7	3	0.454	11.53	104.31	155.24
KD14AT04G	14	7	4	0.506	12.85	136.82	203.62
KD14AT05G	14	7	5	0.572	14.53	175.06	260.53
KD14AT06G	14	7	6	0.625	15.88	205.80	306.28
KD14AT12G	14	7	12	0.814	20.68	376.63	560.51
KD12CT02G	12	19	2	0.466	11.84	97.73	145.45
KD12CT03G	12	19	3	0.499	12.67	138.61	206.28
KD12CT04G	12	19	4	0.557	14.15	182.47	271.56
KD12CT05G	12	19	5	0.619	15.72	228.69	340.34
KD12CT06G	12	19	6	0.661	16.79	261.07	388.53
KD12CT12G	12	19	12	0.886	22.50	499.27	743.03
KD10CT02G	10	19	2	0.518	13.16	132.78	197.61
KD10CT03G	10	19	3	0.558	14.17	190.70	283.81
KD10CT04G	10	19	4	0.616	15.65	248.59	369.96
KD10CT05G	10	19	5	0.665	16.89	301.29	448.39
KD10CT06G	10	19	6	0.734	18.64	359.41	534.89

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

Passes IEEE-383 Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Annealed tinned copper

Insulating System

Extruded silicone rubber with fiberglass braid cover over each insulated conductor. Braid treated with a moisture, heat and flame resistant finish for K-2 color coding (**Unless specified**) and abrasion resistance.

Overall Binder Tapes

Polyester

Outer Covering

Extruded silicone rubber.

(Optional) wire braid armor of stainless steel or other suitable material.

Standard Color

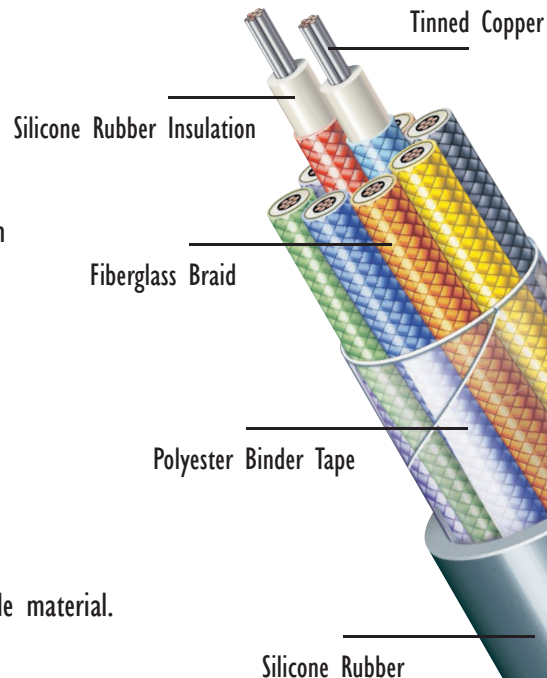
Black (Colors available)

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- 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 tape is non-hydroscopic, non-wicking polyester.
- Suitable for applications to -60°C.
- Not recommended for outdoor use.

APPLICATION

SRG-S is constructed for use in high temperature applications as a multiple conductor control cable where flexibility and resistance to heat and flame are desired. This wire is used in robotic applications, as well as high temperature locations such as steel and glass plants and in power generating stations.



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SRG-S 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
KJI8AT02A	18	7	2	0.341	8.66	56.96	84.77
KJI8AT03A	18	7	3	0.359	9.12	70.26	104.56
KJI8AT04A	18	7	4	0.389	9.88	83.55	124.34
KJI8AT05A	18	7	5	0.426	10.82	102.12	151.98
KJI8AT06A	18	7	6	0.463	11.76	118.34	176.12
KJI6AT02A	16	7	2	0.366	9.30	69.01	102.70
KJI6AT03A	16	7	3	0.386	9.80	85.54	127.30
KJI6AT04A	16	7	4	0.420	10.67	103.37	153.84
KJI6AT05A	16	7	5	0.460	11.68	126.53	188.31
KJI6AT06A	16	7	6	0.500	12.70	147.34	219.28
KJI4AT02A	14	7	2	0.455	11.56	97.27	144.76
KJI4AT03A	14	7	3	0.482	12.24	128.98	191.95
KJI4AT04A	14	7	4	0.559	14.20	175.01	260.46
KJI4AT05A	14	7	5	0.613	15.57	212.18	315.77
KJI4AT06A	14	7	6	0.667	16.94	247.01	367.61
KJI2CT02A	12	19	2	0.491	12.47	124.17	184.79
KJI2CT03A	12	19	3	0.552	14.02	180.85	269.15
KJI2CT04A	12	19	4	0.601	15.27	220.41	328.02
KJI2CT05A	12	19	5	0.661	16.79	269.43	400.98
KJI2CT06A	12	19	6	0.720	18.29	313.76	466.95
KJI0CT02A	10	19	2	0.570	14.48	177.05	263.49
KJI0CT03A	10	19	3	0.603	15.32	233.44	347.41
KJI0CT04A	10	19	4	0.658	16.71	289.13	430.29
KJI0CT05A	10	19	5	0.724	18.39	354.43	527.48
KJI0CT06A	10	19	6	0.790	20.07	416.21	619.42

Standard conductor: Tinned Copper

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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RATINGS / APPROVALS

200°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test
Passes IEEE-383 Vertical Cable Tray Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG
Annealed tinned copper conductors

Insulating System

Extruded silicone rubber with fiberglass braid cover over each insulated conductor. K-2 color code.

(Unless specified)

Binder Tapes

PTFE Fluoropolymer tape.

Inner Reinforcement

Inner reinforcement of stainless steel braid.

Overall Tapes

Flame and molten-splash resistant tape.

Outer Covering

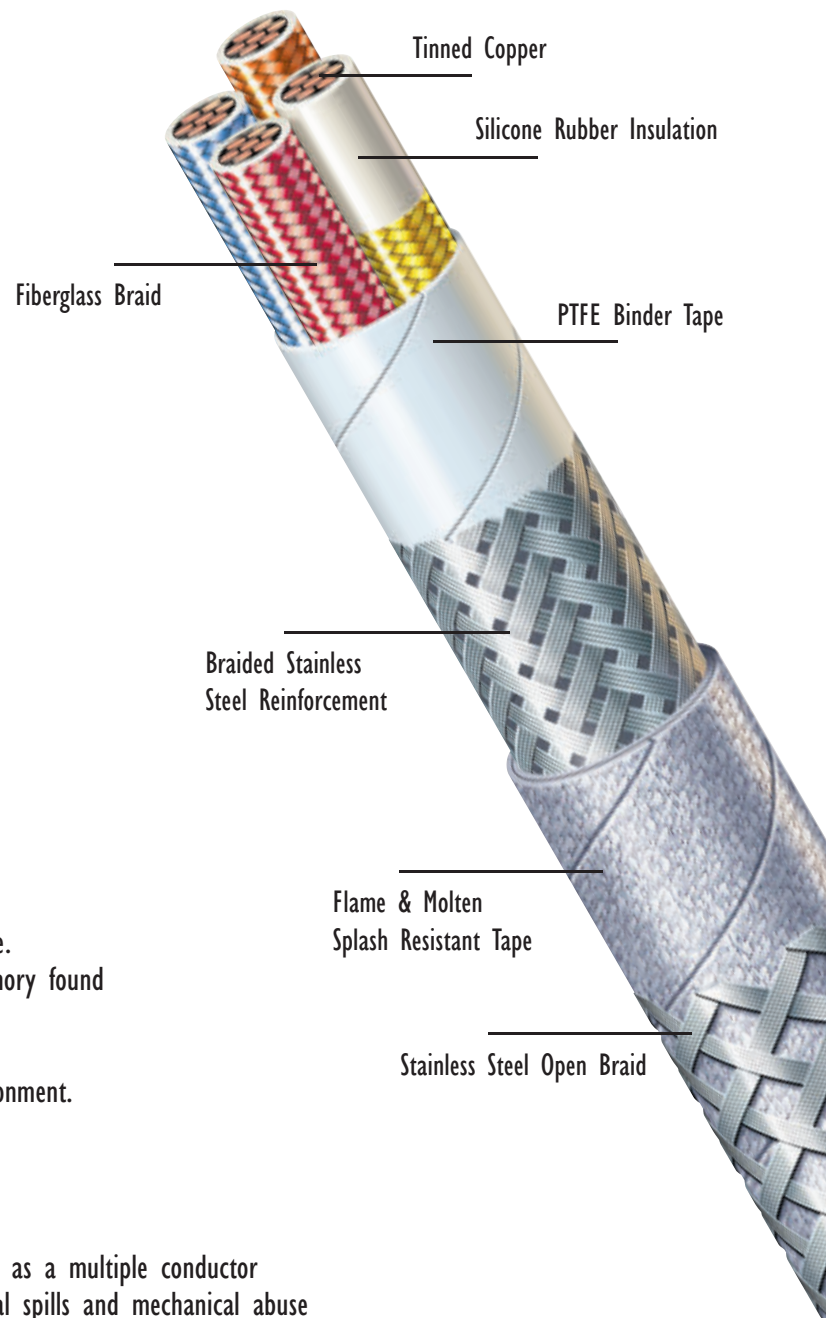
Outer stainless steel open braid reinforcement.

CHARACTERISTICS

- Silicone formulations suitable for UV, ozone, moisture exposure.
- Cable utilizes Radix “Torque Free” design. This eliminates memory found in traditional right-hand or left-hand twisted cables.
- Suitable for applications to -60°C.
- Molten-splash tape provides extended flex life in splash environment.
- Not recommended for outdoor use.

APPLICATION

TLC 200 is constructed for use in high temperature applications as a multiple conductor control cable where resistance to abrasion, moisture, hot material spills and mechanical abuse are desired. This wire is used in steel plants, as teeming ladle transfer car cable. Flame and molten flash resistant tape extends cable life.



Radix™

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TLC 200 200C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
KRI4GT03S	14	41	3	0.554	14.07	193.54	288.03
KRI4GT04S	14	41	4	0.598	15.19	226.18	336.61
KRI4GT05S	14	41	5	0.666	16.92	292.85	435.83
KRI4GT06S	14	41	6	0.719	18.26	326.88	486.47
KRI2GT02S	12	65	2	0.562	14.27	186.44	277.47
KRI2GT03S	12	65	3	0.591	15.01	232.07	345.38
KRI2GT04S	12	65	4	0.640	16.26	274.50	408.52
KRI2GT05S	12	65	5	0.712	18.08	349.96	520.82
KRI2GT06S	12	65	6	0.771	19.58	411.84	612.92
KRI0GT02S	10	105	2	0.608	15.44	229.85	342.07
KRI0GT03S	10	105	3	0.641	16.28	288.16	428.85
KRI0GT04S	10	105	4	0.709	18.01	370.35	551.17
KRI0GT05S	10	105	5	0.774	19.66	453.28	674.59
KRI0GT06S	10	105	6	0.839	21.31	523.36	778.88
KR08ET02S	8	133	2	0.820	20.83	396.56	590.18
KR08ET03S	8	133	3	0.867	22.02	497.84	740.90
KR08ET04S	8	133	4	0.946	24.03	610.28	908.24
KR08ET05S	8	133	5	1.041	26.44	740.69	1,102.32
KR08ET06S	8	133	6	1.136	28.85	865.83	1,288.56
KR06ET02S	6	133	2	0.914	23.22	493.70	734.74
KR06ET03S	6	133	3	0.968	24.59	655.55	975.61
KR06ET04S	6	133	4	1.059	26.90	806.21	1,199.83
KR06ET05S	6	133	5	1.168	29.67	980.65	1,459.44
KR06ET06S	6	133	6	1.277	32.44	1,136.60	1,691.53
KR04ET02S	4	133	2	1.023	25.98	657.03	977.82
KR04ET03S	4	133	3	1.085	27.56	863.09	1,284.48
KR04ET04S	4	133	4	1.190	30.23	1,087.72	1,618.78
KR04ET05S	4	133	5	1.315	33.40	1,315.46	1,957.72
KR04ET06S	4	133	6	1.440	36.58	1,552.63	2,310.68

Standard conductor: Tinned Copper

Optional Lead Construction: Composite extruded silicone rubber with intermediate fiberglass reinforcement (Sil-A-Blend®)

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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Tel: 216 731-9191 • Fax: 216 731-7082
www.radix-wire.com

RATINGS / APPROVALS

250°C – 600 Volts

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Nickel plated copper-2%

Insulating System

Extruded Perfluoroalkoxy (PFA) fluoropolymer insulation with fiberglass braid cover over each insulated conductor. Braid is treated with a moisture and high temperature resistant finish for K-4 color coding. (Unless specified)

Overall Binder Tapes

PTFE Fluoropolymer tape.

Outer Covering

Braided aramid K-fiber with a moisture, heat and flame resistant finish.

Standard Color

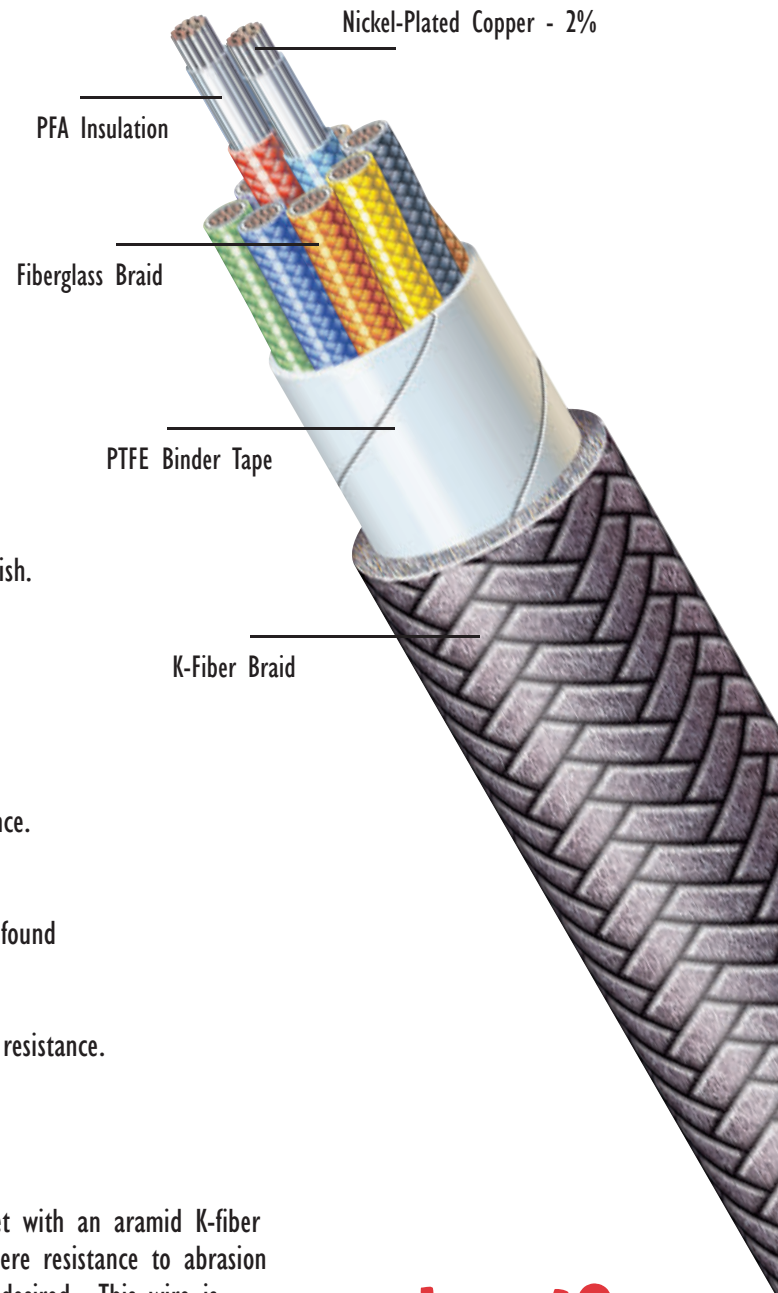
Black (Colors available)

CHARACTERISTICS

- PFA leads have outstanding chemical, fluid, age and ozone resistance.
- 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 tape provides additional moisture resistance.
- Aramid K-fiber jacket provides superior cut through and abrasion resistance.
- Not recommended for outdoor use.

APPLICATION

Multiple conductor cables insulated with PFA fluoropolymer and jacket with an aramid K-fiber braid are widely used in industrial high temperature applications where resistance to abrasion and mechanical abuse coupled with moisture or fluid resistance are desired. This wire is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and in chemical processing plants.



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SPECIFICATIONS

FLUIDGARD 250 HIGH-TEMPERATURE CABLE

FLUIDGARD 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
GFI8GP02G	18	16	2	0.243	6.17	33.48	49.83
GFI8GP03G	18	16	3	0.259	6.58	44.86	66.76
GFI8GP04G	18	16	4	0.285	7.24	54.59	81.24
GFI8GP05G	18	16	5	0.311	7.90	68.47	101.90
GFI8GP06G	18	16	6	0.338	8.59	80.02	119.09
GFI6GP02G	16	26	2	0.271	6.88	45.09	67.10
GFI6GP03G	16	26	3	0.290	7.37	60.10	89.44
GFI6GP04G	16	26	4	0.315	8.00	73.63	109.58
GFI6GP05G	16	26	5	0.346	8.79	92.10	137.07
GFI6GP06G	16	26	6	0.377	9.58	108.26	161.12
GFI4GP02G	14	41	2	0.303	7.70	59.29	88.24
GFI4GP03G	14	41	3	0.320	8.13	79.62	118.49
GFI4GP04G	14	41	4	0.349	8.86	99.35	147.86
GFI4GP05G	14	41	5	0.384	9.75	124.08	184.66
GFI4GP06G	14	41	6	0.419	10.64	146.47	217.98
GFI2GP02G	12	65	2	0.340	8.64	82.12	122.21
GFI2GP03G	12	65	3	0.360	9.14	111.35	165.72
GFI2GP04G	12	65	4	0.394	10.01	141.26	210.23
GFI2GP05G	12	65	5	0.450	11.43	180.88	269.19
GFI2GP06G	12	65	6	0.499	12.67	216.42	322.08
GFI0GP02G	10	105	2	0.415	10.54	116.45	173.31
GFI0GP03G	10	105	3	0.458	11.63	171.16	254.73
GFI0GP04G	10	105	4	0.509	12.93	220.03	327.46
GFI0GP05G	10	105	5	0.573	14.55	277.38	412.81
GFI0GP06G	10	105	6	0.624	15.85	327.93	488.04

Standard conductor: Nickel Plated Copper-2%

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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Radix Wire
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www.radix-wire.com

250C/600V

PFA/PFA
HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

250°C — 600 Volts

Passes the IEEE-383 Vertical Cable Tray Flame Test

Passes UL VW-1 Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG — 2 AWG

Nickel Plated Copper 2%

Insulating System

Colored extruded perfluoroalkoxy (PFA) fluoropolymer insulation.

K-2 color code. (Unless specified)

Overall Binder Tapes

Nomex®

Outer Covering

Extruded perfluoroalkoxy (PFA) fluoropolymer outer jacket.

Standard Color

Black (Colors available)

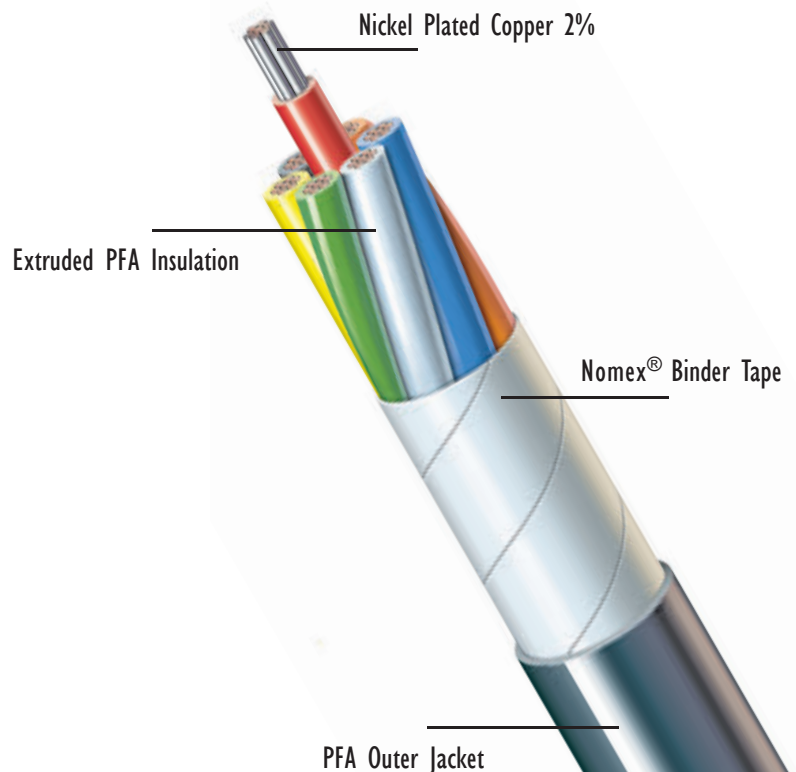
CHARACTERISTICS

- PFA leads have outstanding chemical, fluid, age, and ozone resistance.
- 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.
- Small diameter.

APPLICATION

Multiple conductor cables insulated and jacket with PFA Teflon® are widely used where small O.D. is required in industrial high temperature applications where resistance to abrasion and mechanical abuse coupled with moisture or fluid resistance are desired. This wire is widely used in steel and glass plants, as well as high temperature locations near boilers, steam lines and in chemical processing plants. Use above or below grade in raceway, tray, or conduit.

Nomex® is a registered trademark of DuPont.



Radix™

Revised 9/15

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PFA/PFA 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
GGI8GP02A	18	19	2	0.186	4.72	26.04	38.75
GGI8GP03A	18	19	3	0.198	5.03	34.94	52.00
GGI8GP04A	18	19	4	0.217	5.51	41.80	62.21
GGI8GP05A	18	19	5	0.240	6.10	51.16	76.14
GGI8GP06A	18	19	6	0.264	6.71	60.52	90.07
GGI6GP02A	16	26	2	0.211	5.36	34.55	51.42
GGI6GP03A	16	26	3	0.225	5.72	47.29	70.38
GGI6GP04A	16	26	4	0.247	6.27	58.05	86.39
GGI6GP05A	16	26	5	0.274	6.96	73.67	109.64
GGI6GP06A	16	26	6	0.307	7.80	89.61	133.36
GGI4GP02A	14	41	2	0.242	6.15	48.58	72.30
GGI4GP03A	14	41	3	0.257	6.53	66.08	98.34
GGI4GP04A	14	41	4	0.289	7.34	85.33	126.99
GGI4GP05A	14	41	5	0.321	8.15	107.24	159.60
GGI4GP06A	14	41	6	0.352	8.94	126.80	188.71
GGI2GP02A	12	65	2	0.282	7.16	70.15	104.40
GGI2GP03A	12	65	3	0.301	7.65	96.78	144.03
GGI2GP04A	12	65	4	0.331	8.41	122.83	182.80
GGI2GP05A	12	65	5	0.368	9.35	153.86	228.98
GGI2GP06A	12	65	6	0.404	10.26	182.55	271.68
GGI0GP02A	10	105	2	0.337	8.56	103.74	154.39
GGI0GP03A	10	105	3	0.360	9.14	145.45	216.46
GGI0GP04A	10	105	4	0.397	10.08	185.54	276.13
GGI0GP05A	10	105	5	0.442	11.23	231.84	345.03
GGI0GP06A	10	105	6	0.497	12.62	283.01	421.19

Standard conductor: Nickel Plated Copper 2%
Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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250C/600V

TEMPERFLEX 250 HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

250°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

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

Passes ICEA T-27-581 Water Absorption Test

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel plated copper-2%

Insulating System

Fused PTFE fluoropolymer tape with glass serve and 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

PTFE Fluoropolymer tape.

Outer Covering

Braided aramid K-fiber with high temperature finish.

Standard Color

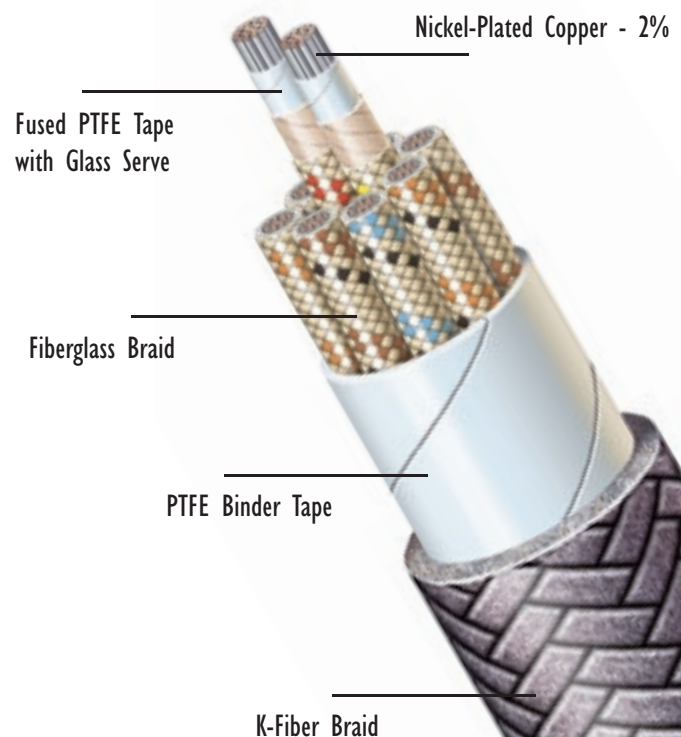
Black (Colors available)

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 tape provides additional moisture resistance.
- Aramid fiber jacket provides superior cut through and abrasion resistance.
- Not recommended for outdoor use.

APPLICATION

For use in areas that are alternately exposed to high temperature then to moisture and cooling or abusive areas where resistance to cut through and abrasion is important. These cables retain their flexibility for long periods, even after exposure to continuous high temperature.



Radix Wire Company

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SPECIFICATIONS

TEMPERFLEX 250 HIGH-TEMPERATURE CABLE

TEMPERFLEX 250 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
AVI8GP02G	18	19	2	0.267	6.78	40.61	60.44
AVI8GP03G	18	19	3	0.285	7.24	53.65	79.84
AVI8GP04G	18	19	4	0.308	7.82	64.19	95.53
AVI8GP05G	18	19	5	0.336	8.53	79.74	118.67
AVI8GP06G	18	19	6	0.365	9.27	92.96	138.35
AVI6GP02G	16	26	2	0.293	7.44	52.51	78.15
AVI6GP03G	16	26	3	0.309	7.85	67.93	101.10
AVI6GP04G	16	26	4	0.335	8.51	82.90	123.37
AVI6GP05G	16	26	5	0.367	9.32	102.92	153.17
AVI6GP06G	16	26	6	0.399	10.13	120.61	179.50
AVI6GPI2G	16	26	12	0.512	13.09	218	324
AVI6GPI9G	16	26	19	0.647	16.43	350	520
AVI4GP02G	14	41	2	0.320	8.13	66.48	98.94
AVI4GP03G	14	41	3	0.338	8.59	88.13	131.16
AVI4GP04G	14	41	4	0.368	9.35	109.42	162.84
AVI4GP05G	14	41	5	0.404	10.26	135.81	202.12
AVI4GP06G	14	41	6	0.457	11.61	165.06	245.65
AVI2GP02G	12	65	2	0.355	9.02	89.63	133.39
AVI2GP03G	12	65	3	0.376	9.55	120.11	178.75
AVI2GP04G	12	65	4	0.411	10.44	151.53	225.51
AVI2GP05G	12	65	5	0.472	11.99	194.42	289.34
AVI2GP06G	12	65	6	0.517	13.13	230.72	343.37
AVI0GP02G	10	105	2	0.402	10.21	122.42	182.19
AVI0GP03G	10	105	3	0.436	11.07	171.96	255.92
AVI0GP04G	10	105	4	0.488	12.40	221.56	329.73
AVI0GP05G	10	105	5	0.547	13.89	278.19	414.01
AVI0GP06G	10	105	6	0.599	15.21	330.20	491.42

Standard conductor: Nickel Plated Copper-2%

Consult factory for alternate conductor and stranding options.

® Registered trademark of Radix.
All dimensions listed above are nominal.

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www.radix-wire.com

250C/600V

TEMPERFLEX 250 HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

250°C – 600 Volts

Passes NEMA WC 3 Flame Propagation Test

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

Passes ICEA T-27-581 Water Absorption Test

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel plated copper-2%

Insulating System

Fused PTFE fluoropolymer tape with glass serve and 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

PTFE Fluoropolymer tape.

Outer Covering

Braided aramid K-fiber with high temperature finish.

Standard Color

Black (Colors available)

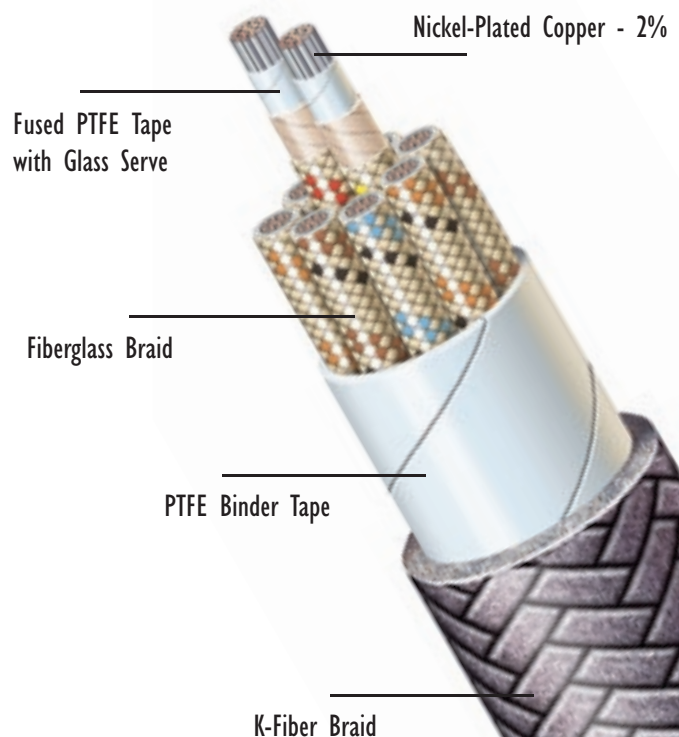
CHARACTERISTICS

- 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 tape provides additional moisture resistance.
- Aramid fiber jacket provides superior cut through and abrasion resistance.
- Not recommended for outdoor use.

APPLICATION

For use in areas that are alternately exposed to high temperature then to moisture and cooling or abusive areas where resistance to cut through and abrasion is important. These cables retain their flexibility for long periods, even after exposure to continuous high temperature.

ISO 9001:2000
CERTIFIED



Radix™

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SPECIFICATIONS

TEMPERFLEX 250 HIGH-TEMPERATURE CABLE

TEMPERFLEX 250 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
AVI8GP02G	18	19	2	0.267	6.78	40.61	60.44
AVI8GP03G	18	19	3	0.285	7.24	53.65	79.84
AVI8GP04G	18	19	4	0.308	7.82	64.19	95.53
AVI8GP05G	18	19	5	0.336	8.53	79.74	118.67
AVI8GP06G	18	19	6	0.365	9.27	92.96	138.35
AVI6GP02G	16	26	2	0.293	7.44	52.51	78.15
AVI6GP03G	16	26	3	0.309	7.85	67.93	101.10
AVI6GP04G	16	26	4	0.335	8.51	82.90	123.37
AVI6GP05G	16	26	5	0.367	9.32	102.92	153.17
AVI6GP06G	16	26	6	0.399	10.13	120.61	179.50
AVI4GP02G	14	41	2	0.320	8.13	66.48	98.94
AVI4GP03G	14	41	3	0.338	8.59	88.13	131.16
AVI4GP04G	14	41	4	0.368	9.35	109.42	162.84
AVI4GP05G	14	41	5	0.404	10.26	135.81	202.12
AVI4GP06G	14	41	6	0.457	11.61	165.06	245.65
AVI2GP02G	12	65	2	0.355	9.02	89.63	133.39
AVI2GP03G	12	65	3	0.376	9.55	120.11	178.75
AVI2GP04G	12	65	4	0.411	10.44	151.53	225.51
AVI2GP05G	12	65	5	0.472	11.99	194.42	289.34
AVI2GP06G	12	65	6	0.517	13.13	230.72	343.37
AVI0GP02G	10	105	2	0.402	10.21	122.42	182.19
AVI0GP03G	10	105	3	0.436	11.07	171.96	255.92
AVI0GP04G	10	105	4	0.488	12.40	221.56	329.73
AVI0GP05G	10	105	5	0.547	13.89	278.19	414.01
AVI0GP06G	10	105	6	0.599	15.21	330.20	491.42

Standard conductor: Nickel Plated Copper-2%

Consult factory for alternate conductor and stranding options.

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All dimensions listed above are nominal.

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www.radix-wire.com

250C/600V

TEMPERGARD FZ-101 HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

250°C – 600 Volts - continuous temperature rating under normal service conditions

400°C – 600 Volts - temporary temperature rating for short periods

Passes IEEE-383 (modified) 210,000 BTU Vertical Cable Tray Fire Propagation Test



CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel coated copper-27%

Insulating System

Reinforced mica and PTFE fluoropolymer insulation tape wraps 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.

Standard Color

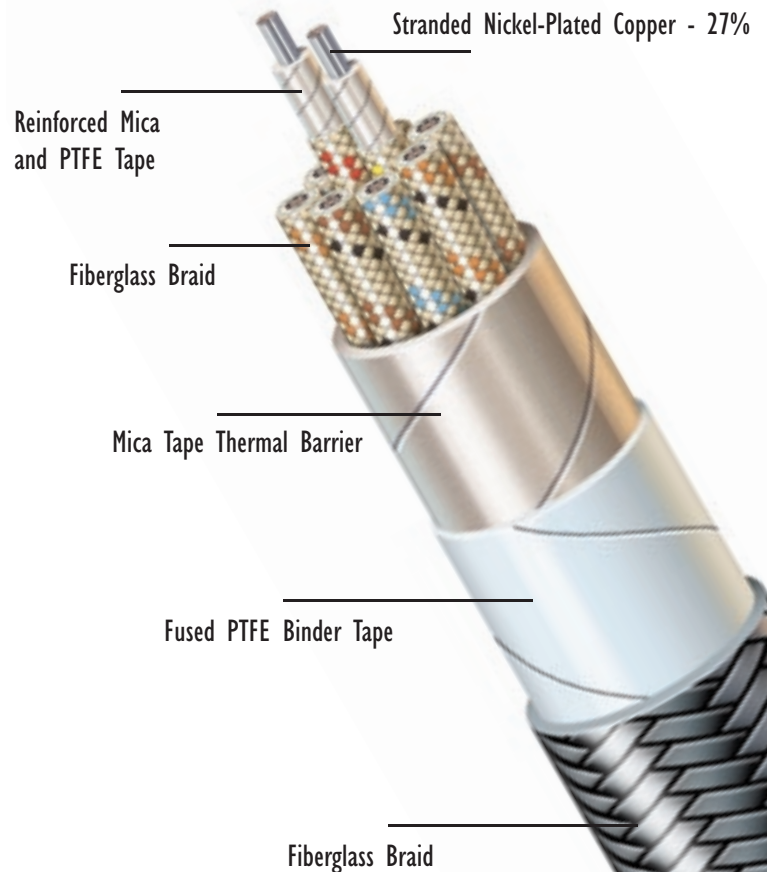
Black (Colors available)

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 is required. Used in iron, steel, paper, and glass plants.



Radix Wire Company

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SPECIFICATIONS

TEMPERGARD FZ-101 HIGH-TEMPERATURE CABLE

TEMPERGARD FZ-101 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
BR18GC02T	18	16	2	0.287	7.29	51.12	76.08
BR18GC03T	18	16	3	0.301	7.65	62.66	93.25
BR18GC04T	18	16	4	0.325	8.26	72.90	108.49
BR18GC05T	18	16	5	0.354	8.99	88.36	131.50
BR18GC06T	18	16	6	0.383	9.73	101.50	151.06
BR16GC02T	16	26	2	0.311	7.90	63.14	93.97
BR16GC03T	16	26	3	0.327	8.31	77.87	115.89
BR16GC04T	16	26	4	0.355	9.02	92.60	137.81
BR16GC05T	16	26	5	0.387	9.83	112.62	167.61
BR16GC06T	16	26	6	0.420	10.67	130.33	193.96
BR14GC02T	14	41	2	0.337	8.56	77.62	115.52
BR14GC03T	14	41	3	0.356	9.04	98.42	146.47
BR14GC04T	14	41	4	0.386	9.80	119.37	177.65
BR14GC05T	14	41	5	0.423	10.74	145.69	216.82
BR14GC06T	14	41	6	0.460	11.68	169.70	252.55
BR12GC02T	12	65	2	0.377	9.58	102.70	152.84
BR12GC03T	12	65	3	0.398	10.11	132.50	197.19
BR12GC04T	12	65	4	0.434	11.02	163.86	243.86
BR12GC05T	12	65	5	0.477	12.12	200.69	298.67
BR12GC06T	12	65	6	0.520	13.21	235.21	350.05
BR10GC02T	10	105	2	0.443	11.25	142.06	211.42
BR10GC03T	10	105	3	0.470	11.94	193.25	287.60
BR10GC04T	10	105	4	0.514	13.06	241.66	359.65
BR10GC05T	10	105	5	0.573	14.55	301.50	448.70
BR10GC06T	10	105	6	0.625	15.88	353.60	526.24

Standard conductor: Nickel Coated Copper-27%

Consult factory for alternate conductor and stranding options.

© Registered trademark of Radix.
All dimensions listed above are nominal.

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Radix Wire Company
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Tel: 216 731-9191 • Fax: 216 731-7082
www.radix-wire.com

250C/600V

TMMG MUDGUN 250 HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

250°C – 600 Volts

RoHS Compliant

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel plated copper-2%

Insulating System

Fused PTFE fluoropolymer tape under 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

Fused PTFE fluoropolymer tape wrap under mica tape.

Outer Covering

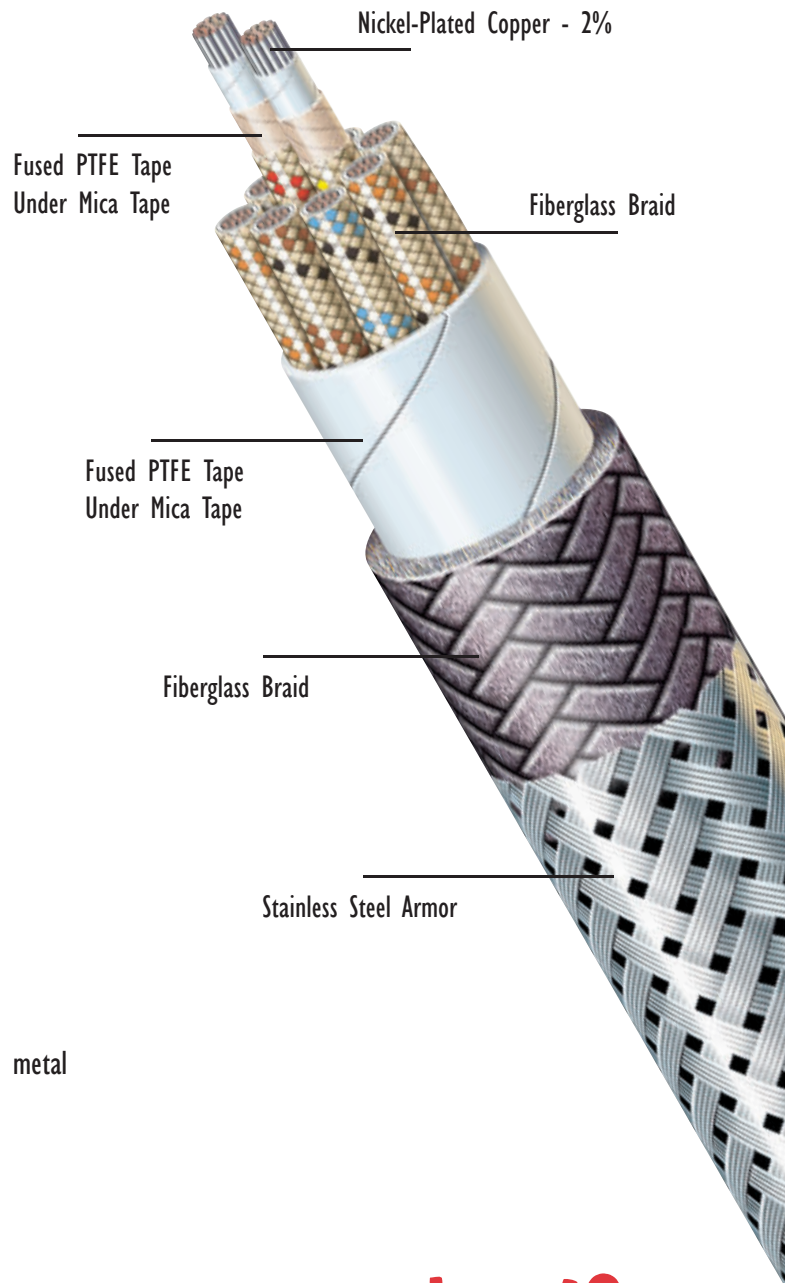
Glass braid jacket impregnated with moisture and heat resistant finish. Stainless steel armor.

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.
- Stainless steel jacket provides mechanical strength for severe duty applications.
- Not recommended for outdoor use.

APPLICATION

For use around blast furnaces, or where subject to sparks, splashing metal and repeated heating and cooling.



Radix™

SPECIFICATIONS

TMMG MUDGUN 250 HIGH-TEMPERATURE CABLE

TMMG MUDGUN 250 250C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
BY18GP02S	18	16	2	0.375	9.53	92.26	137.30
BY18GP03S	18	16	3	0.394	10.01	107.76	160.37
BY18GP04S	18	16	4	0.425	10.80	124.06	184.63
BY18GP05S	18	16	5	0.473	12.01	149.76	222.88
BY18GP06S	18	16	6	0.523	13.28	174.78	260.11
BY16GP02S	16	26	2	0.396	10.06	105.20	156.56
BY16GP03S	16	26	3	0.417	10.59	124.06	184.63
BY16GP04S	16	26	4	0.452	11.48	145.09	215.93
BY16GP05S	16	26	5	0.512	13.00	180.08	268.00
BY16GP06S	16	26	6	0.573	14.55	230.99	343.77
BY14GP02S	14	41	2	0.425	10.80	121.99	181.55
BY14GP03S	14	41	3	0.447	11.35	148.64	221.21
BY14GP04S	14	41	4	0.503	12.78	182.76	271.99
BY14GP05S	14	41	5	0.569	14.45	243.88	362.95
BY14GP06S	14	41	6	0.627	15.93	277.59	413.12
BY12GP02S	12	65	2	0.471	11.96	149.71	222.80
BY12GP03S	12	65	3	0.507	12.88	193.95	288.64
BY12GP04S	12	65	4	0.569	14.45	258.33	384.46
BY12GP05S	12	65	5	0.632	16.05	305.23	454.25
BY12GP06S	12	65	6	0.683	17.35	346.31	515.39
BY10GP02S	10	105	2	0.601	15.27	244.48	363.84
BY10GP03S	10	105	3	0.638	16.21	304.92	453.79
BY10GP04S	10	105	4	0.692	17.58	366.51	545.45
BY10GP05S	10	105	5	0.740	18.80	430.63	640.88
BY10GP06S	10	105	6	0.809	20.55	501.93	746.99

Standard conductor: Nickel Plated Copper-2%

Consult factory for alternate conductor and stranding options.

All dimensions listed above are nominal.

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700C/600V to 1000C/300V

MCS FURNACE CABLE

HIGH-TEMPERATURE LEAD WIRE

RATINGS / APPROVALS

700°C – 600 Volt (Optional SS Braid)

1000°C – 300 Volt

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

Passes UL VW-I Vertical Flame Test

Passes CSA FTI Vertical Flame Test

RoHS Compliant

CONSTRUCTION

Conductors

18 AWG – 8 AWG

Solid or stranded A nickel

Class K (18 AWG – 10 AWG) per ASTM B-174

Class H (8 AWG – 4 AWG) per ASTM B-173

Insulating Construction

High quality reinforced mica tape

Conductor Covering

Ceramic fiber braid coated with a high temperature finish

(Optional) Outer Braid

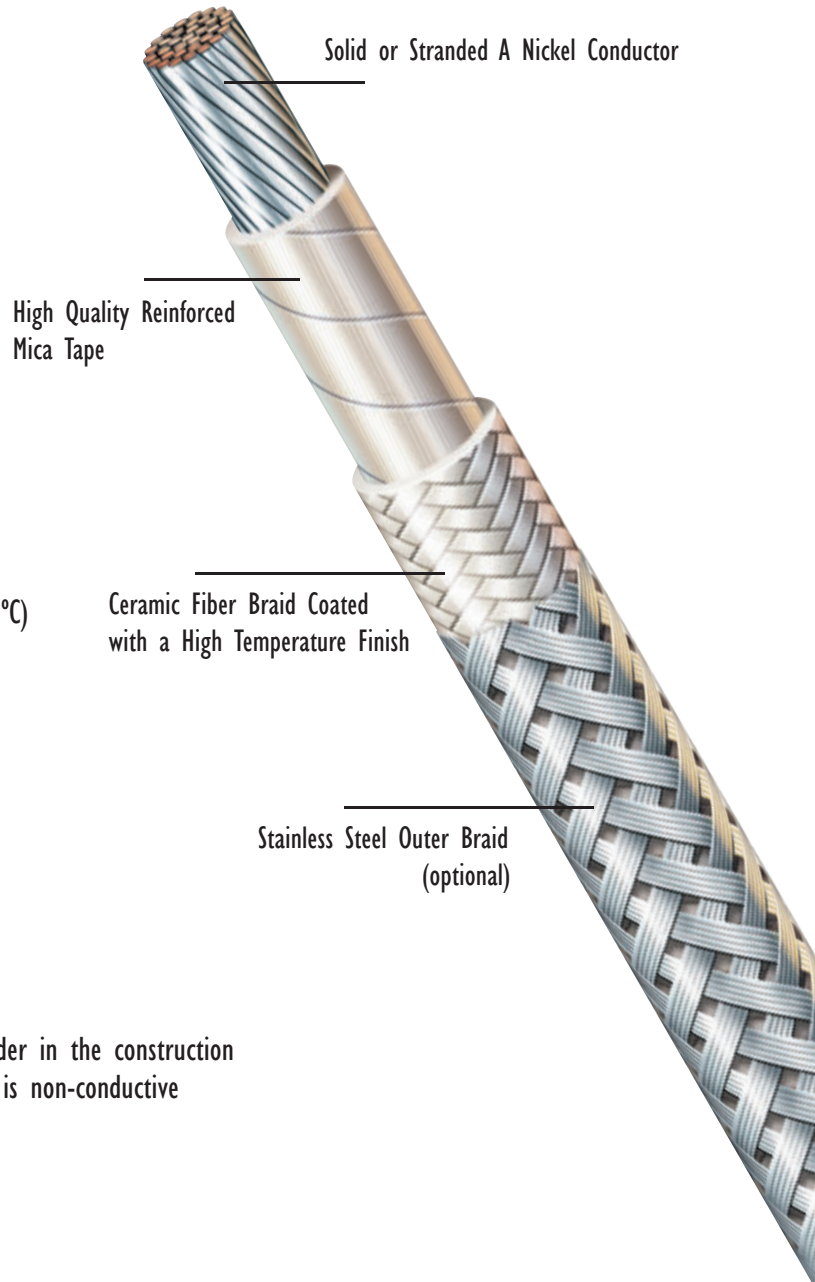
Stainless steel (Not recommended for applications exceeding 700°C)

CHARACTERISTICS

- Superior high temperature and oxidation resistance in normal temperatures to 1000°C
- Fire resistant
- Very low smoke emission when burned at rated temperature
- Resistant to many chemicals
- Maintains circuit integrity even when exposed to conditions of high ambient temperature and flame
- Optional stainless steel braid provides mechanical protection
- If wire is subjected to very rapid rise in temperature the binder in the construction can ignite but will quickly extinguish. The resulting white ash is non-conductive

APPLICATION

- For use in non-flexing applications.
- Wiring for ovens, kilns, and furnaces
- Where the normal installation environment includes continuous operating temperatures up to 1000°C and intermittent temperatures approaching 1200°C
- Not recommended for outdoor use



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SPECIFICATIONS

MCS FURNACE CABLE HIGH-TEMPERATURE LEAD WIRE

MCS FURNACE CABLE 700C/600V to 1000C/300V

Part No.	Awg. Size	# Strands	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
W/OUT STAINLESS STEEL SHIELD						
BTC18N016-0000-Z3000	18	16	0.156	3.96	14.52	21.61
BTC16N026-0000-Z3000	16	26	0.169	4.29	18.95	28.20
BTC14N041-0000-Z3000	14	41	0.182	4.62	24.97	37.16
BTC12N065-0000-Z3000	12	65	0.203	5.16	34.35	51.11
BTC10N105-0000-Z3000	10	105	0.230	5.84	50.15	74.62
BTC08N168-0000-Z3000	8	168	0.289	7.34	78.11	116.23
STAINLESS STEEL SHEILD (Not recommended for applications exceeding 700°C)						
BTC18N016-AR00-Z3000	18	16	0.181	4.60	26.64	39.64
BTC16N026-AR00-Z3000	16	26	0.194	4.93	31.57	46.98
BTC14N041-AR00-Z3000	14	41	0.208	5.28	38.1	56.69
BTC12N065-AR00-Z3000	12	65	0.228	5.79	49.49	73.64
BTC10N105-AR00-Z3000	10	105	0.255	6.48	68.03	101.23
BTC08N168-AR00-Z3000	8	168	0.314	7.98	99.25	147.68

Standard conductor: A nickel

Consult factory for alternate conductor and stranding options. Multi-conductor available on the data page.

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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)

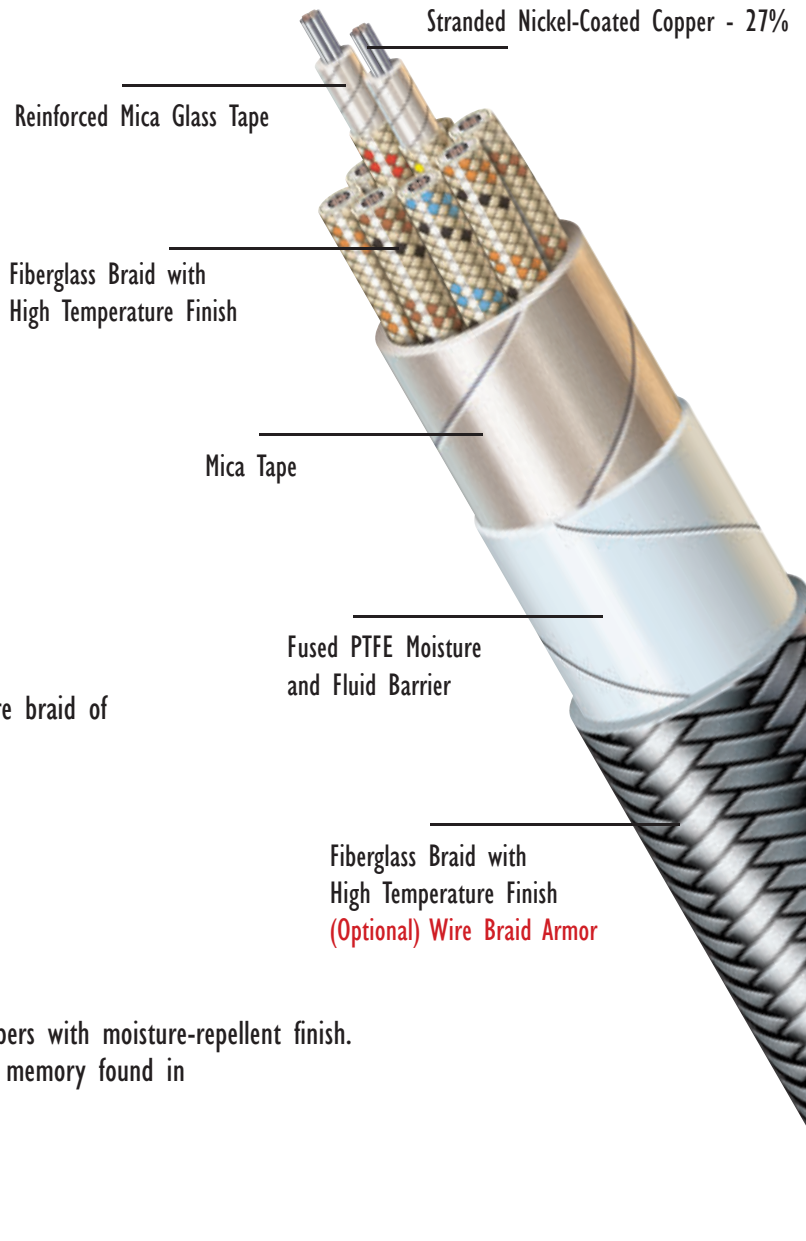
CHARACTERISTICS

- 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.

Revised 8/13



Radix Wire

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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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450C/600V

TMMG MUDGUN 450 HIGH-TEMPERATURE CABLE

RATINGS / APPROVALS

450°C – 600 Volts

CONSTRUCTION

Conductors

22 AWG – 2 AWG

Flexible stranded nickel-coated copper-27%

Insulating System

Fused PTFE fluoropolymer tape under 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

Fused PTFE fluoropolymer tape wrap under mica tape.

Outer Covering

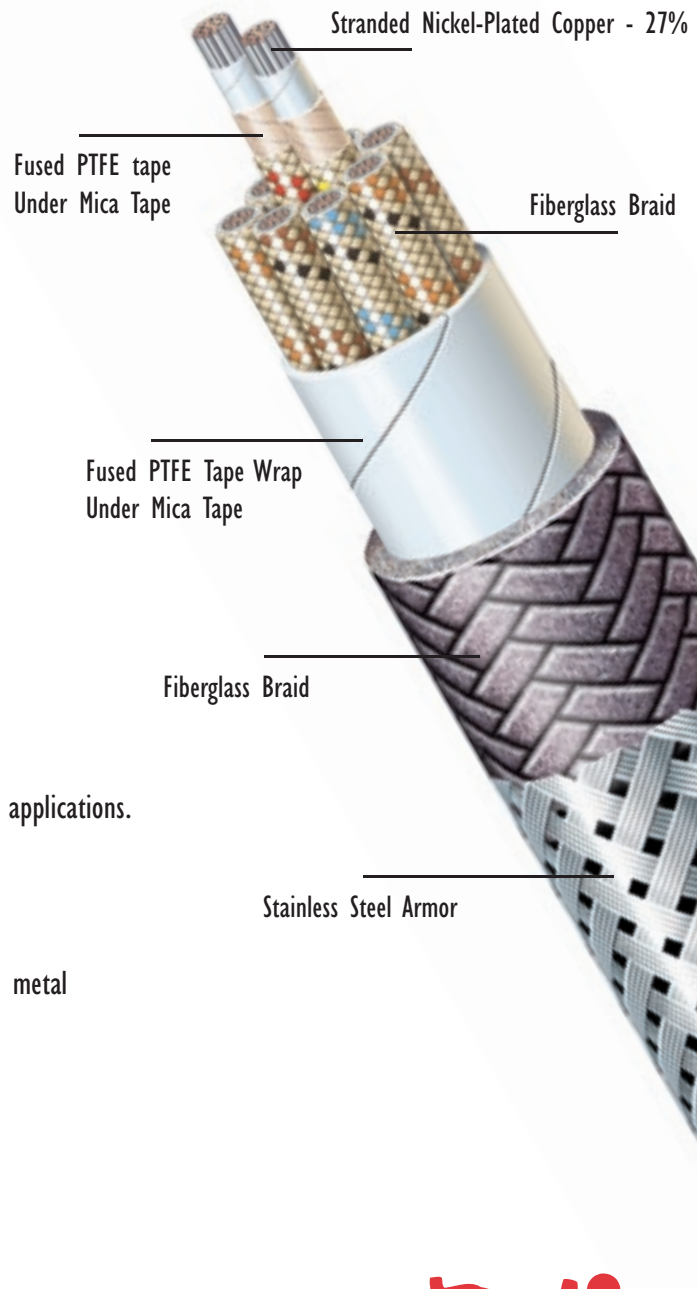
Glass braid jacket impregnated with moisture and heat resistant finish. Stainless steel armor.

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.
- Stainless steel jacket provides mechanical strength in severe duty applications.
- Not recommended for outdoor use.

APPLICATION

For use around blast furnaces, or where subject to sparks, splashing metal and repeated heating and cooling.



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SPECIFICATIONS

TMMG MUDGUN 450 HIGH-TEMPERATURE CABLE

TMMG MUDGUN 450 450C/600V

Part No.	Awg. Size	# Strands	# Leads	Outer Dia. inches	Outer Dia. mm	Wgt - lbs per 1000 ft.	Wgt - kg per km
BZ18GC02S	18	16	2	0.354	8.99	89.96	133.88
BZ18GC03S	18	16	3	0.374	9.50	108.75	161.85
BZ18GC04S	18	16	4	0.406	10.31	133.57	198.78
BZ18GC05S	18	16	5	0.444	11.28	147.79	219.95
BZ18GC06S	18	16	6	0.483	12.27	167.34	249.04
BZ16GC02S	16	26	2	0.377	9.58	106.60	158.65
BZ16GC03S	16	26	3	0.398	10.11	125.79	187.21
BZ16GC04S	16	26	4	0.433	11.00	151.90	226.06
BZ16GC05S	16	26	5	0.475	12.07	174.70	259.99
BZ16GC06S	16	26	6	0.517	13.13	199.85	297.42
BZ14GC02S	14	41	2	0.404	10.26	123.52	183.83
BZ14GC03S	14	41	3	0.427	10.85	150.54	224.04
BZ14GC04S	14	41	4	0.466	11.84	184.80	275.03
BZ14GC05S	14	41	5	0.512	13.00	212.20	315.80
BZ14GC06S	14	41	6	0.573	14.55	268.19	399.13
BZ12GC02S	12	65	2	0.444	11.28	148.41	220.87
BZ12GC03S	12	65	3	0.470	11.94	188.72	280.86
BZ12GC04S	12	65	4	0.513	13.03	235.46	350.42
BZ12GC05S	12	65	5	0.582	14.78	297.62	442.93
BZ12GC06S	12	65	6	0.633	16.08	336.78	501.21
BZ10GC02S	10	105	2	0.553	14.05	238.50	354.94
BZ10GC03S	10	105	3	0.588	14.94	299.17	445.24
BZ10GC04S	10	105	4	0.642	16.31	356.73	530.90
BZ10GC05S	10	105	5	0.708	17.98	432.90	644.26
BZ10GC06S	10	105	6	0.774	19.66	502.00	747.09

Standard conductor: Nickel Coated Copper-2%

Consult factory for alternate conductor and stranding options.

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DuraLife FPL® Shielded

UL 2-Hour Fire Certified FIRE RESISTIVE ALARM CABLES
FHIT & FHITC.28B Electrical Circuit Integrity System

SPECIFICATIONS



UL 2196 CERTIFIED / ULC-S139 COMPLIANT (FIRE ONLY) / UL 1424 LISTED. FHIT & FHITC SYSTEMS NO. 28B. LOW SMOKE, ZERO HALOGEN DESIGN (LSOH)

Shielded - 18AWG, 16AWG, 14AWG; 2-conductor; Circuit Integrity System
NEC Type FPL; for use in protective electrical system (EMT)

DuraLife FPL® Shielded - Fire Resistive Alarm Cables

CERTIFICATION LISTINGS:

18AWG solid OFHC; 2-conductor vertical straight-through w/ couplings in ¾" EMT conduit; 72" max. support spacing, pull box, 2 cables

18AWG solid OFHC; 2-conductor horizontal straight-through w/ couplings in ¾" EMT conduit; 48" max. support spacing

18AWG solid OFHC; 2-conductor horizontal straight-through w/ pull box in ¾" EMT conduit; 48" max. support spacing

18AWG solid OFHC; 2-conductor horizontal w/ mechanical splice in ¾" EMT conduit; 48" max. support spacing

18AWG solid OFHC; 2-conductor vertical w/ mechanical splice in ¾" EMT conduit; 72" max. support spacing

16AWG solid OFHC; 2-conductor vertical straight-through w/ couplings in 1" EMT conduit; 72" max. support spacing, pull box, 2 cables

16AWG solid OFHC; 2-conductor horizontal straight-through w/ couplings in ¾" EMT conduit; 48" max. support spacing

16AWG solid OFHC; 2-conductor horizontal straight-through w/ pull box in ¾" EMT conduit; 48" max. support spacing

16AWG solid OFHC; 2-conductor horizontal w/ mechanical splice in ¾" EMT conduit; 48" max. support spacing

14AWG 7-strand OFHC; 2-conductor vertical straight-through w/ couplings in 1" EMT conduit; 72" max. support spacing, pull box, 2 cables

14AWG 7-strand OFHC; 2-conductor horizontal straight-through w/ couplings in ¾" EMT conduit; 48" max. support spacing

14AWG 7-strand OFHC; 2-conductor horizontal straight-through w/ pull box in ¾" EMT conduit; 48" max. support spacing

14AWG 7-strand OFHC; 2-conductor horizontal w/ mechanical splice in ¾" EMT conduit; 48" max. support spacing

14AWG solid OFHC; 2-conductor vertical straight-through w/ couplings in 1" EMT conduit; 72" max. support spacing, pull box, 2 cables

14AWG solid OFHC; 2-conductor horizontal straight-through w/ couplings in ¾" EMT conduit; 48" max. support spacing

14AWG solid OFHC; 2-conductor horizontal straight-through w/ pull box in ¾" EMT conduit; 48" max. support spacing

14AWG solid OFHC; 2-conductor horizontal w/ mechanical splice in ¾" EMT conduit; 48" max. support spacing

HARDWARE SYSTEM CERTIFIED:

- EMT Conduit --- Wheatland*, Tube FasTrak Plus
- EMT Couplings --- Raco or Halex
- Mechanical Compression Fittings --- Cooper Crouse-Hinds
- NEMA 1 Splice Enclosure/Pull Box --- Cooper B-Line (Pull box size up to 12x12x4. Splice box size up to 8x8x4.)
- Enclosure Set-screw Fittings --- Hubbell
- Mechanical Connector --- Copper Set Screw Lug; (16AWG - 14AWG)
- Mechanical Connector --- Ceramic Wire Nut; Proheat (18AWG)
- Pulling Lubricant --- Polywater J

*Certified assemblies, no substitute of any kind can be made

COMPLIANCE:

UL 1424 Listed FPL for Power-Limited Fire Alarm Circuits; 300V/75°C classified

CSA Std. C22.2 No. 208-03

CSA Type FAS90, 300V FT1

Meets National Fire Protection Code (NFPA 70 & 72) fire alarm survivability circuit requirements

APPLICATION

Fire alarm circuit integrity (NEC Article 760), and emergency systems (NEC Articles 700 and 517). Suitable for 2-hr. certified fire-resistive applications in EMT conduit.*

Fire certified for Power-Limited system use at 72V phase-to-phase utilization voltages (16AWG, 14AWG)

Fire certified for Power-Limited system use at 50V phase-to-phase utilization voltages (18AWG)

Meets fire alarm survivability circuit requirements in the National Fire Protection Code (NFPA 72)



Radix™

www.radix-wire.com

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DuraLife FPL® Shielded

UL 2-Hour Fire Certified FIRE RESISTIVE ALARM CABLES
FHIT & FHITC.28B Electrical Circuit Integrity System

CONSTRUCTION:

Oxygen-free bare copper (OFHC) conductors, solid and stranded; proprietary ceramifiable silicone rubber insulation; color-code black and red insulation on leads, aluminum/aramid shield, and 22AWG solid TC drain Low smoke - zero halogen FRPE outer jacket. Black jacket color available at an additional charge
Patent Pending

PACKAGING:

Available on 1,000 ft., 2,000 ft. and 5,000 ft. standard length reels, smaller reels available from distributors

RADIX WIRE-II DURALIFE-W E241484 2/C 18 AWG SHIELDED FPL 75C / (UL) 2196 WITH HOSESTREAM/ (ULC) S139 NO HOSESTREAM/CLASSIFIED 2 HR. FIRE RESISTIVE CABLE FOR USE IN FHIT AND FHITC ELECTRICAL CIRCUIT INTEGRITY SYSTEM 28B. SEE FIRE RESISTANCE DIRECTORY R21213.// CSA LL13427 FAS90 300V FT1

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D.	MIN. - MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	CAPACITANCE (pF/Ft.)	IMPEDANCE @1 MHz (OHMS)
CI18A0102-104	2	18 SOLID	0.032"	0.035"	0.326"	+/-0.020"	51	9.8	19.4	93.3

RADIX WIRE-II DURALIFE-W E241484 2/C 16 AWG SHIELDED FPL 75C / (UL) 2196 WITH HOSESTREAM/ (ULC) S139 NO HOSESTREAM/CLASSIFIED 2 HR. FIRE RESISTIVE CABLE FOR USE IN FHIT AND FHITC ELECTRICAL CIRCUIT INTEGRITY SYSTEM 28B. SEE FIRE RESISTANCE DIRECTORY R21213.// CSA LL13427 FAS90 300V FT1

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D.	MIN. - MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	CAPACITANCE (pF/Ft.)	IMPEDANCE @1 MHz (OHMS)
CI16A0102-104	2	16 SOLID	0.032"	0.035"	0.340"	+/-0.020"	60	16.4	24.3	77.8

RADIX WIRE-II DURALIFE-W E241484 2/C 14 AWG SHIELDED FPL 75C / (UL) 2196 WITH HOSESTREAM/ (ULC) S139 NO HOSESTREAM/CLASSIFIED 2 HR. FIRE RESISTIVE CABLE FOR USE IN FHIT AND FHITC ELECTRICAL CIRCUIT INTEGRITY SYSTEM 28B. SEE FIRE RESISTANCE DIRECTORY R21213.// CSA LL13427 FAS90 300V FT1

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D.	MIN. - MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	CAPACITANCE (pF/Ft.)	IMPEDANCE @1 MHz (OHMS)
CI14A0702-104	2	14/7	.0032"	.0035"	0.380"	+/-0.020"	78	25.2	25.9	69.4
CI14A0102-104	2	14 SOLID	0.032"	0.035"	0.365"	+/-0.020"	75	24.8		

Certifications & EMT Fill Listings

Certifications	18 AWG	16 AWG	14 AWG
Solid Conductor	✓	✓	✓
7-Strand Conductor	■	■	✓
Single-Cable EMT Horizontal	¾" Wheatland	¾" - 1" Wheatland	¾" - 1" Wheatland
Single-Cable EMT Vertical	¾" Wheatland	¾" - 1" Wheatland	¾" - 1" Wheatland
Multi-Cable EMT Vertical	¾" Wheatland	¾" - 1" Wheatland	¾" - 1" Wheatland
Fill Rates	18 AWG	16 AWG	14 AWG
¾" EMT Horizontal	Up to 2 Cables	1 Cable	1 Cable
1" EMT Horizontal	■	Up to 2 Cables	Up to 2 Cables
¾" EMT Vertical	Up to 2 Cables	1 Cable	1 Cable
1" EMT Vertical	■	Up to 2 Cables	Up to 2 Cables

Note: 18AWG, 16AWG, and 14AWG cables may be installed within the same raceway when not exceeding the number of cables associated with the 14AWG installation.

All dimensions listed above are nominal

Compliance: UL Listed File No. E241484. Fire Directory R21213

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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SPECIFICATIONS

DuraLife™ FPL

UL 2-Hour Fire Certified FIRE RESISTIVE ALARM CABLES
FHIT.28A Electrical Circuit Integrity System



UL 2196 CERTIFIED / UL 1424 LISTED. FHIT SYSTEM NO. 28A. LOW SMOKE, ZERO HALOGEN DESIGN (LSOH)

Unshielded - 16AWG - 14AWG; 2-conductor; Circuit Integrity in Conduit (CIC)
NEC Type FPL; for use in protective electrical system (EMT)
California State Fire Marshals: LISTING No. 7162-2173:0100
DuraLife™ FPL - Fire Resistive Alarm Cables

CERTIFICATION LISTINGS:

16AWG solid OFHC; 2-conductor vertical straight-through w/ couplings in EMT conduit; 72" max. support spacing
16AWG solid OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing
16AWG solid OFHC; 2-conductor horizontal straight-through w/ pull box in 3/4" EMT conduit; 60" max. support spacing
16AWG solid OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

14AWG 7-strand OFHC; 2-conductor vertical straight-through w/ couplings in EMT conduit; 72" max. support spacing
14AWG 7-strand OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing
14AWG 7-strand OFHC; 2-conductor horizontal straight-through w/ pull box in EMT conduit; 60" max. support spacing
14AWG 7-strand OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

14AWG solid OFHC; 2-conductor vertical straight-through w/ couplings in EMT conduit; 72" max. support spacing
14AWG solid OFHC; 2-conductor horizontal straight-through w/ couplings in EMT conduit; 60" max. support spacing
14AWG solid OFHC; 2-conductor horizontal straight-through w/ pull box in EMT conduit; 60" max. support spacing
14AWG solid OFHC; 2-conductor horizontal w/ mechanical splice in 3/4" EMT conduit; 60" max. support spacing

HARDWARE SYSTEM CERTIFIED:

- EMT Conduit --- Wheatland*, Tube FasTrak Plus
- EMT Couplings --- Raco or Halex
- Compression Fittings --- Cooper Crouse-Hinds
- NEMA 1 Splice Enclosure/Pull Box --- Cooper B-Line (Pull box size up to 12x12x4)
- Set-screw Fittings --- Hubbell
- Copper Off-Set Fixed Lug Connector with 1/4-20 set-screw --- Penn-Union
- Pulling Lubricant --- Polywater J

*Certified assemblies, no substitute of any kind can be made

COMPLIANCE:

UL 1424 Listed FPL for Power-Limited Fire Alarm Circuits; 300V/90°C classified
UL Certified to UL 2196 2-hour fire rating in FHIT System 28A
Meets National Fire Protection Code (NFPA 70 & 72) fire alarm survivability circuit requirements

APPLICATION

Fire alarm circuit integrity (NEC Article 760), and emergency systems (NEC Articles 700 and 517).
Suitable for 2-hr. certified fire-resistive applications in EMT conduit.*
Fire certified for Power-Limited system use at 72V phase-to-phase utilization voltages.
Meets fire alarm survivability circuit requirements in the National Fire Protection Code (NFPA 72)

* DuraLife™ FPL products are not approved for use in RMC or IMC conduit systems



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DuraLife™ FPL

UL 2-Hour Fire Certified FIRE RESISTIVE ALARM CABLES FHIT.28A Electrical Circuit Integrity System

CONSTRUCTION:

Oxygen-free bare copper (OFHC) conductors, solid and stranded; proprietary ceramifiable silicone rubber insulation; color-code black and red insulation on leads

Low smoke - zero halogen FRPE outer jacket. Black jacket color available at an additional charge

Patent Pending

PACKAGING:

Available on 1,000 ft., 2,000 ft. and 5,000 ft. standard length reels, smaller reels available from distributors

RADIX WIRE-II DURALIFE™ E241484 2/C 16 AWG SHIELDED FPL 90C / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT INTEGRITY SYSTEM 28A. SEE UL FIRE RESISTANCE DIRECTORY R21213 CSA LL13427 FAS90 300V FT1 - (MONTH/YEAR)

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MIN. - MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	NOMINAL CAPACITANCE (pF/FT)	CHARACTERISTIC IMPEDANCE @1MHZ (OHMS)
CI16A0102	2	16 SOLID	0.032"	0.035"	0.292"	0.272" - 0.312"	55.41	15.6	15.3	110.9

RADIX WIRE-II DURALIFE™ E241484 2/C 14 AWG SHIELDED FPL 90C / (UL) CLASSIFIED FIRE RESISTIVE CABLE FOR USE IN ELECTRICAL CIRCUIT INTEGRITY SYSTEM 28A. SEE UL FIRE RESISTANCE DIRECTORY R21213 CSA LL13427 FAS90 300V FT1 - (MONTH/YEAR)

RADIX P/N	#COND	AWG	NOMINAL INSUL THICKNESS (INCH)	NOMINAL JACKET THICKNESS (INCH)	NOMINAL O.D. (INCH)	MIN. - MAX. SPEC. RANGE	NET WEIGHT (LBS PER MFT)	COPPER LBS/MFT	NOMINAL CAPACITANCE (pF/FT)	CHARACTERISTIC IMPEDANCE @1MHZ (OHMS)
CI14A0702	2	14/7	0.032"	.0035"	0.332"	0.312"-0.352"	61.1	25.1	17.3	99.4
CI14A0102	2	14 SOLID	0.032"	0.035"	0.326"	0.322"-0.334"	59.01	25.62		

Certifications & EMT Fill Listings

Certifications	16 AWG	14 AWG
Solid Conductor	✓	✓
7-Strand Conductor	-	✓
Single-Cable EMT Horizontal	¾" - 2" Wheatland	¾" - 2" Wheatland
Single-Cable EMT Vertical	½" - 2" Wheatland	½" - 2" Wheatland
Multi-Cable EMT Vertical	¾" - 2" Wheatland	¾" - 2" Wheatland
Fill Rates	16 AWG	14 AWG
½" EMT Vertical	1 Cable	1 Cable
¾" EMT Horizontal	1 Cable	Up to 2 Cables
1" EMT Horizontal	Up to 2 Cables	Up to 2 Cables
¾" - 1" EMT Vertical	Up to 4 Cables	Up to 3 Cables
1¼" EMT Vertical & Horizontal	Up to 4 Cables	Up to 3 Cables
1½" EMT Vertical & Horizontal	Up to 6 Cables	Up to 4 Cables
2" EMT Vertical & Horizontal	Up to 10 Cables	Up to 8 Cables

Note: 16AWG, and 14AWG cables may be installed within the same raceway when not exceeding the number of cables associated with the 14AWG installation.

All dimensions listed above are nominal

Compliance: UL Listed File No. E241484. Fire Directory R21213

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