



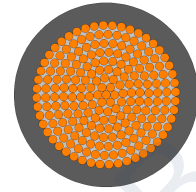
TEBAOFLEX CABLE

DATA SHEET

High-Volt Lead Wire

BRAIDLESS SILICONE HIGH-VOLT LEAD WIRE

200 °C / 3 kV, 5 kV, 8 kV and 15 kV silicone insulated cable



APPLICATION

Flexible high-voltage lead wire for internal wiring, equipment leads and demanding industrial installations where silicone insulation, high temperature capability and excellent flexibility are required.

CONSTRUCTION

Component	Description
Conductors	2 AWG - 350 MCM stranded tinned copper
Optional conductor	Nickel plated copper available on request
Insulation	Extruded silicone rubber
Color coding	Available in colors and stripes

CHARACTERISTICS

- Superior flexibility for high-voltage lead wire applications.
- Silicone formulation suitable for UV, ozone and moisture exposure.
- Not suited for immersed applications.
- Available with color coding and stripe identification.
- 3 kV and 5 kV constructions are rated to NEMA WC 71.
- 8 kV and 15 kV constructions are factory rated.

KEY PARAMETERS

Key Parameter	Value
Temperature rating	200 °C
Voltage rating	3 kV, 5 kV, 8 kV and 15 kV
Conductor range	2 AWG to 350 MCM
Standard	NEMA WC 71 for 3 kV and 5 kV constructions
Low-temperature use	Suitable for applications to -60 °C
Dimensions	All listed dimensions are nominal

NOTES

- Standard conductor data is based on stranded tinned copper; nickel plated copper is available on request.
- Dimensions and weights are nominal values and may vary due to manufacturing tolerances.
- For immersed applications, select an insulation system specifically rated for continuous immersion.

TECHNICAL DATA

DIMENSIONS AND ELECTRICAL CHARACTERISTICS

Values are technical parameters only. Cable dimensions may vary due to manufacturing tolerances.

Voltage rating	AWG size	No. of strands	Final O.D. in	Final O.D. mm	Weight lbs/Mft	Weight kg/km	Min. bend radius in	NEMA
BRAIDLESS SILICONE 200 °C / 3000 V								
3000 V	2	259	0.580	14.73	300.84	447.72	4.64	WC71
3000 V	1	259	0.615	15.62	357.41	531.91	4.92	WC71
3000 V	1/0	259	0.670	17.02	443.82	660.51	5.36	WC71
3000 V	2/0	259	0.716	18.19	536.58	798.56	5.73	WC71
3000 V	3/0	259	0.825	20.96	795.91	1184.50	6.60	WC71
3000 V	350 MCM	427	1.000	25.40	1249.68	1859.82	8.00	WC71
BRAIDLESS SILICONE 200 °C / 5000 V								
5000 V	2	259	0.638	16.21	347.00	516.42	5.10	WC71
5000 V	1	259	0.678	17.22	413.12	614.82	5.42	WC71
5000 V	1/0	259	0.723	18.36	495.40	737.27	5.78	WC71
5000 V	2/0	259	0.776	19.71	597.47	889.18	6.21	WC71
5000 V	4/0	259	0.903	22.94	882.42	1313.25	7.22	WC71
5000 V	350 MCM	427	1.041	26.44	1289.08	1918.46	8.33	WC71
BRAIDLESS SILICONE 200 °C / 8000 V								
8000 V	2	259	0.691	17.55	365.33	543.70	5.53	N/A
8000 V	1	259	0.726	18.44	425.41	633.11	5.81	N/A
8000 V	1/0	259	0.781	19.84	517.54	770.22	6.25	N/A
8000 V	2/0	259	0.827	21.01	614.91	915.13	6.62	N/A
8000 V	4/0	259	0.936	23.77	896.91	1334.81	7.49	N/A
8000 V	350 MCM	427	1.111	28.22	1357.29	2019.97	8.89	N/A
BRAIDLESS SILICONE 200 °C / 15000 V								
15000 V	2	259	0.918	23.32	513.22	763.79	7.34	N/A
15000 V	1	259	0.958	24.33	620.60	923.60	7.66	N/A
15000 V	1/0	259	1.003	25.48	714.27	1063.00	8.02	N/A
15000 V	2/0	259	1.055	26.80	791.41	1177.81	8.44	N/A
15000 V	3/0	259	1.115	28.32	930.49	1384.79	8.92	N/A
15000 V	4/0	259	1.182	30.02	1101.97	1639.99	9.46	N/A
15000 V	350 MCM	427	1.321	33.55	1588.54	2364.12	10.57	N/A

RATINGS

- Temperature rating: 200 °C.
- Voltage ratings: 3 kV, 5 kV, 8 kV and 15 kV.
- Conductor range: 2 AWG to 350 MCM.
- Low-temperature applications: suitable to -60 °C.
- NEMA WC 71 applies to 3 kV and 5 kV constructions.
- 8 kV and 15 kV constructions are factory rated.

CERTIFICATIONS



TEBAOFLEX CABLE