

APPLICATION:

General purpose cable for use in primary power and feeder circuits in a broad range of commercial and industrial applications. Approved for installation indoors or outdoors aerially, in conduits, ducts, cable trays, or direct burial in circuits not exceeding 600 volts. May be used in NEC Class I and II, Division 2 hazardous locations. UL approved for use in continuous operation at 90°C in wet and dry locations, 105°C for short circuit conditions.

CONDUCTORS:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8

INSULATION:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire

GROUNDING CONDUCTOR:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277

JACKET:

Sunlight-resistant PVC per UL Standard 1277

COLOR CODE:

ICEA Method 4

FLAME TEST:

IEEE 1202/FT4 70,000 BTU/hour flame test

ADDITIONAL STANDARDS:

- UL Type TC per Article 336 of the NEC
- UL Type TC-ER Rated for Exposed Run
- Cold Temperature Rated at -40°C
- Cold Bend -25°C
- Sunlight Resistance
- Oil Resistance-I
- Direct Burial
- Joist Pulling
- FT4/IEEE 1202



DISTRIBUTOR WIRE & CABLE

VNGTC 8 AWG-500 MCM

DWC Part No.	Conductor Size (AWG/MCM)	No. of Conductors	No. of Strands	Ground Size (AWG)	Insulation Thickness		Jacket Thickness		Overall Diameter (approx.)		Total Weight (lbs/1000ft)	Bending Radius (min)		Max. Pull Tension (lbs)
					mm	inch	mm	inch	mm	inch		mm	inch	
1203VNGTC	12	3	7	12	0.38	0.0149	1.14	0.045	10.50	0.413	136.77	63	2.48	156
1003VNGTC	10	3	7	10	0.51	0.020	1.14	0.04	12.50	0.49	204.77	75	2.95	253
0803VNGTC	8	3	7	10	0.76	0.030	1.52	0.060	16.50	0.650	332.08	99	3.90	388
0804VNGTC	8	4	7	10	0.76	0.030	1.52	0.060	18.00	0.709	410.77	108	4.25	517
0603VNGTC	6	3	7	8	0.76	0.030	1.52	0.060	19.00	0.748	471.77	114	4.49	616
0604VNGTC	6	4	7	8	0.76	0.030	1.52	0.060	20.50	0.807	587.21	123	4.84	821
0403VNGTC	4	3	7	8	1.02	0.040	2.03	0.080	24.00	0.945	727.50	144	5.67	982
0404VNGTC	4	4	7	8	1.02	0.040	2.03	0.080	26.50	1.043	912.09	159	6.26	1,309
0203VNGTC	2	3	19	6	1.02	0.040	2.03	0.080	27.50	1.083	1,047.52	165	6.50	1,556
0204VNGTC	2	4	19	6	1.02	0.040	2.03	0.080	30.00	1.181	1,322.31	180	7.09	2,074
0103VNGTC	1	3	19	6	1.27	0.050	2.03	0.080	31.50	1.240	1,303.33	189	7.44	1,963
0104VNGTC	1	4	19	6	1.27	0.050	2.03	0.080	34.50	1.358	1,654.29	207	8.15	2,618
1/003VNGTC	1/0	3	19	6	1.27	0.050	2.03	0.080	34.00	1.339	1,553.04	204	8.03	2,477
1/004VNGTC	1/0	4	19	6	1.27	0.050	2.03	0.080	37.00	1.457	1,982.96	222	8.74	3,303
2/003VNGTC	2/0	3	19	6	1.27	0.050	2.03	0.080	37.00	1.457	1,858.18	222	8.74	3,121
2/004VNGTC	2/0	4	19	6	1.27	0.050	2.03	0.080	40.50	1.594	2,384.65	243	9.57	4,161
3/003VNGTC	3/0	3	19	4	1.27	0.050	2.03	0.080	40.00	1.575	2,305.16	240	9.45	3,936
3/004VNGTC	3/0	4	19	4	1.27	0.050	2.79	0.110	45.00	1.772	2,957.04	270	10.63	5,248
4/003VNGTC	4/0	3	19	4	1.27	0.050	2.79	0.110	45.00	1.772	2,778.33	270	10.63	4,955
4/004VNGTC	4/0	4	19	4	1.27	0.050	2.79	0.110	49.50	1.949	3,580.99	297	11.69	6,606
25003VNGTC	250	3	37	4	1.52	0.060	2.79	0.110	49.00	1.929	3,374.20	294	11.57	5,881
25004VNGTC	250	4	37	4	1.52	0.060	2.79	0.110	53.50	2.106	4,337.89	321	12.64	7,841
30003VNGTC	300	3	37	4	1.52	0.060	2.79	0.110	48.00	1.890	3,966.72	288	11.34	7,199
30004VNGTC	300	4	37	3	1.52	0.060	2.79	0.110	53.00	2.087	5,107.02	318	12.52	7,680
35003VNGTC	350	3	37	3	1.52	0.060	2.79	0.110	51.50	2.028	4,514.35	309	12.17	8,196
35004VNGTC	350	4	37	3	1.52	0.060	2.79	0.110	57.00	2.244	5,826.94	342	13.46	10,928
50003VNGTC	500	3	37	2	1.52	0.060	2.79	0.110	59.00	2.323	6,186.66	354	13.94	14,077
50004VNGTC	500	4	37	2	1.52	0.060	2.79	0.110	65.00	2.559	6,342.59	390	15.35	18,769

***Maximum Sidewall Pressure - 300lbs. Tolerance - 20.0mm or less of Overall Diameter: ±10% / 20.1 mm or more of Overall Diameter: ±5%

Product details and specifications are subject to manufacturing variations and accepted industry tolerances. Please contact your DWC Account Manager with questions or to confirm specific product requirements.

Questions? Contact Your Account Manager Today!

888-439-2947

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