VNTC CONTROL CABLE

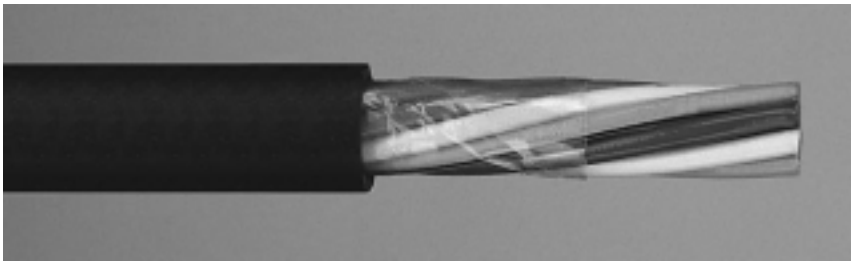
BICCCables

SPECIFICATION #VNTC-C-0001

CONTROL CABLE

UL TYPE TC
600V

PVC/NYLON/PVC



Description

Conductors:
Bare, annealed copper per ASTM B3; Class B stranding per ASTM B8

Sizes:
#18 AWG through #10 AWG

Insulation:
Flame-retardant colored polyvinyl chloride (PVC)

Conductor Jacket:
Color coded, extruded clear polyamide (nylon)

Color Code:
Per ICEA Method 1; Table K-2 (does not include white or green)

Cable Core:
Conductors are cabled with non-hygroscopic, fillers where necessary, and an overall binder tape.

Overall Jacket:
Flame-retardant and sunlight-resistant polyvinyl chloride (PVC)

Options:
- Tinned copper conductors
- Insulated or uninsulated ground conductors
- Copper tape shield or aluminum/polymer tape shield with tinned copper drain wire over cable core
- Duralox® aluminum interlocked armor
- Table K-1 color code
- Intergrabon® Moisture Barrier System

Features and Benefits

Temperature Rating:
- THHN/THWN conductors .....90°C Dry or 75° C Wet
- TFN/TFFN conductors .....90°C Dry

VNTC Control Cable Listings:
- UL Type TC
- NEC Type THHN/THWN single conductors #14 AWG and larger
- NEC Type TFN or TFFN conductors for #18 and #16 AWG

Flame-retardant PVC insulation is a thermoplastic material.

Nylon conductor jacket is heat and light stabilized and provides low moisture absorption characteristics.

VNTC Control Cables:
- Provide outstanding sunlight, cold bend and cold impact resistance
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 1277 (70,000 BTU/hr)
- Offer the smallest cable O.D. available for suitable applications
- Provide excellent oil and chemical resistance
- Provide a long service life

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where environmental factors require cable characteristics including a degree of flame-retardance and resistance to moisture and chemicals.

May Be Installed:
- In raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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PVC/NYLON/PVC CONTROL CABLE – UL TYPE TC 600V VNTC

BICC Part Number	AWG and Stranding	Number of Conductors	Insulation Thickness (inches	Jacket Thickness (inches	Nominal O.D. (inches	Net Weight (lbs/1000 ft)
T-86999(2/18)	**18 AWG 7/.0152**	**2 Flat**	**0.020**	**0.045**	**0.190 x 0.285**	**36**
T-87000(2/18)	18 AWG 7/.0152	2	0.020	0.045	0.270	38
T-87000(3/18)	18 AWG 7/.0152	3	0.020	0.045	0.285	46
T-87000(4/18)	18 AWG 7/.0152	4	0.020	0.045	0.310	56
T-87000(5/18)	18 AWG 7/.0152	5	0.020	0.045	0.335	65
T-87000(7/18)	18 AWG 7/.0152	7	0.020	0.045	0.360	82
T-87000(9/18)	18 AWG 7/.0152	9	0.020	0.045	0.420	105
T-87000(10/18)	18 AWG 7/.0152	10	0.020	0.045	0.450	114
T-87000(12/18)	18 AWG 7/.0152	12	0.020	0.045	0.460	131
T-87000(15/18)	18 AWG 7/.0152	15	0.020	0.045	0.510	162
T-87000(19/18)	18 AWG 7/.0152	19	0.020	0.060	0.570	209
T-87000(25/18)	18 AWG 7/.0152	25	0.020	0.060	0.655	266
T-87000(30/18)	18 AWG 7/.0152	30	0.020	0.060	0.695	310
T-87000(37/18)	18 AWG 7/.0152	37	0.020	0.060	0.745	371
T-86999(2/16)	**16 AWG 7/.0192**	**2 Flat**	**0.020**	**0.045**	**0.200 x 0.310**	**48**
T-87000(2/16)	16 AWG 7/.0192	2	0.020	0.045	0.300	50
T-87000(3/16)	16 AWG 7/.0192	3	0.020	0.045	0.315	60
T-87000(4/16)	16 AWG 7/.0192	4	0.020	0.045	0.340	74
T-87000(5/16)	16 AWG 7/.0192	5	0.020	0.045	0.370	97
T-87000(7/16)	16 AWG 7/.0192	7	0.020	0.045	0.400	111
T-87000(9/16)	16 AWG 7/.0192	9	0.020	0.045	0.460	141
T-87000(10/16)	16 AWG 7/.0192	10	0.020	0.045	0.500	154
T-87000(12/16)	16 AWG 7/.0192	12	0.020	0.045	0.515	178
T-87000(15/16)	16 AWG 7/.0192	15	0.020	0.060	0.605	239
T-87000(19/16)	16 AWG 7/.0192	19	0.020	0.060	0.635	284
T-87000(25/16)	16 AWG 7/.0192	25	0.020	0.060	0.735	364
T-87000(30/16)	16 AWG 7/.0192	30	0.020	0.060	0.775	426
T-87000(37/16)	16 AWG 7/.0192	37	0.020	0.080	0.880	548
T-87000(50/16)	16 AWG 7/.0192	50	0.020	0.080	1.550	721
T-86999(2/14)	**14 AWG 7/.0242**	**2 Flat**	**0.020**	**0.045**	**0.240 x 0.325**	**62**
T-87000(2/14)	14 AWG 7/.0242	2	0.020	0.045	0.320	64
T-87000(3/14)	14 AWG 7/.0242	3	0.020	0.045	0.345	80
T-87000(4/14)	14 AWG 7/.0242	4	0.020	0.045	0.375	100
T-87000(5/14)	14 AWG 7/.0242	5	0.020	0.045	0.410	118
T-87000(7/14)	14 AWG 7/.0242	7	0.020	0.045	0.445	153
T-87000(9/14)	14 AWG 7/.0242	9	0.020	0.060	0.550	213
T-87000(10/14)	14 AWG 7/.0242	10	0.020	0.060	0.595	231
T-87000(12/14)	14 AWG 7/.0242	12	0.020	0.060	0.610	267
T-87000(15/14)	14 AWG 7/.0242	15	0.020	0.060	0.675	330
T-87000(19/14)	14 AWG 7/.0242	19	0.020	0.080	0.710	396
T-87000(25/14)	14 AWG 7/.0242	25	0.020	0.080	0.870	548
T-87000(30/14)	14 AWG 7/.0242	30	0.020	0.080	0.915	637
T-87000(37/14)	14 AWG 7/.0242	37	0.020	0.080	0.985	766
T-87000(50/14)	14 AWG 7/.0242	50	0.020	0.080	1.090	1013
T-86999(2/12)	**12 AWG 7/.0305**	**2 Flat**	**0.020**	**0.045**	**0.260 x 0.360**	**83**
T-87000(2/12)	12 AWG 7/.0305	2	0.020	0.045	0.355	85
T-87000(3/12)	12 AWG 7/.0305	3	0.020	0.045	0.385	110
T-87000(4/12)	12 AWG 7/.0305	4	0.020	0.045	0.420	138
T-87000(5/12)	12 AWG 7/.0305	5	0.020	0.045	0.445	165
T-87000(7/12)	12 AWG 7/.0305	7	0.020	0.045	0.500	217
T-87000(9/12)	12 AWG 7/.0305	9	0.020	0.060	0.615	297
T-87000(10/12)	12 AWG 7/.0305	10	0.020	0.060	0.665	324
T-87000(12/12)	12 AWG 7/.0305	12	0.020	0.060	0.685	377
T-87000(15/12)	12 AWG 7/.0305	15	0.020	0.060	0.760	468
T-87000(19/12)	12 AWG 7/.0305	19	0.020	0.060	0.800	568
T-87000(25/12)	12 AWG 7/.0305	25	0.020	0.080	0.980	775
T-87000(30/12)	12 AWG 7/.0305	30	0.020	0.080	1.040	913
T-87000(37/12)	12 AWG 7/.0305	37	0.020	0.080	1.120	1100
T-87000(50/12)	12 AWG 7/.0305	50	0.020	0.080	1.300	1520
T-86999(2/10)	**10 AWG 7/.0385**	**2 Flat**	**0.026**	**0.045**	**0.280 x 0.430**	**125**
T-87000(2/10)	10 AWG 7/.0385	2	0.026	0.045	0.420	128
T-87000(3/10)	10 AWG 7/.0385	3	0.026	0.045	0.465	165
T-87000(4/10)	10 AWG 7/.0385	4	0.026	0.045	0.505	209
T-87000(5/10)	10 AWG 7/.0385	5	0.026	0.060	0.590	268
T-87000(7/10)	10 AWG 7/.0385	7	0.026	0.060	0.640	350
T-87000(9/10)	10 AWG 7/.0385	9	0.026	0.060	0.745	452
T-87000(12/10)	10 AWG 7/.0385	12	0.026	0.080	0.875	610
T-87000(15/10)	10 AWG 7/.0385	15	0.026	0.080	0.970	754
T-87000(19/10)	10 AWG 7/.0385	19	0.026	0.080	1.020	913

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