

TROMPETER CABLE SPECIFICATIONS

Trompeter Cable Specs

Trompeter cables are manufactured to the listed specifications and offer optimum flexibility, shielding, and performance. Cables with stranded center conductors have greater flexibility and are recommended for short runs at low frequency where constant cable movement might fatigue a single copper-weld center conductor. Trompeter's **M17/176-00002** and **TWAC-78-1F2** are 200°C, Hi-Temp Cables for MIL-STD-1553B data bus applications. Dielectric and fillers made of PTFE (Teflon™) and outer jackets are PFA (Perfluoroalkoxy). All dimensions are in inches. All values without tolerances are *nominal* unless otherwise stated. **TWCH-78-2** has jacket constructed of *flame retardant halogen free polyolefin* with temperature range of -30°C to +80°C.

TWCP = Twinax Plenum Cable

TWCH = Twinax Blue Flame Retardant Halogen Free Polyolefin Cable

TRCH = Triax Yellow Flame Retardant Halogen Free Polyolefin Cable

Coax Cable Specs

COAX			
Cable Designation	TCC-50-2	TCC-75-2	RG62 A/U
Impedance (Ohms)	50±2	75±3	93±5
Nominal outer dia.	0.195	0.242	0.242
PVC outer	Green	Violet	Black
Braid outer dia.	0.150 Max	0.191 Max	0.191 Max
Braid AWG#/Mat'l	36/Tinned Cu	34/Bare Cu	34/Bare Cu
Dielectric outer dia.	0.116	0.146	0.146
Dielectric mat'l	Solid PE	Foamed PE	PE
Conductor outer dia.	0.0355	0.031	0.0253
Conductor strands/Mat'l	19/.0071 Tinned Cu	7/.010 Tinned Cu	Solid/CCS
Operating temperature range	-40°C to +90°C	-40°C to 85°C	-40°C to 80°C
Minimum bend radius	1.00	1.00	
Max. Opr. VAC (RMS)	1.4 KV	800 V	750 V
Capacitance pf/ft (Max)	30.8	17.3	14.5
Cond. Loop Res. (Ohms/M ft.)		17.6	
Atten. dB/100 ft:			
1 MHz	0.380	0.335	0.250
10 MHz	1.400	1.070	0.900
50 MHz	3.40	2.40	1.90
100 MHz	4.90	3.40	2.80
200 MHz	7.30	4.85	3.70
400 MHz		9.00	5.20
1 GHz	28.80	12.00	8.50
3 GHz		30.00	
Shielded Coverage	93%	93%	94.3% Min

For high temperature cables, see chart on the next page.

Exploded Detail of Coax, Twinax, & Triax Cable

