

TROMPETER CABLE SPECIFICATIONS

Twinax/Triax Cable Specs

Cable Designation	TWINAX						TRIAX			
	TWC-78-1	TWC-78-2	HIGH TEMP:		TWC-124-1A	TWC-124-2	TRC-50-1	TRC-50-2	TRC-75-1	TRC-75-2
			M17/176-00002	TWAC-78-1F2						
Impedance (Ohms)	78±3	78±3	77±7	77±7	124±4	124±4	50±2	50±2	75±5	75±5
Nominal outer dia.	0.150	0.242	0.129	0.095	0.150	0.245	0.156	0.245	0.189	0.245
Outer braid dia.	0.108	0.195 Max	0.102	0.070	0.105	0.195 Max	0.121	0.210 Max	0.150	0.205
Core outer dia.	0.085	0.154	0.084	0.052	0.085	0.162				
Dielectric outer dia.	0.043	0.076	0.042	0.026	0.043	0.080	0.047	0.116	0.073	0.116
Inner braid outer dia.							0.069 Max	0.146 Max	0.093	0.146 Max
Inner jacket outer dia.							0.101	0.175	0.130	0.175
Conductor outer dia.	.022	0.0370	0.0230 Min.	0.0149	0.0120	0.0220	0.0150	0.0370	0.0120	.0185
Operating temperature Range	-40°C to 80°C	-40°C to 80°C	-55°C to +200°C	-55°C to +200°C	-40°C to +80°C	-40°C to +80°C	-40°C to +75°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Minimum bend radius (in.)	1.50 Max	1.25	1.50	1.25	1.50	1.25	0.75	1.25	1.00	1.25
Max. Opr. VDC	0.6 KV Max	2.0 KV			0.6 KV	2.0 KV	2.0 KV	6.0 KV	2.0 KV	6.0 KV Max
Max. Opr. VAC (RMS)	0.3 KV Max	1.0 KV	750 KV Max	250	0.3 KV	1.0 KV	1.0 KV	2.0 KV	1.0 KV	2.0 KV Max
Capacitance pf/ft. (Max)	20.30 Max (2)	21.20 (3)	24.00	23.00	12.40	12.30 (3)	29.50	32.00 (1)	20.00	20.50 (1)
Cond. loop res. (Ohms/M ft.)	179 Max	19.00 Max	48.00	146.00	570.60	56.80 Max				
Atten. dB/100 ft.:										
1 MHz	2.000	0.700	1.400	2.000	3.250	0.540	2.800	0.500	0.900	0.480
3 MHz	3.000	1.100	2.100		4.400	0.920	3.100	0.800	1.300	0.880
4 MHz	3.500	1.400	2.400		4.800	1.060	3.300	0.900	1.500	1.010
5 MHz	4.000	1.550	2.800		5.200	1.180	3.400	1.100	1.700	1.100
7 MHz	4.500	1.800	3.500		5.600	1.400	3.700	1.300	1.900	1.300
10 MHz	5.300	2.200	4.50 Max	6.500	5.900	1.650	4.100	1.500	2.400	1.500
20 MHz	7.50	3.10			8.30	2.30	5.50	2.30	3.60	2.30
30 MHz	9.20	3.90			10.20	2.80	7.00	2.90	4.50	2.90
40 MHz	10.60	4.50			11.80	3.20	7.50	3.40	5.40	3.30
50 MHz	11.90	5.10			13.20	3.60	9.10	3.90	6.10	3.60
100 MHz	16.80	7.50			18.70	5.10	14.00	5.80	9.70	5.20
200 MHz	23.70	10.50			26.40	7.20	22.00	8.80	16.50	7.60
500 MHz	37.50	16.00			41.70	11.40	40.00	15.30	28.50	10.80
700 MHz	44.30	18.60			49.40	13.50	50.00	18.00	36.00	14.70
1 GHz	53.00	22.50			59.00	16.20	63.00	23.00	45.00	17.60
Shielded coverage	93%	93%	93.3%	90% Min.	93%	93%	93% Min.	93%	93% Min.	93%
Twist per ft.	8.00	4.00	11-14	16.00	8.00	4.00				

Twinax/Triax: Plenum/Halogen Free Cable Specs

Notes:

- (1) = Center Conductor to Inner Braid
- (2) = Conductor to Shield
- (3) = Conductor to Conductor

Cable Designation	TWINAX						TRIAX
	TWCP-78-1	TWCP-78-2	TWCH-78-2	TWCP-124-2	TWCP-124-3	TWCP-124-5	TRCH-50-2
Description	Plenum	Plenum	Halogen Free	Plenum	Plenum	Plenum	Halogen Free
Impedance (Ohms)	78±3	78±3	78±3	124±4	124±4	124±5	50±2
Nominal outer dia.	0.150	0.242	0.242	0.245	0.205	0.325	0.245
Outer braid dia.	0.102	0.165	0.195	0.183	0.183	0.295	0.210
Core outer dia.			0.154	0.163			
Dielectric outer dia.	0.041	0.072	.076	0.080	0.062	0.134	0.116
Inner braid outer dia.						0.043	0.146
Inner jacket outer dia.							0.175
Conductor outer dia.	0.021	0.037	0.037	0.024	0.024	0.048	0.037
Operating temperature range	+125°C	+125°C	-30°C to +80°C	+125°C	-10°C to +75°C	-10°C to +125°C	-30°C to +80°C
Minimum bend radius (in/ft.)	1.50	2.50	1.25	2.5	2.0	3.25	1.25
Max. Opr. VDC			2KV	2500	2500	2500	6 KV
Max. Opr. VAC (RMS)			1KV	1KV	1800	1800	2 KV
Capacitance pf/ft. (Max)	19.6 (3)	18.6(3)	21.2(3)	11.5	12.0(3)	11.0(3)	
Cond. loop res. (Ohms/M ft.)			19.0	47.0	28.4	6.5(3)	10.5
Atten. dB/100 ft.:							
1 MHz	2.00	.60	0.70	.50	0.60	.30	0.50
3 MHz	3.00	1.00	1.10	.85	0.90	.47	0.80
4 MHz	3.50	1.20	1.40		1.10	.64	0.90
5 MHz	4.00	1.40	1.55	1.10	1.20	.69	1.10
7 MHz	4.50	1.60	1.80	1.30	1.40	.79	1.30
10 MHz	5.30	2.00	2.20	1.60	1.60	.94	1.50
20 MHz	7.50	2.80	3.10	2.30	2.20	1.20	2.30
30 MHz	9.20	3.50	3.90		2.80	1.50	2.90
40 MHz	10.60	4.10	4.50		3.20	1.70	3.40
50 MHz	11.90	4.60	5.10	3.70	3.60	2.00	3.90
100 MHz	16.80	6.90	7.50	5.30	5.20	3.00	5.80
200 MHz	23.70	9.90	10.50		7.20	4.50	8.80
500 MHz	37.50	15.40	16.00		11.40	7.00	15.30
700 MHz	44.30	18.30	18.60		13.50	8.40	18.00
1 GHz	53.00	21.80	22.50		16.20	11.00	23.00
Shielded coverage	97%	95%	93%	93%	93%	93%	93%
Twist per ft.	8.0	4.0	4.0	4.0	6.0	6.0	