



# Standard Rigid Line *STD775 Series*

## 7 3/16 inch 75 Ohm Rigid Coaxial Line



### Specifications

Product Series	STD775
Size	7-3/16"
Impedance	75 ± 0.5-ohm
Maximum Channel	69
Velocity, %	99.8
Peak Power Rating, kW	1400
Net Weight, lb/ft (kg/m)	8.21
Outer Conductor Outside Diameter, in (mm)	7.15 (182)
Outer Conductor Inside Diameter, in (mm)	7.00 (178)
Inner Conductor Outside Diameter, in (mm)	2.00 (51)
Inner Conductor Inside Diameter, in (mm)	1.92 (49)
Flange, Overall Diameter, in (mm)	9.50 (241)
Bolt Circle Diameter	8.75 (222)
Number of Bolts	14
Bolt Size, in.	3/8

### Standard Rigid Line System Components

Type No.	Description
STD775-1	20.00 ft line section flanged both ends.**
STD775-2	19.75 ft line section flanged both ends.**
STD775-3	19.50 ft line section flanged both ends.**
STD775-6	19.00 ft line section flanged both ends.**
STD775-39	Field cut section, up to 20.00 ft.**

\*\* - Supplied with captivated inner connector and flange hardware kit.



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### Television Frequencies (US)

TV Channel	Frequency, MHz	Attenuation		Power	
		dB/100 ft	dB/100 m	Average, kW	Peak, kW
2	55.25	0.028	0.092	287.2	410.2
3	61.25	0.029	0.096	272.6	389.4
4	67.25	0.031	0.101	260.0	371.4
5	77.25	0.033	0.108	242.4	346.3
6	83.25	0.034	0.113	233.4	333.4
7	175.25	0.050	0.164	159.9	228.5
8	181.25	0.051	0.167	157.2	224.6
9	187.25	0.052	0.170	154.6	220.9
10	193.25	0.053	0.173	152.2	217.4
11	199.25	0.053	0.175	149.8	214.0
12	205.25	0.054	0.178	147.6	210.8
13	211.25	0.055	0.181	145.4	207.7
14	471.25	0.083	0.273	96.4	137.7
15	477.25	0.084	0.275	95.8	136.8
16	483.25	0.084	0.276	95.1	135.9
17	489.25	0.085	0.278	94.5	135.1
18	495.25	0.085	0.280	93.9	134.2
19	501.25	0.086	0.282	93.4	133.4
20	507.25	0.086	0.283	92.8	132.6
21	513.25	0.087	0.285	92.2	131.8
22	519.25	0.087	0.287	91.7	131.0
23	525.25	0.088	0.288	91.1	130.2
24	531.25	0.088	0.290	90.6	129.4
25	537.25	0.089	0.292	90.1	128.7
26	543.25	0.089	0.293	89.6	128.0
27	549.25	0.090	0.295	89.1	127.2
28	555.25	0.090	0.297	88.6	126.5
29	561.25	0.091	0.298	88.1	125.8
30	567.25	0.091	0.300	87.6	125.1
31	573.25	0.092	0.302	87.1	124.5
32	579.25	0.092	0.303	86.7	123.8
33	585.25	0.093	0.305	86.2	123.1
34	591.25	0.093	0.307	85.7	122.5
35	597.25	0.094	0.308	85.3	121.8

TV Channel	Frequency, MHz	Attenuation		Power	
		dB/100 ft	dB/100 m	Average, kW	Peak, kW
36	603.25	0.094	0.310	84.9	121.2
37	609.25	0.095	0.311	84.4	120.6
38	615.25	0.095	0.313	84.0	120.0
39	621.25	0.096	0.315	83.6	119.4
40	627.25	0.096	0.316	83.2	118.8
41	633.25	0.097	0.318	82.7	118.2
42	639.25	0.097	0.319	82.3	117.6
43	645.25	0.098	0.321	81.9	117.1
44	651.25	0.098	0.322	81.6	116.5
45	657.25	0.099	0.324	81.2	116.0
46	663.25	0.099	0.325	80.8	115.4
47	669.25	0.100	0.327	80.4	114.9
48	675.25	0.100	0.328	80.0	114.3
49	681.25	0.101	0.330	79.7	113.8
50	687.25	0.101	0.331	79.3	113.3
51	693.25	0.101	0.333	79.0	112.8
52	699.25	0.102	0.334	78.6	112.3
53	705.25	0.102	0.336	78.3	111.8
54	711.25	0.103	0.337	77.9	111.3
55	717.25	0.103	0.339	77.6	110.8
56	723.25	0.104	0.340	77.2	110.4
57	729.25	0.104	0.342	76.9	109.9
58	735.25	0.105	0.343	76.6	109.4
59	741.25	0.105	0.345	76.3	109.0
60	747.25	0.105	0.346	75.9	108.5
61	753.25	0.106	0.348	75.6	108.0
62	759.25	0.106	0.349	75.3	107.6
63	765.25	0.107	0.350	75.0	107.2
64	771.25	0.107	0.352	74.7	106.7
65	777.25	0.108	0.353	74.4	106.3
66	783.25	0.108	0.355	74.1	105.9
67	789.25	0.109	0.356	73.8	105.5
68	795.25	0.109	0.357	73.5	105.0
69	801.25	0.109	0.359	73.2	104.6



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### Television Frequencies (Europe)

TV Channel	Frequency, MHz	Attenuation		Power	
		dB/100 ft	dB/100 m	Average, kW	Peak, kW
2	48.25	0.026	0.085	307.5	439.3
2A	49.75	0.026	0.087	302.8	432.5
3	55.25	0.028	0.092	287.2	410.2
4	66.25	0.031	0.100	262.0	374.3
5	175.25	0.050	0.164	159.9	228.5
6	182.25	0.051	0.168	156.8	224.0
7	189.25	0.052	0.171	153.8	219.7
8	196.25	0.053	0.174	151.0	215.7
9	203.25	0.054	0.177	148.3	211.8
10	210.25	0.055	0.180	145.8	208.2
11	217.25	0.056	0.183	143.3	204.8
12	224.25	0.057	0.186	141.0	201.5
21E	471.25	0.083	0.273	96.4	137.7
22E	479.25	0.084	0.275	95.6	136.5
23E	487.25	0.085	0.277	94.7	135.3
24E	495.25	0.085	0.280	93.9	134.2
25E	503.25	0.086	0.282	93.2	133.1
26E	511.25	0.087	0.284	92.4	132.0
27E	519.25	0.087	0.287	91.7	131.0
28E	527.25	0.088	0.289	91.0	129.9
29E	535.25	0.089	0.291	90.3	128.9
30E	543.25	0.089	0.293	89.6	128.0
31E	551.25	0.090	0.296	88.9	127.0
32E	559.25	0.091	0.298	88.2	126.1
33E	567.25	0.091	0.300	87.6	125.1
34E	575.25	0.092	0.302	87.0	124.2
35E	583.25	0.093	0.304	86.3	123.3
36E	591.25	0.093	0.307	85.7	122.5
37E	599.25	0.094	0.309	85.1	121.6
38E	607.25	0.095	0.311	84.6	120.8
39E	615.25	0.095	0.313	84.0	120.0

TV Channel	Frequency, MHz	Attenuation		Power	
		dB/100 ft	dB/100 m	Average, kW	Peak, kW
40E	623.25	0.096	0.315	83.4	119.2
41E	631.25	0.097	0.317	82.9	118.4
42E	639.25	0.097	0.319	82.3	117.6
43E	647.25	0.098	0.321	81.8	116.9
44E	655.25	0.099	0.323	81.3	116.1
45E	663.25	0.099	0.325	80.8	115.4
46E	671.25	0.100	0.327	80.3	114.7
47E	679.25	0.100	0.329	79.8	114.0
48E	687.25	0.101	0.331	79.3	113.3
49E	695.25	0.102	0.333	78.8	112.6
50E	703.25	0.102	0.335	78.4	112.0
51E	711.25	0.103	0.337	77.9	111.3
52E	719.25	0.103	0.339	77.5	110.7
53E	727.25	0.104	0.341	77.0	110.0
54E	735.25	0.105	0.343	76.6	109.4
55E	743.25	0.105	0.345	76.2	108.8
56E	751.25	0.106	0.347	75.7	108.2
57E	759.25	0.106	0.349	75.3	107.6
58E	767.25	0.107	0.351	74.9	107.0
59E	775.25	0.108	0.353	74.5	106.4
60E	783.25	0.108	0.355	74.1	105.9
61E	791.25	0.109	0.357	73.7	105.3
62E	799.25	0.109	0.358	73.3	104.8
63E	807.25	0.110	0.360	73.0	104.2
64E	815.25	0.110	0.362	72.6	103.7
65E	823.25	0.111	0.364	72.2	103.2
66E	831.25	0.111	0.366	71.9	102.7
67E	839.25	0.112	0.368	71.5	102.1
68E	847.25	0.113	0.369	71.2	101.6
69E	855.25	0.113	0.371	70.8	101.2



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### FM Frequencies

Frequency, MHz	Attenuation		Average Power, kW
	dB/100 ft	dB/100 m	
87.90	0.035	0.116	227.0
88.10	0.035	0.116	226.8
88.30	0.035	0.116	226.5
88.50	0.035	0.116	226.3
88.70	0.035	0.116	226.0
88.90	0.035	0.116	225.7
89.10	0.036	0.117	225.5
89.30	0.036	0.117	225.2
89.50	0.036	0.117	225.0
89.70	0.036	0.117	224.7
89.90	0.036	0.117	224.5
90.10	0.036	0.117	224.2
90.30	0.036	0.117	224.0
90.50	0.036	0.117	223.7
90.70	0.036	0.118	223.5
90.90	0.036	0.118	223.2
91.10	0.036	0.118	223.0
91.30	0.036	0.118	222.7
91.50	0.036	0.118	222.5
91.70	0.036	0.118	222.2
91.90	0.036	0.118	222.0
92.10	0.036	0.119	221.7
92.30	0.036	0.119	221.5
92.50	0.036	0.119	221.2
92.70	0.036	0.119	221.0
92.90	0.036	0.119	220.8
93.10	0.036	0.119	220.5
93.30	0.036	0.119	220.3
93.50	0.036	0.119	220.0
93.70	0.036	0.120	219.8
93.90	0.036	0.120	219.6
94.10	0.037	0.120	219.3
94.30	0.037	0.120	219.1
94.50	0.037	0.120	218.9
94.70	0.037	0.120	218.6
94.90	0.037	0.120	218.4
95.10	0.037	0.120	218.2
95.30	0.037	0.121	217.9
95.50	0.037	0.121	217.7
95.70	0.037	0.121	217.5
95.90	0.037	0.121	217.2
96.10	0.037	0.121	217.0
96.30	0.037	0.121	216.8
96.50	0.037	0.121	216.6
96.70	0.037	0.122	216.3
96.90	0.037	0.122	216.1
97.10	0.037	0.122	215.9
97.30	0.037	0.122	215.6
97.50	0.037	0.122	215.4
97.70	0.037	0.122	215.2
97.90	0.037	0.122	215.0

Frequency, MHz	Attenuation		Average Power, kW
	dB/100 ft	dB/100 m	
98.1	0.037	0.122	214.8
98.3	0.037	0.123	214.5
98.5	0.037	0.123	214.3
98.7	0.037	0.123	214.1
98.9	0.037	0.123	213.9
99.1	0.037	0.123	213.7
99.3	0.038	0.123	213.4
99.5	0.038	0.123	213.2
99.7	0.038	0.123	213.0
99.9	0.038	0.124	212.8
100.1	0.038	0.124	212.6
100.3	0.038	0.124	212.4
100.5	0.038	0.124	212.1
100.7	0.038	0.124	211.9
100.9	0.038	0.124	211.7
101.1	0.038	0.124	211.5
101.3	0.038	0.124	211.3
101.5	0.038	0.125	211.1
101.7	0.038	0.125	210.9
101.9	0.038	0.125	210.7
102.1	0.038	0.125	210.4
102.3	0.038	0.125	210.2
102.5	0.038	0.125	210.0
102.7	0.038	0.125	209.8
102.9	0.038	0.125	209.6
103.1	0.038	0.126	209.4
103.3	0.038	0.126	209.2
103.5	0.038	0.126	209.0
103.7	0.038	0.126	208.8
103.9	0.038	0.126	208.6
104.1	0.038	0.126	208.4
104.3	0.038	0.126	208.2
104.5	0.039	0.126	208.0
104.7	0.039	0.127	207.8
104.9	0.039	0.127	207.6
105.1	0.039	0.127	207.4
105.3	0.039	0.127	207.2
105.5	0.039	0.127	207.0
105.7	0.039	0.127	206.8
105.9	0.039	0.127	206.6
106.1	0.039	0.127	206.4
106.3	0.039	0.127	206.2
106.5	0.039	0.128	206.0
106.7	0.039	0.128	205.8
106.9	0.039	0.128	205.6
107.1	0.039	0.128	205.4
107.3	0.039	0.128	205.2
107.5	0.039	0.128	205.0
107.7	0.039	0.128	204.8
107.9	0.039	0.128	204.6



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Electronics Research, Inc.  
7777 Gardner Road  
Chandler, Indiana 47610-9219  
USA

877 ERI-LINE (toll-free: North America)  
www.eriinc.com (web)  
+1 812 925-6000 (international)  
+1 812 925-4030 (fax)

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