

*Flexible Communications
Cable for Cellular and
Land Mobile Feeder
Interconnects and Jumpers*

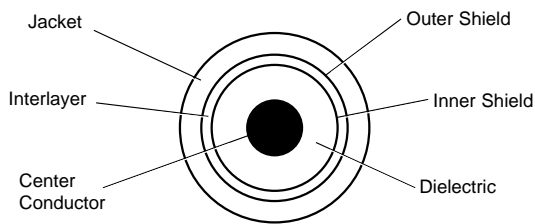


T-COM™ is the ultimate choice for jumpers and short antenna feeders in Paging, Land Mobile and Cellular radio systems. It is also ideally suited for microwave and satellite earth station antenna applications.

Features:

- Silver Plated Outer Conductor
-155 dBc Intermodulation Distortion
Lowest Attenuation
Best Long-term Stability
- Low Loss — Crush Resistant Foam Dielectric
- High Shielding Efficiency — Greater than 100 dB
- Phase Stable: ± 10 ppm per $^{\circ}\text{C}$
- Weather Resistant Polyethylene Jacket with Integral Vapor Seal
- Easy Termination — with inexpensive connectors
- Preterminated Assemblies Available

T-COM™ Specifications:



Construction

Center Conductor: Bare Copper*

Dielectric: Foam Polyethylene

Inner Shield: Silver Plated Copper Flat Ribbon Braid

Interlayer: Aluminum-Polyester Tape

Outer Shield: Tinned Copper Braid

Jacket: Black Weather Resistant Polyethylene with Integral Aluminum-Polyester Vapor Seal

Benefits

- The use of a silver plated outer conductor RF path minimizes the potential for intermodulation distortion.
- Comparably sized T-COM cables have greater flexibility than corrugated copper “superflexible” cables.

Connectors

Standard LMR® series connectors with a variety of interface types are available. For detailed information request the latest wireless catalog.

Jacket Options (special order)

- Low Smoke, Fire Retardant
- Flooded Burial
- TPE Ultra Flexible

For further information, pricing and delivery, please contact our Sales Department.

About TIMES MICROWAVE SYSTEMS

Times Microwave Systems, a division of Smiths Industries, Aerospace and Defense Systems, Inc., was founded in 1948 and was formerly known as Times Wire and Cable Company. Times Microwave Systems specializes in the design and manufacture of high performance flexible, semi-flexible and semi-rigid coaxial cable, connectors and cable assemblies. Times Microwave Systems with over 50 years of leadership in the defense microwave systems' arena offers high tech solutions to today's most challenging applications.

	T-COM 600	T-COM 500	T-COM 400	T-COM 300	T-COM 240	T-COM 200
Physical and Mechanical Specifications						
Dimensions, O.D.						
Conductor*	0.176"	0.142"	0.108"	0.070"	0.056"	0.044"
Dielectric	0.455"	0.370"	0.285"	0.190"	0.150"	0.116"
Shield	0.500"	0.415"	0.330"	0.235"	0.188"	0.154"
Jacket	0.590"	0.500"	0.405"	0.300"	0.240"	0.195"
Bend Radius**	1.50"	1.25"	1.00"	0.875"	0.75"	0.50"
Crush Strength (lbs/in)	60	50	40	30	20	15
Tensile Strength (lbs)	350	260	160	120	80	40
Weight (lbs/ft)	0.16	0.12	0.08	0.06	0.05	0.04
Temperature Range	-40°C to +85°C					
Electrical Specifications						
Impedance	50 ohms					
Velocity %	87	86	85	85	84	83
Capacitance pf per foot	23.4	23.6	23.9	24.1	24.2	24.5
Shielding	>100 dB					
Phase Stability	± 10 ppm/°C					
Cutoff Frequency	10 GHz	12 GHz	16 GHz	24 GHz	31 GHz	39 GHz
Attenuation (dB per 100 Feet, +25°C)						
Frequency/Size	0.590"	0.500"	0.405"	0.300"	0.240"	0.195"
30 MHz	0.5	0.6	0.7	1.1	1.3	1.8
50 MHz	0.6	0.7	0.9	1.4	1.7	2.3
150 MHz	1.0	1.2	1.5	2.4	3.0	4.0
450 MHz	1.7	2.1	2.7	4.2	5.3	7.0
900 MHz	2.5	3.0	3.9	6.1	7.6	9.9
2,000 MHz	3.9	4.8	6.0	9.2	11.5	15.0
5,000 MHz	6.8	8.1	10.0	15.0	19.0	24.0
10,000 MHz	10.1	12.2	15.0	23.0	28.0	34.0
Attenuation at Frequency	A = K1 √FMHz + K2 FMHz					
K1	.07555	.09659	.12229	.19193	.24208	.32090
K2	.00026	.00026	.00026	.00033	.00033	.00033
Power Handling (kW, +40°C, Sea Level)						
Frequency/Size	0.590"	0.500"	0.405"	0.300"	0.240"	0.195"
30 MHz	5.5	4.4	3.3	2.1	1.5	1.0
50 MHz	4.3	3.4	2.6	1.6	1.2	0.79
150 MHz	2.4	1.9	1.5	0.93	0.66	0.45
450 MHz	1.3	1.1	0.83	0.52	0.38	0.26
900 MHz	0.93	0.75	0.58	0.36	0.26	0.18
2,000 MHz	0.59	0.49	0.37	0.24	0.17	0.12
5,000 MHz	0.35	0.29	0.22	0.15	0.10	0.07
10,000 MHz	0.23	0.19	0.15	0.10	0.07	0.05

* T-COM 600, T-COM 500 & T-COM 400: Bare Copper Clad Aluminum

T-COM 300, T-COM 240 & T-COM 200: Bare Copper

** Maximum 1 ohm impedance change.



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