

T-RAD™-600

50 Ohm Leaky Feeder Coaxial Cable

- Provides RF coverage in buildings, mines and other enclosed areas
- Offers broadband performance up to 2.5 GHz
- Flexible, non-kinking design provides easier installation
- Accepts standard "EZ" crimp connectors used for LMR-600 cable*
- FR series is MSHA approved for mining applications

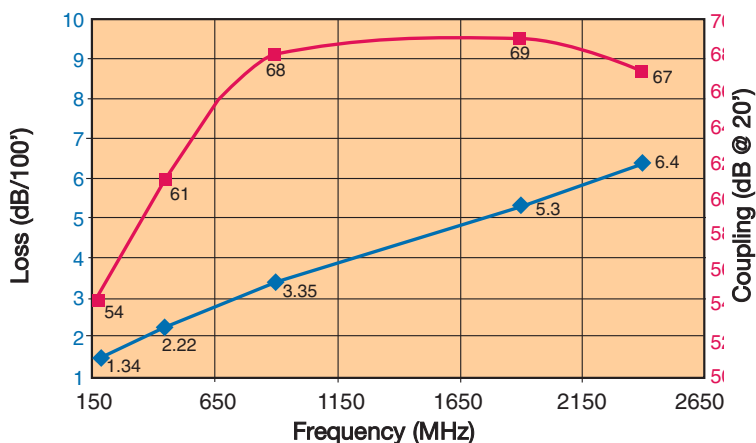


Part Description				
Part Number	Application	Jacket	Color	Stock Code
AA-9096	T-RAD-600-PVC	PVC	Black	44030
AA-9097	T-RAD-600-FR	FRPE	Black	44031
AA-9299	T-RAD-600-DB	PVC/PE	Black	44038

Physical & Mechanical Specifications		
	in	(mm)
Inner Conductor: Solid BCCA1	0.176	(4.47)
Dielectric: Gas-Injected Foam Polyethylene	0.455	(11.56)
Inner Shield: Bonded Aluminum Tape	0.458	(11.63)
Jacket: Extruded PVC or FR	0.530	(13.46)
DB Version PVC/PE	0.590	(14.98)
Bend Radius: Installation	1.5	(38)
Bend Radius: Repeated	6.0	(152.4)
Weight: Extruded PVC or FR	0.09 lbs./ft	(0.137 kg/m)
DB Version PVC/PE	0.14 lbs./ft	(0.213 kg/m)
Operating Temperature Range	-40°/+185°F	-40°/+85°C

Electrical Specifications				
Velocity of Propagation	86%			
Dielectric Constant	1.35			
Time Delay	1.18 nS/ft (3.87 nS/m)			
Impedance	50 ohms			
Voltage Withstand	4000 Volts DC			
Jacket Spark	6000 Volts RMS			
Attenuation (MHz)	dB/100 ft	dB/100 m	Coupling Loss*	
150	1.34	4.39	54	
450	2.22	7.28	61	
900	3.35	10.98	68	
1900	5.30	17.38	69	
2400	6.40	20.99	67	

T-RAD™-600 Loss & Coupling vs Frequency



T-RAD™-600 Comparison

T-RAD-600 -vs- Corrugated Copper			
	3/8" CC	T-RAD-600	1/2" CC
Overall Diameter (in)	0.460"	0.520"	0.650"
Insertion Loss/Coupling Loss			
150 MHz	1.5/56	1.3/54	1.0/58
450 MHz	2.6/61	2.2/61	2.0/63
900 MHz	3.7/68	3.4/69	2.9/68
1700 MHz	5.3/74	5.3/72	4.0/73
2400 MHz	7.0/73	6.4/67	5.0/73



Connectors											
Interface	Description	Part Number	Stock Code	VSWR* Freq. (GHZ)	Coupling Nut	Inner Contact Attachment	Outer Contact Attachment	Finish* Body/Pin	Length in (mm)	Width in (mm)	Weight lb (g)
N Male	Straight Plug	EZ-600-NMH-X	3190-2627	<1.25:1 (2.5)	Hex/Knurl	Spring Finger	Crimp	SG	2.1 (53)	0.92 (23.4)	1.164 (74.4)
N Male	Right Angle	EZ-600-NMH-RA-X	3190-2639	<1.25:1 (6)	Hex	Spring Finger	Crimp	SG	2.1 (53)	0.92 (23.4)	0.185 (83.9)
N Female	Straight Jack	EZ-600-NF	3190-2817	<1.25:1 (2.5)	NA	Spring Finger	Crimp	SG	2.3 (59)	0.87 (22.1)	0.150 (68.0)
N Female	Bulkhead Jack	EZ-600-NF-BH	3190-616	<1.25:1 (2.5)	NA	Spring Finger	Crimp	SG	2.4 (61)	0.88 (22.4)	0.195 (88.5)
TNC Male	Straight Plug	EZ-600-TM-X	3190-2531	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	SG	1.7 (43)	0.59 (15.0)	0.112 (50.8)
TNC Male	Reverse Polarity	EZ-600-TM-RP	3190-796	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	AG	2.2 (56)	0.87 (22.0)	0.112 (50.8)
TNC Female	Reverse Polarity	EZ-600-TF-RP	3190-797	<1.25:1 (2.5)	NA	Spring Finger	Crimp	AG	2.3 (58)	0.87 (22.0)	0.100 (45.4)
UHF Male	Straight Plug	EZ-600-UM	3190-615	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	SG	1.7 (43)	0.88 (22.4)	0.164 (74.4)
7-16 DIN Male	Straight Plug	EZ-600-716M-X	3190-2643	<1.25:1 (2.5)	Hex	Spring Finger	Crimp	SS	2.0 (51)	1.30 (33.0)	0.254 (115.2)