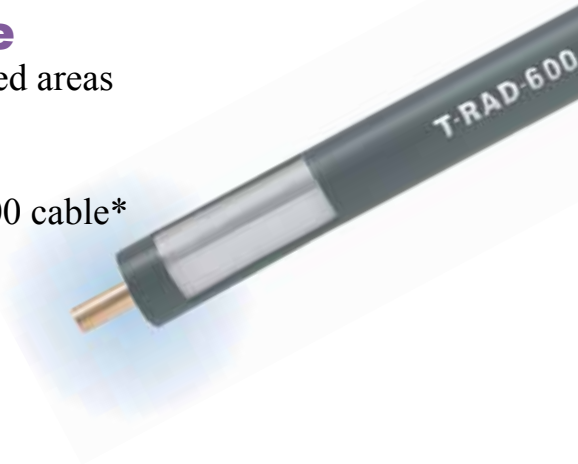


**Engineered Products:**

## 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



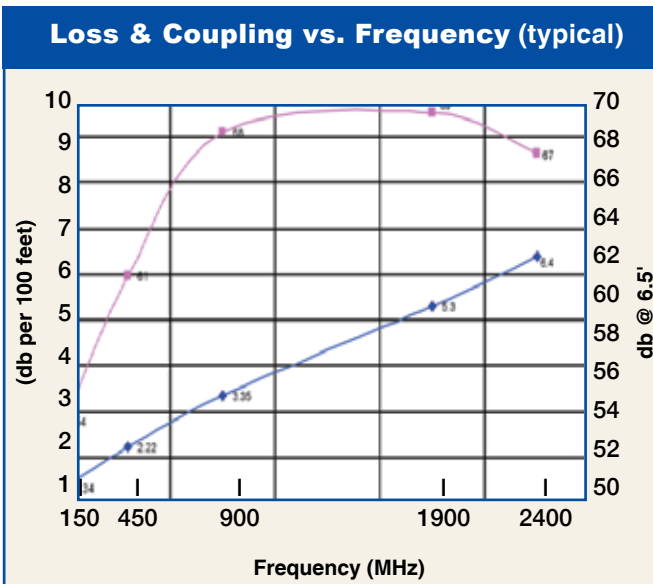
Part Number	Part Description	Stock Code
AA 9096	T-RAD-600-PVC PVC Black	44030
AA-9097	T-RAD-600-FR FRPE Black	44031

Construction Specifications			
Description	Material	In.	(mm)
Inner Conductor	Solid BCCAI	0.176	(4.47)
Dielectric	Gas-Injected Foam Polyethylene	0.455	(11.56)
Inner Shield	Bonded Aluminum Tape	0.458	(11.63)
Jacket	See table above	0.530	(13.46)

Mechanical Specifications			
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.5	(38)
Bend Radius: repeated	in. (mm)	6.0	(152.4)
Weight	lb/ft (kg/m)	0.09	(0.137)

Environmental Specifications		
Performance Property	°F	°C
Operating Temperature Range	-40/+185	-40/+85

Electrical Specifications			
Performance Property	Units	US	(metric)
Velocity of Propagation	%	86	
Dielectric Constant	NA	1.35	
Time Delay	nS/ft (nS/m)	1.18	(3.87)
Impedance	ohms	50	
Voltage Withstand	Volts DC	4000	
Jacket Spark	Volts RMS	6000	



Frequency (MHz)	150	450	900	1900	2400
Attenuation dB/100 ft	1.34	2.22	3.35	5.30	6.40
Attenuation dB/100 m	4.39	7.28	10.98	17.38	20.99
Coupling Loss** dB	54	61	68	69	67

\* Request T-RAD-600 connector data sheet and attachment instructions  
 \*\* Coupling loss measured at 6.5 feet (2 meters) \*\*\* Patent applied for



## Connectors

Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach	Outer Contact Attach***	Finish* /Pin	Length in (mm)	Width in (mm)	lb	Weight (g)
7-16 DIN Male	Straight Plug	EZ-600-716-MH	3190-503	<1.25:1 (2.5)	Hex	Spring Finger	Crimp	S/S	2.0 (51)	1.30 (33.0)	0.254 (115.2)	
N Male	Straight Plug	EZ-600-NMH-D	3190-1268	<1.25:1 (2.5)	Hex/Knurl	Spring Finger	Crimp	A/G	2.1 (53)	0.92 (23.4)	1.164 (74.4)	
	Right Angle	EZ-600-NMH-RA	3190-762	<1.35:1 (6)	Hex	Spring Finger	Crimp	S/G	2.1 (53)	0.92 (23.4)	0.185 (83.9)	
N Female	Straight Jack	EZ-600-NF	3190-955	<1.25:1 (2.5)	NA	Spring Finger	Crimp	S/G	2.3 (59)	0.87 (22.1)	0.150 (68.0)	
	Bulkhead Jack	EZ-600-NF-BH	3190-616	<1.25:1 (2.5)	NA	Spring Finger	Crimp	S/G	2.4 (61)	0.88 (22.4)	0.195 (88.5)	
TNC Male	Straight Plug	EZ-600-TM	3190-418	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	S/G	1.7 (43)	0.59 (15.0)	0.112 (50.8)	
	Reverse Polarity	EZ-600-TM-RP	3190-796	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	A/G	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	A/G	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	S/G	1.7 (43)	0.88 (22.4)	0.164 (74.4)	

\* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alloy \*\*VSWR spec based on 3 foot cable with a connector pair

\*\*\* Requires separate crimp ring; contact TMS engineering