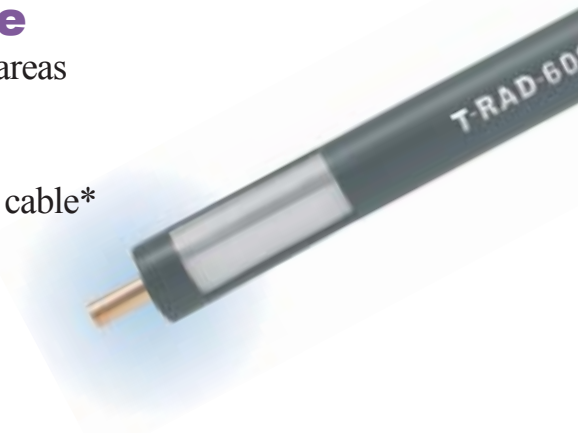


TIMES MICROWAVE SYSTEMS

A Smiths Group plc company

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*



Part Description				
Part No.	Application	Jacket	Color	Stock Code
AA 9096	T-RAD-600-PVC	PVC	Black	44030
AA-9097	T-RAD-600-FR	FRPE	Black	44031

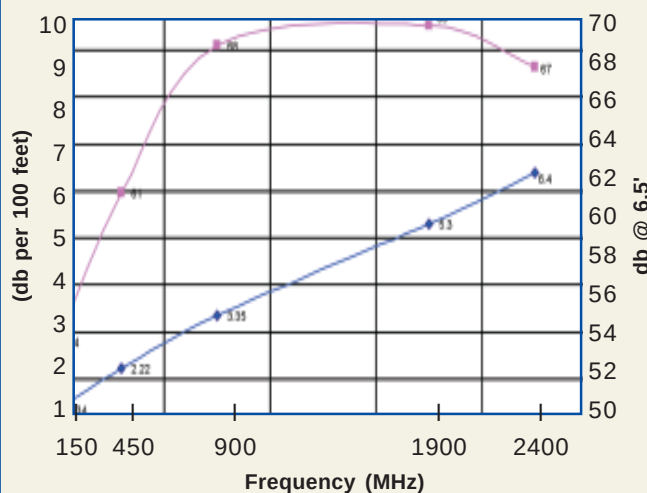
Construction Specifications				
Description	Material	In.	(mm)	
Inner Conductor	Solid BCCAI	0.176	(4.47)	
Dielectric	Gas-Injected Foam Polyethylene	0.455	(11.56)	
Inner Shield	Bonded Aluminum Tape	0.458	(11.63)	
Jacket	See table above	0.530	(13.46)	

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	

Loss & Coupling vs. Frequency (typical)



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* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
7-16DINMale	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)
NMale	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)
NFemale	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)
TNCMale	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)
TNCFemale	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)
UHFMale	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