

Engineered Products:

FBT™-240

Flexible Low Loss High Power Communications Coax

Ideal for...

- High Power Base Station Jumper Assemblies
- In-Building Plenum Feeder Runs
- Any High Power Low Loss RF cable application

	Part Description			Stock
Part Number	Application	Jacket	Color	Code
FBT-240	Indoor/Outdoor	FEP	Brown	54167

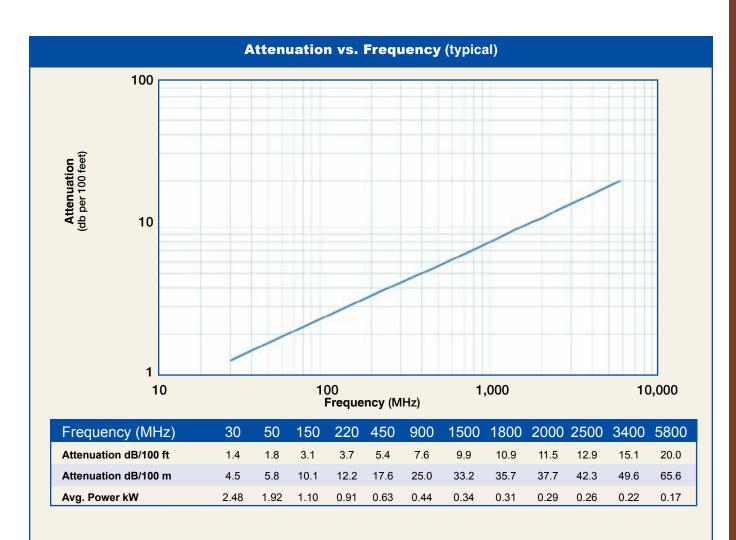
Environmental Specifications						
Performance Property	°F	°C				
Installation Temperature Range	-67/+302	-55/+150				
Storage Temperature Range	-67/+302	-55/+150				
Operating Temperature Range	-67/+302	-55/+150				

Construction Specifications								
Description	Material	In.	(mm)					
Inner Conductor	Solid BC	0.051	(1.30)					
Dielectric	Low Density PTFE	0.150	(3.81)					
Outer Conductor	Aluminum Tape	0.155	(3.94)					
Overall Braid	Tinned Copper	0.178	(4.52)					
Jacket	Brown FEP	0.205	(5.21)					

Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	1.0	(25.4)				
Bend Radius: repeated	in. (mm)	2	(50.8)				
Bending Moment	ft-lb (N-m)	0.25	(0.34)				
Weight	lb/ft (kg/m)	0.040	(0.06)				
Tensile Strength	lb (kg)	60	(27.2)				
Flat Plate Crush	lb/in. (kg/mm)	85	(1.52)				

Electrical Specifications							
Performance Property	Units	US	(metric)				
Velocity of Propagation	%	76					
Dielectric Constant	NA	1.73					
Time Delay	nS/ft (nS/m)	1.34	(4.40)				
Impedance	ohms	50					
Capacitance	pF/ft (pF/m)	26.7	(87.6)				
Inductance	uH/ft (uH/m)	0.067	(0.22)				
Shielding Effectiveness	dB	>90					
DC Resistance							
Inner Conductor	ohms/1000ft (/km)	4.00	(13.1)				
Outer Conductor	ohms/1000ft (/km)	3.90	(12.8)				
Voltage Withstand	Volts DC	1500					
Jacket Spark	Volts RMS	5000					
Peak Power	kW	5.6					





Calculate Attenuation =

(0.248515) • √FMHz + (0.000183) • FMHz (interactive calculator available at http://www.timesmicrowave.com/cable_calculators) Attenuation:

VSWR=1.0 ; Ambient = +25°C (77°F)

Power:

VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading



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Connectors		Part	Stock	VSWR** (Coupling	Inner	Outer		l e	ngth	Wi	dth	We	eight
Interface	Description	Number	Code	Freq. (GHz)	Nut	Attach	Attach	/Pin	in	(mm)	in	(mm)	lb	(g)
1.BNCMale	Straight Plug	TC-240-BMC	3190-242	<1.25:1 (2.5)	Knurl	Solder	Clamp	S/G	1.7	(43)	0.56	(14.2)	0.040	(18.1)
2. Mini-UHF	Straight Plug	TC-240-MUHF	3190-445	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.45	(11.4)	0.014	(6.4)
3.NFemale	Bulkhead Jack	TC-240-NF-BH	3190-419	<1.25 (2.5)	NA	Solder	Crimp	A/G	1.7	(44)	0.88	(22.2)	0.115	(52.2)
4. N Male	Straight Plug	TC-240-NMH	3190-382	<1.25:1 (2.5)	Hex	Solder	Crimp	N/S	1.5	(38)	0.75	(19.1)	0.086	(39.0)
5. N Male	Straight Plug	TC-240-NMC	3190-244	<1.25:1 (2.5)	Knurl	Solder	Clamp	S/G	1.5	(38)	0.75	(19.1)	0.082	(37.2)
6. SMAFemale	Bulkhead Jack	TC-240-SF-BH	3190-824	<1.25:1 (2.5)	NA	Solder	Crimp	SS/G	1.1	(29)	0.31	(7.9)	0.019	(8.6)
7. SMAMale	Straight Plug	TC-240-SM-SS-X	3190-2898	<1.25:1 (10)	Hex	Solder	Crimp	SS/G	1.0	(25)	0.32	(8.1)	0.016	(7.3)
8. SMAMale	RightAngle	TC-240-SM-RA	3190-381	<1.35:1 (6)	Hex	Solder	Crimp	SS/G	8.0	(20)	0.65	(16.5)	0.019	(8.6)
9. SMAMale	Reverse Polarity	TC-240-SM-RP	3190-326	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0	(25)	0.32	(8.1)	0.016	(7.3)
10.TNC Male	Straight Plug	TC-240-TM	3190-275	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.59	(15.0)	0.043	(19.5)
11. TNC Male	RightAngle	TC-240-TM-RA	3190-604	<1.35:1 (2.5)	Knurl	Solder	Crimp	N/G	1.3	(33)	0.57	(14.5)	0.055	(24.9)
12. Type F Male	Straight Plug	TC-240-FM-X	3190-2891	<.25:1 (2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.45	(11.4)	0.014	(6.4)



Hardware Accessories

Туре	Part Number	Stock Code	Description	
Ground Kit	GK-S240TT	GK-S240TT	Standard Ground Kit (each)	



Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Cutting Tool	CCT-02	3192-165	Cable and flush cut tool
Replacement Blade	RB-02	3192-166	Replacement blade for cutting tool