

True connect 1/2" Plenum Cable



MODEL # 12/RP

FEATURES

- In-Building Systems (DAS)
- Cabling for VHF, UHF, 700, 850, PCS, & AWS Bands
- RF Cable Jumper Assemblies where low PIM is required



Construction Materials and Dimensions		
Inner Conductor	Material	Copper Clad Aluminum Wire
	Diameter, in.	0.189
Dielectric	Material	PE Spline
	Diameter, in.	0.465
Outer Conductor	Material	Ring Corrugated Copper
	Diameter, in.	0.543
Jacket	Material	PVC, Plenum Rated
	Diameter, in.	0.629

Electrical Specifications	
Inner conductor DC resistance, Ω /kft	0.486
Outer conductor DC resistance, Ω /kft	0.689
Impedance, Ω	50 \pm 2
Inductance, μ H/ft	0.058
Capacitance, pF/ft	23
Propagation velocity, %	88
DC breakdown voltage, kV	6.0
Insulation resistance, M Ω /km	>5X10 ³
Peak Power, kW	40
Screening attenuation, dB	>>120
Cut-off frequency, GHz	8.80

Mechanical Specifications		
Bending radius, in.	Single	2.76
	Repeated	4.92
Tensile strength, lbs.		254
Crush resistance, lb/in.		80
Bending moment, ft lb.		11.4
Storage Temperature, °F		-94 \approx +185
Installation Temperature, °F		-40 \approx +140
Operating Temperature, °F		-67 \approx +185

Attenuation			
Frequency	dB/100 ft	dB/100 m	
10	0.21	0.67	
100	0.67	2.19	
200	0.96	3.15	
450	1.48	4.85	
800	2.03	6.65	
900	2.15	7.07	
1000	2.30	7.53	
1500	2.88	9.46	
1800	3.20	10.50	
2000	3.40	11.16	
2300	3.69	12.11	
3000	4.36	14.16	
6000	6.58	21.58	

VSWR	
806-960 MHz	\leq 1.15
1700-2400 MHz	\leq 1.15
5-3000 MHz	\leq 1.25