True Connect 1/2" Plenum Cable

WIRELESS SUPPLY
HIGHER STANDARDS. SUPERIOR QUALITY.

MODEL # 12A/RP



FEATURES

- In-Building Systems (DAS)
- Public Safety Systems
- Cabling for VHF, UHF, 700, 850, PCS, AWS, CBRS C Band, 4G and 5G systems
- RF Cable Jumper Assemblies where low PIM is required

Construction Materials and Dimensions		
Inner Conductor	Material	Copper Clad Aluminum Wire
	Diameter, in.	0.190
Dielectric	Material	Extruded Polyethylene
	Diameter, in.	0.464
Outer Conductor	Material	Ring Corrugated Aluminum
	Diameter, in.	0.540
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 ±2
Inductance, μH/ft	0.058
Capacitance, ρF/ft	0.2286
Propogation velocity, %	88
DC breakdown voltage, kV	6.0
Insulation resistance, MΩ/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.		5.0
Storage Temperature, °F		-4≈+185
Installation Temperature, °F		-23≈+140
Operating Temperature, °F		-4≈+185

Attenuation		
Frequency	dB/100 ft	dB/100 m
10	0.21	0.69
100	0.69	2.27
200	1.00	3.29
450	1.57	5.13
750	2.08	6.82
850	2.25	7.36
900	2.23	7.60
1000	2.46	8.08
1500	3.13	10.26
1700	3.37	11.05
1800	3.49	11.44
2000	3.72	12.19
2200	3.94	12.92
2300	4.05	13.28
2700	4.47	14.66
3000	4.77	15.65
3400	5.16	16.93
3700	5.44	17.86
4000	5.72	18.77
4200	5.90	19.36
5000	6.61	21.67
6000	7.44	4.48

VSWR	
806-960 MHz	≤1.25
1700-2400 MHz	≤1.25
5-3000 MHz	≤1.25

Fire Retardant Properties

ETL Listed to UL 444, Canadian CSA C.22.2/FT6 CATV/CMP, NFPA-262

RoHS 2002/95/EC

5G

LTE ADVANCED

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