



# TrueConnect™ - 1/2" Plenum Cable

Higher Standards. Superior Quality.

Model No. 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, $\Omega$ /kft	0.486
Outer conductor DC resistance, $\Omega$ /kft	0.689
Impedance, $\Omega$	50 $\pm$ 2
Inductance, $\mu$ H/ft	0.058
Capacitance, pF/ft	23
Propogations velocity, %	88
DC breakdwn voltage, kV	6.0
Insulation resistance, $M\Omega$ km	$>5 \times 10^3$
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		-4 $\approx$ 185
Installation Temperature, °F		-40 $\approx$ +140
Operating Temperature, °F		-67 $\approx$ +185



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## 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	≤1.15
1700-2400 MHz	≤1.15
5-3000 MHz	≤1.25

## Fire Retardant Properties

Meets UL 444, CATV/CMP, NFPA-262

## Available Connectors

Connector Type	Connector Part Number
NM	12P-NM
NF	12P-NF
7/16 DIN M	12P-DM
7/16 DIN F	12P-DF
4.1/9.5 Male	12P-41M
4.1/9.5 Female	12P-41F
4.3/10 Male	12P-43M
4.3/10 Female	12P-43F

