



Higher Standards. Superior Quality.

TrueConnect_m - 1/2" Low Loss Foam Cable

Model No. 12



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	Physically foamed PE
	Diameter, in.	0.480
Outer Conductor	Material	Helical Corrugated Copper
	Diameter, in.	0.543
Jacket	Material	PE
	Diameter, in.	0.622

Electrical Specifications

Inner conductor DC resistance, Ω /kft	0.450
Outer conductor DC resistance, Ω /kft	0.820
Impedance, Ω	50 \pm 2
Inductance, μ H/ft	0.19
Capacitance, pF/ft	23.1
Propogations velocity, %	88
DC breakdown voltage, kV	4.0
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	2.00
	Repeated	5.00
Tensile strength, lbs.		250
Crush resistance, lb/in.		110
Bending moment, ft lb.		2.8
Storage Temperature, $^{\circ}$ F		-94 \approx +185
Installation Temperature, $^{\circ}$ F		-40 \approx +140
Operating Temperature, $^{\circ}$ F		-67 \approx +185



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Attenuation

Frequency	dB/100 ft	dB/100 m
10	0.20	0.67
100	0.66	2.17
200	0.95	3.10
450	1.45	4.75
800	1.97	6.46
900	2.09	6.85
1000	2.22	7.28
1500	2.77	9.09
1800	3.08	10.10
2000	3.26	10.70
2300	3.52	11.54
3000	4.08	13.40
6000	6.11	20.05



VSWR

806-960 MHz	≤1.15
1700-2400 MHz	≤1.15
5-3000 MHz	≤1.25

Available Connectors

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

