



TrueConnect™ - 1/2" Superflexible Cable

Model No. 12/SF

Higher Standards. Superior Quality.



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.	0.140
Dielectric	Material	Physically foamed PE
	Diameter, in.	0.362
Outer Conductor	Material	Helical Corrugated Copper
	Diameter, in.	0.472
Jacket	Material	PE
	Diameter, in.	0.535

Electrical Specifications

Inner conductor DC resistance, Ω /kft	0.820
Outer conductor DC resistance, Ω /kft	1.560
Impedance, Ω	50 \pm 2
Inductance, μ H/ft	0.063
Capacitance, pF/ft	25.2
Propogations velocity, %	81
DC breakdown voltage, kV	2.5
Insulation resistance, $M\Omega$ km	>5X10 ³
Peak Power, kW	15.6
Screening attenuation, dB	>>120
Cut-off frequency, GHz	10.20

Mechanical Specifications

Bending radius, in.	Single	1.25
	Repeated	1.25
Tensile strength, lbs.		175
Crush resistance, lb/in.		110
Bending moment, ft lb.		2.0
Storage Temperature, °F		-94 \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	0.32	1.04
100	1.04	3.41
200	1.50	4.91
450	2.31	7.59
800	3.17	10.40
900	3.41	11.20
1000	3.60	11.80
1500	4.54	14.91
1800	5.06	16.60
2000	5.36	17.60
2300	5.83	19.14
3000	6.83	22.40
6000	10.49	34.43



VSWR

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

Available Connectors

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

