

# Trueconnect 1/2" SUPERFLEXIBLE CABLE



**MODEL # 12/SF**



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



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