

Trueconnect 1/4" SUPERFLEXIBLE CABLE



MODEL # 14/SF



Construction Materials and Dimensions		
Inner Conductor	Material	Copper Clad Aluminum Wire
	Diameter, in.	0.075
Dielectric	Material	Physically foamed PE
	Diameter, in.	0.185
Outer Conductor	Material	Helical Corrugated Copper
	Diameter, in.	0.250
Jacket	Material	PE
	Diameter, in.	0.290

Electrical Specifications	
Inner conductor DC resistance, Ω /kft	3.0
Outer conductor DC resistance, Ω /kft	2.0
Impedance, Ω	50 \pm 2
Inductance, μ H/ft	0.2
Capacitance, pF/ft	24.2
Propogations velocity, %	84
DC breakdown voltage, kV	1.6
Insulation resistance, $M\Omega$ km	$>5 \times 10^3$
Peak Power, kW	6.4
Screening attenuation, dB	$\gg 120$
Cut-off frequewncy, GHz	20.40

Mechanical Specifications		
Bending radius, in.	Single	0.78
	Repeated	1.00
Tensile strength, lbs.		150
Crush resistance, lb/in.		100
Bending moment, ft lb.		0.8
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	0.56	1.83
100	1.80	5.89
200	2.56	8.40
450	3.90	12.80
800	5.30	17.40
900	5.61	18.40
1000	5.97	19.60
1500	7.09	23.26
1800	8.20	26.90
2000	8.69	28.50
2300	9.36	30.72
3000	10.85	35.60
6000	16.08	52.75



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

Available Connectors	
Connector Type	Connector Part Number
NM	14S-NM
NF	14S-NF
7/16 DIN M	14S-DM
7/16 DIN F	14S-DF
4.1/9.5 Male	14S-41M
4.1/9.5 Female	14S-41F
4.3/10 Male	14S-43M
4.3/10 Female	14S-43F



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