

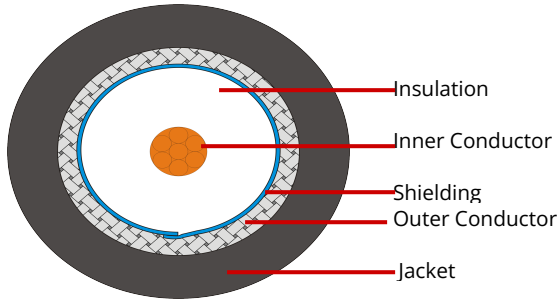
<<<< For Reference Only >>>>



**RFS195-UF**

**50Ω Ultra Flexible Low Loss Communication Cable**

**Cross Section**



**Electrical Characteristics**

<b>Characteristic Impedance</b>	50	+/- 2 ohm
<b>Capacitance</b>	80.3	pF/m
<b>Velocity ratio</b>	83	%
<b>DCR: Inner Conductor</b>	<33	ohm/km
<b>DCR: Outer Conductor</b>	< 16	ohm/km
<b>Voltage withstand</b>	1000V	RMS
<b>Jacket Spark</b>	3000V	RMS
<b>Insulation resistance</b>	> 10,000	MΩ-km
<b>Peak Power</b>	2.5	KW
<b>Shielding Effectiveness</b>	>90	dB
<b>VSWR</b>	DC-1.0GHz	<1.15
	1.0-2.5GHz	<1.20
	2.5-6.0GHz	<1.25

**Cable Description**

<b>Inner Conductor</b>	Stranded BC
Conductor Dia.	<b>0.96</b> +/-0.03mm
Min.Break Strength	259 N
<b>Insulation</b>	Foam P.E.
Insulation Dia.	<b>2.79</b> +/-0.15mm
Color	Neutral
Adhesion	10 to 100N @ 25mm
<b>Shielding</b>	AL/P-Foil (Bonded)
Foil overlap	≥ 120%
<b>Outer Conductor</b>	TC Wire Braid
Coverage	<b>95</b> +/-3%
<b>Jacket</b>	TPE
Outer Dia	<b>4.95</b> +/-0.15mm
Color	Black
Adhesion	66 to 333N @ 50mm

**Attenuation (at 20 °C)**

[GHz]	[Power kw]	[dB/100ft]
0.03	0.78	2.30
0.05	0.61	3.00
0.15	0.35	5.30
0.22	0.28	6.40
0.45	0.20	9.30
0.90	0.14	13.20
1.50	0.10	17.30
1.80	0.09	19.00
2.00	0.09	20.10
2.50	0.08	22.60
5.80	0.05	35.60

Maximum attenuation is 10% higher.

**Mechanical Characteristics**

<b>Min.Bending Radius:</b>	
Installation	12.7mm
Repeated	50.8mm
<b>Max.Pulling Tension</b>	378
<b>Rated Temperature</b>	
Installation/operating temperature	-30~+75 °C
Storage temperature	-30~+75 °C

**RoHS 3.0 Guideline**

<b>Cadmium content (Cd)</b>	< 0.01%	(100ppm)
<b>Lead content (Pb)</b>	<0.1%	(1000ppm)
<b>Mercury content (Hg)</b>	<0.1%	(1000ppm)
<b>Chromium (VI) content</b>	<0.1%	(1000ppm)
<b>Polybrominated Biphenyls (PBB)</b>	<0.1%	(1000ppm)
<b>Polybrominated Diphenyl Ether (PBDE)</b>	<0.1%	(1000ppm)
<b>Diethyl hexyl phthalate (DEHP)</b>	<0.1%	(1000ppm)
<b>Butyl phenyl phthalate (BBP)</b>	<0.1%	(1000ppm)
<b>Dibutyl phthalate (DBP)</b>	<0.1%	(1000ppm)
<b>Diisobutyl phthalate (DIBP)</b>	<0.0%	(999ppm)

Note: The specifications are subjected to change without prior notice

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**COAXIAL CABLE**

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