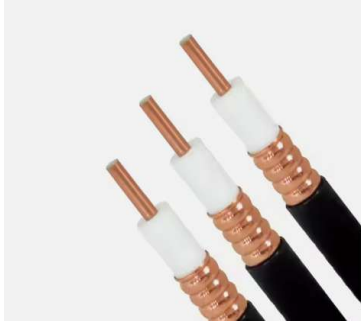




**LDF4-50A. Flexible RF Communications Cable**

**Cross Section**



**Cable Description**

<b>Inner Conductor</b>	BC Tube
Conductor Dia.	<b>4.80</b> +/-0.05mm
<b>Insulation</b>	Foam PE
Insulation Dia.	<b>12.30</b> +/-0.30mm
Color	Neutral
Centricity	≥ 90%
<b>Shielding</b>	Corrugated CU Tube
Dia.	<b>13.80mm</b> (+/- 0.50mm)
<b>Jacket</b>	<b>LSZH</b> (Fire-resistance)
Outer Dia	<b>15.70</b> +/-0.50mm
Color	Black

**Electrical Characteristics**

<b>Characteristic Impedance</b>	50 ± 2 ohm
<b>Capacitance</b>	76 pF/m
<b>Velocity ratio</b>	86 %
<b>RF Peak Voltage</b>	1.16 kV
<b>Cut-off Frequency</b>	8.8 GHz
<b>Insulation resistance</b>	5000 MΩ·km
<b>Peak Power</b>	40 kW
<b>Shielding Effectiveness</b>	> 120 dB
<b>VSWR</b>	0.8-2.2 GHz <1.13
	2.2-2.7 GHz <1.15
	3.3-3.8 GHz <1.20

<b>Attenuation</b> (at 20 °C)	[MHz]	[dB/100m]	(kW)
	100	0.66	3.94
	150	0.81	3.17
	200	0.94	2.75
	280	1.12	2.27
	450	1.44	1.80
	800	1.97	1.33
	900	2.09	1.25
	1000	2.22	1.18
	1500	2.77	0.95
	1800	3.06	0.86
	2000	3.25	0.81
	2200	3.43	0.77
	2400	3.60	0.75
	2500	3.68	0.73
	2600	3.76	0.71
	2700	3.84	0.69
	3000	4.08	0.65
	3300	4.32	0.61
	3400	4.39	0.60
	3500	4.47	0.58
	3600	4.54	0.57
	3800	4.68	0.55

*Maximum attenuation is 10% higher.*

**Mechanical Characteristics**

<b>Min.Bending Radius:</b>	
Installation	80 mm
Repeated	125 mm
<b>Tensile Strength</b>	1100N
<b>Rated Temperature</b>	
Installation/operating temperature	-20~+60 °C
Storage temperature	-40~+70 °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>	<0.1% (1000ppm)

**Note: The specifications are subjected to change without prior notice**