

PRODUCT SPECIFICATIONS

LF12-50-1**TeleDelta 1/2 Inch Leaky Feeder**

1/2 Inch 50 Ω Leaky Feeder for Underground, In-building and Mobile Communications

**Mechanical Specifications**

Environment:	Underground and Above Ground Applications
Temperature Range:	-25 ~ +72 °C
Conductor (Inner)	4.80mm +/- 0.2mm Diameter
Conductor Material	Copper Coated Aluminium
Conductor Insulation	12.0mm +/- 0.5mm
Insulation Material	PE - Physically foamed
Conductor (Outer)	13.90mm +/- 0.5mm
Conductor Material	Corrugated copper tube with radiating slots
Jacket	16.00mm +/- 0.4mm
Jacket Material	Low Smoke Halogen Free Sheath - Colour: Black (Standard), Optional: Blue and Yellow
Cable Weight	0.19 kg /M
Single / Continuous Bend Radius	50mm / 345mm
Min Recommended Bend Radius	130.00mm
Number Bends Typical	40
Recommended Hanger Spacing	1.0m

Electrical Specifications

Frequency Range:	DC ~ 2700 MHz
Impedance:	50 Ω (+/- 2 Ω)
VSWR:	<1.28 @ 50-960 MHz, <1.35 @ 1700-2700 MHz
Velocity Ratio	86%
Insulation Resistance	5000 Megaohms (minimum) / KM
Peak Power	20.0 kW
Jacket Spark Test Voltage (rms)	5000 V

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**Electrical Specifications (cont)****Attenuation dB/100m (@ 20°C)**

150Mhz	<3.10
450Mhz	<5.60
900Mhz	<8.28
1800Mhz	<13.0
2200Mhz	<14.8
2400Mhz	<16.5
2700Mhz	<19.1

VSWR: <1.28 @ 50-960 MHz, <1.35 @ 1700-2700 MHz

Coupling Loss (dB +/- 10dB @ 50% and 90%)

150Mhz	62/78
450Mhz	70/80
900Mhz	71/82
1800Mhz	77/88
2200Mhz	76/85
2400Mhz	77/87
2700Mhz	78/88

Roll Lengths

Custom Lengths available as required - standard drum lengths 300m, 500m, 1500m

Ordering:

300M	LF12-50-1-300
500M	LF12-50-1-500
1500M	LF12-50-1-1500