

PRODUCT SPECIFICATIONS

LF78-TD-001

TeleDelta 7/8 Inch Leaky Feeder Cable

7/8 Inch $50\;\Omega$ Leaky Feeder for Underground, In-building and Mobile Communications



Mechanical Specifications

Environment: Underground and Above Ground Applications

Temperature Range (Operational): -20 ~ +70 °C

Conductor (Inner) 9.00mm +/- 0.2mm Diameter
Conductor Material Smooth Wall, Copper Coated

Conductor Insulation 22.6mm +/- 0.5mm Insulation Material PE - Physically foamed

Conductor (Outer) 24.0mm +/0 0.5mm

Conductor Material Copper tube, corrugated with radiating slots

Jacket 38.5mm +/- 0.4mm

Jacket Material Low Smoke Halogen Free Sheath (LSZH) - Colour: Black

(Standard), Optional: Blue and Yellow

Cable Weight: 0.45kg /M

Single/ Multiple Bend Radius: 250mm / 300mm

Recommended Hanger Spacing: 1.2m
Max Tensile strength: 1200N

Electrical Specifications

Operational Frequency Range: $10 \sim 2700 \text{ MHz}$ Impedance: $50 \Omega (+/- 2 \Omega)$ VSWR: <1.30 @ 500 Mhz

Velocity Ratio 88%

Insultation Resistance 5000 Megaohms (minimum) / KM

Peak Power 100.0 kW

Jacket Spark Test Voltage (rms) 8000 V

Maximum tensile resistance 2000N



PRODUCT SPECIFICATIONS

LF78-TD-001

TeleDelta 7/8 Inch Leaky Feeder Cable

 $7/8\ \text{Inch }50\ \Omega$ Leaky Feeder for Underground, In-building and Mobile Communications



Electrical Specifications (cont)

Inner Conductor DC Resistance:≤3.0 Ω /kmOuter Conductor DC Resistance:≤6.5 Ω /kmInsulation Resistance:≥5000 $M\Omega$ *kmInsulation Dielectric Strength (DC 1min):10,000VSheath spark test (AC, valid value):8000VCharacteristic Impedance (190-210Mhz):50 +/-2.0 Ω

Attenuation dB/100m +/- 5% (@ 20°C)

150Mhz	1.70
350Mhz	2.60
450Mhz	3.20
500Mhz	3.40

^{*}Higher Frequency results available on request (up to 2700Mhz)

VSWR: <1.30 @ 500 MHz

Coupling Loss (dB +/- 5dB @ 95%)

150Mhz	75.0
350Mhz	71.0
450Mhz	72.0
500Mhz	72.0

^{*}Higher Frequency results available on request (up to 2700Mhz)

Cont.



PRODUCT SPECIFICATIONS

LF78-TD-001

TeleDelta 7/8 Inch Leaky Feeder Cable

 $7/8\ \text{Inch }50\ \Omega$ Leaky Feeder for Underground, In-building and Mobile Communications



Roll Lengths

Custom Lengths available as required - standard drum lengths 300m, 500m, Black (standard) blue / yellow

Ordering: Ordering No. Approx. Shipping Weight

500M LF78-TD-01-500 260kgs 1000M LF78-TD-01-1000-1-500 490kgs

Connectors and Installation Items

Connectors:

TD-716-M: 716 DIN Male Connector for L778-TD-001 Cable TD-716-F: 716 DIN Female Connector for LF78-TD-001 Cable

Hangers and Clamps

TD-RAC-78-10: 7/8 Inch Radiating Cable Clamp (10pcs)

TD-RAP-78-10: 7/8 Inch Handing Radiating Cable Clamp (10pcs)

TD-DRA-78-50MM: 50mm Radiating Clamp Stand-odd (10pcs)
TD-DRA-78-80MM: 80mm Radiating Clamp Stand-odd (10pcs)