

PRODUCT SPECIFICATIONS

TD-158-AIR-01

TeleDelta 1-5/8 Air Dielectric Cable - LS0H

1-5/8 Inch 50 Ω Air Dielectric Cable, LS0H Flame Retardant for Broadcast, TV and Radio, HF Defence Applications.



Mechanical Specifications

Type:	1-5/8 Air Dielectric Corrugated Cable
Environment:	Underground and Above Ground Applications
Temperature Range (Operational):	-30 ~ +80 °C
Conductor (Inner)	18.6mm
Conductor Material	Heliac corrugated copper tubing
Conductor Insulation	39.8mm
Insulation Material	PE Spacer
Conductor (Outer)	46.6mm
Conductor Material	Corrugated copper tubing
Jacket	50.5mm
Jacket Material	PE, Polyethylene
Flame Resistance	Flame Retardant, LH0H
Cable Weight:	1.5kg /M
Single/ Multiple Bend Radius:	180mm / 550mm
Recommended Hanger Spacing:	0.8m (1.2m maximum)
Max Tensile strength:	1500N

Electrical Specifications

Operational Frequency Range:	0 ~ 3000 MHz
Impedance:	50 Ω (+/- 0.5 Ω)
VSWR:	<1.08 @ 87MHz - 108Mhz, <1.06 @ 550kHz - 1600kHz
Velocity Ratio:	95%
Peak Power:	270 kW

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Electrical Specifications (cont)

Inner Conductor DC Resistance:	≤1.06 Ω/km
Outer Conductor DC Resistance:	≤0.39 Ω/km
Capacitance:	70pF/m

Attenuation dB/100m

Frequency	Attenuation dB /100m	Average Power (kW)
0.5Mhz	0.043	270.00
1Mhz	0.061	198.00
3Mhz	0.106	114.00
6Mhz	0.150	81.00
10Mhz	0.194	62.00
20Mhz	0.275	43.50
30Mhz	0.350	35.50
100Mhz	0.650	19.20
200Mhz	0.900	13.50
500Mhz	1.460	8.40
800Mhz	1.870	6.60
1000Mhz	2.100	5.90

*Higher Frequency results available on request (up to 3000Mhz)

Cont.

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Roll Lengths

Custom Lengths available as required - standard drum lengths 500m

Ordering:	Ordering No.	Approx. Shipping Weight
500M	TD-158-AIR-01-500	800kgs

Connectors and Installation Items

Connectors:

TD-158EIA-AIR	1-5/8 Air Pass EIA Flange Connector, includes inner coupler, gaskets and hardware kit
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Accessories:

TD-GROUND-158	0.6M 1-5/8 Grounding Kit
TD-158-Hanger	1-5/8 Hanger Kit (10pcs)
TD-158-HOIST	Cable Hoisting Kit - Steel