



SEAMLESS ALUMINUM TUBE CABLE .500, WITH MESSENGER, 750M

General

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|-----------------|---|
| Cable Type | Series 500 |
| Inner Conductor | Copper Clad Aluminum |
| Dielectric | Foam PE |
| Outer Conductor | Seamless Aluminum Tube |
| Jacket Material | PE |
| Jacket Color | Black |
| Messenger | Galvanized Steel |
| Print | White ink, legible, cannot be wiped off by fingers |
| Packing | Plastic caps on both ends. Film stretch wrapped, 750m per wooden reel, 4 reels per pallet |

Dimensions

| | | | |
|------------------------------|-----------------|----------|----------|
| Inner Conductor Diameter | | 2.77 mm | 0.109 in |
| Foam Dielectric Diameter | | 11.43 mm | 0.450 in |
| Thickness of Outer Conductor | | 0.61 mm | 0.024 in |
| Diameter Over Jacket | | 14.22 mm | 0.560 in |
| Reel | Flange Diameter | 950 mm | 37.4 in |
| | Hub Diameter | 400 mm | 15.7 in |
| | Traverse Width | 520 mm | 20.5 in |

Mechanical

| | |
|--------------------------------|------------------|
| Operating Temperature | -40°C to +70°C |
| Bend Radius | 6"(152mm) Min. |
| UV Resistance | UL 1581 |
| Dielectric Shear Adhesion | 60lbf (267N) |
| Breaking Strength of Messenger | 1800lbs (816Kgf) |

Electrical

| | | |
|---------------------------------|----------------|-----------------------|
| Impedance | 75 ± 2 Ohms | |
| Capacitance | 50 ± 3 pF / km | 15.24 ± 0.91 pF / kft |
| DC Resistance Inner Conductor | 4.66 Ohms / km | 1.42 Ohms / kft |
| DC Resistance Loop | 5.87 Ohms / km | 1.79 Ohms / kft |
| Velocity of Propagation | 87 % | |
| Jacket Spark Test Voltage (rms) | 5000 V | |
| Return Loss 5-1000 MHz | 30 dB | |

Attenuation @ 20 °C (68 °F)

| Freq. (MHz) | dB/100m | dB/100ft | Freq. (MHz) | dB/100m | dB/100ft |
|-------------|---------|----------|-------------|---------|----------|
| 5 | 0.52 | 0.16 | 550 | 5.97 | 1.82 |
| 30 | 1.31 | 0.40 | 600 | 6.30 | 1.92 |
| 55 | 1.80 | 0.55 | 750 | 7.12 | 2.17 |
| 108 | 2.50 | 0.76 | 870 | 7.69 | 2.34 |
| 150 | 2.95 | 0.90 | 1000 | 8.30 | 2.52 |
| 211 | 3.58 | 1.09 | 1300 | 9.69 | 2.95 |
| 250 | 3.94 | 1.20 | 1500 | 10.55 | 3.22 |
| 300 | 4.30 | 1.31 | 1800 | 11.78 | 3.59 |
| 350 | 4.69 | 1.43 | 2500 | 14.52 | 4.43 |
| 400 | 5.02 | 1.53 | 2700 | 15.22 | 4.64 |
| 450 | 5.35 | 1.63 | 3000 | 16.25 | 4.95 |
| 500 | 5.67 | 1.73 | | | |

Compliance

| | |
|------------|--------------|
| Applicable | SCTE 15 2022 |
| | RoHS2.0 |
| Warranty | 3 years |

Applications:

Cables are used to distribute radio frequency (RF), digital signals and power as applicable.



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