



# Zhejiang Shengyang Science & Technology Co., Ltd.

Production Specification Date Sheet for **TZC 50097**  
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### Physical Construction:

#### CONDUCTOR:

Copper Clad Aluminum Wire (CCA) (DCR: <10.9 ohm/km)  
Diameter: 1.80mm ± 0.02mm

#### DIELECTRIC:

4.80±0.15mm Foamed PE  
Ovality: <0.15mm  
Concentricity: >95%  
Dielectric Adhesion to Center Conductor: >80N

#### SHIELD:

1<sup>st</sup> Shield: 17mm Width Bonded Al/Pet Foil With Overlap >118%.  
Nominal Diameter Over Tape: 4.86±0.15mm  
2<sup>nd</sup> Shield: 0.12mm \* 144 Ends Tinned Copper Clad Aluminum Wire (TCCA)  
Braid Coverage: 78±3%  
Nominal Diameter Over Braid: 5.34±0.15mm  
Outer Conductor DCR: <19.0 Ohm/Km  
Loop Resistance: <29.9 Ohm/Km

#### JACKET:

Black LDPE Jacket  
-40°C To +80°C  
Non-UL, UV Resistant  
Nominal Diameter Over Jacket: 7.6 ± 0.15mm  
Nominal Jacket Thickness: 0.95 mm  
Minimum Bending Ratio: >50mm  
Tensile Strength: >1,000N

### Cable Marking:

RG WIRE & CABLE TZC 500 97 YYWW BBBB 001m-500m

### Electrical Parameters:

RF Impedance: 50 ± 2 Ohms  
Capacitance: 78 pF/M  
Velocity Of Propagation: 85%  
Shielding Effectiveness: 30-1,000MHz > 90db  
Attenuation: @ 68°F (20°C) Nominal \*\*\* Benchmark: 100 m

12.0 dB @ 140 MHz	32.0 dB @ 1800 MHz
18.0 dB @ 350 MHz	34.0 dB @ 2000 MHz
23.0 dB @ 900 MHz	

### Other info:

Bulk Cable Weight: 47 - 50g/m  
Packaging: 500m/Plywood Reel, Or As Per Customer's Requirement

### Reference Documents:

RoHS Compliant/ RoHS 2- compliant

