

## YJ52454 Coax – Series 6

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### Description:

Series 6, 18 AWG 1.02 mm solid bare copper covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (100% coverage), PVC jacket (black)

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
Series Type	Series 6
AWG	18
Stranding	Solid
Conductor Diameter	1.02 mm
Conductor Material	BCCS - Bare Copper Covered Steel

#### INSULATION:

Insulation Material	Gas-injected FPE - Foam Polyethylene
Insulation Diameter	4.57 mm

#### OUTER SHIELD:

Outer Shield Material Trade Name	Duobond® IV
Outer Shield Type	Tape/ Braid/ Tape/ Braid
Outer Shield Material:	

Layer Number	Type	Material	% Coverage (%)
1	Tape	Bonded Aluminum Foil – Polyester Tape – Aluminum Foil	100
2	Braid	AL – Aluminum	60
3	Tape	Aluminum Foil – Polyester Tape – Aluminum Foil	100
4	Braid	AL – Aluminum	40

Outer Shield %Coverage	100 %
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#### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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# Detailed Specifications & Technical Data



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### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	7.54 mm
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 40°C To + 80°C
Temperature Rating	+ 80°C
Bulk Cable Weight	48 kg/km
Max. Recommended Pulling Tension	720 N
Min. Bend Radius (Install)	60.3 mm

### APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	UL444, UL13, UL1655
EU CE Mark (Y/N)	N
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Dec 2007

#### FLAME TEST:

UL Flame Test	UL 1581 VW-1
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#### SWEEP TEST:

Sweep Testing	5 MHz – 3 GHz
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#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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### ELECTRICAL CHARACTERISTICS:

Nom. Characteristics Impedance	75 +/- 3 Ohms
Nom. Capacitance Conductor to Shield	53.1 pF/m
Nom. Velocity of Propagation	82 %
Nom. Delay	4.065 ns/m
Nom. Conductor DC Resistance @ 20 Deg.C	102.0 Ohms/km
Nom. Outer Shield DC Resistance @ 20 Deg.C	19.1 Ohms/km
Min. Structural Return Loss (5~3000 MHz)	20 dB

#### Max. Attenuation:

Frequency (MHz)	Max. Attenuation (dB/100m)	Frequency (MHz)	Max. Attenuation (dB/100m)
5	1.90	600	16.73
55	5.25	750	18.54
211	10.00	870	20.04
250	10.82	1000	21.49
270	11.04	1300	24.49
300	11.64	1450	25.89

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330	12.26	1750	28.67
350	12.63	2150	31.79
400	13.61	2600	35.30
450	14.43	2832	37.74
500	15.29	3000	38.84
550	16.08	-	-

Max. Operating Voltage 350 V RMS

### PUT-UPS AND COLORS:

Item	Description	Put-Up* (metre)	Ship Weight (kg)	Jacket Color
YJ52454 010305M	75 OHM RG6 QUAD CATV/MATV	305M	18	BLK

\* Other lengths available upon request.

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